VISTA IR Camera.

Design status workshop for FDR preparation. RAL Conf Rm. 12 & 13.

Agenda.

Wed. 17th Sept.

’09.00	Arrival, COFFEE/TEA	
09.30	Introduction, purpose of meeting	Kim Ward
09.50	System design overview	Martin Caldwell
	- summary of changes since PDR, block diagram, interfaces	
10.30	*Coffee/Tea*	

Session on Design status, by sub-system

’10.45	Cryostat vessel	
11.30	FPA	
12.15	*Lunch*	
’13.00	Filter wheel	
13.45	Wave-front sensors	
14.30	Lens barrel	
15.15	*Tea/Coffee*	
15.30	Cryo-baffle	
16.00	Cryo-window	
16.30	Cryostat warm electronics & services.	
17.30	Handling equipment.	
18.00	*End of day’s proceedings*	

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Thurs. 18th Sept.

’09.00	Arrival, COFFEE/TEA	
Session on Status of Analysis models.		
‘09.15	Thermal model	Dan Tye
’10.00	Structural (Finite element) model	Ruben Edeson
10.45	Stray-light update	Tony Richards
11.15	*Coffee/Tea*	
11.30	Organise & convene splinter sessions	
	- to address open points on sub-system designs/interfaces	
12.30	*Lunch*	
Session on Software		
13.15	IR Camera software, design status	Steven Beard
14.15	Presentation on Data Flow System	CASU
15.15	*Coffee/Tea*	
15.30	Software discussion	
	(some sub-system splinter sessions may continue in parallel)	
17.00	End of day’s proceedings	

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Agenda.

Fri. 19th Sept.

’08.30	Arrival, COFFEE/TEA	
Session on AIT = assembly, integration & test		
09.00	Discussion on definition needed for FDR	Martin Caldwell
AIT plans, by sub-system		
09.20	FPA -AIT	TBD
09.40	Filter wheel AIT	Angus/melanie
10.00	Lens barrel AIT	Angus/melanie
10.20	*Coffee/Tea*	
10.40	Wave-front sensors AIT	Paul Clark
11.00	Cryo-baffle AIT	Martin Whalley
11.20	Cryo-window AIT	“
11.40	Cryostat, vacuum & coolers AIT	“
12.00	Camera-level AIT	Martin Caldwell
13.00	*Lunch*	
13.40	Instrument Software AIT	Steven Beard
Final session.		
’14.00	Reports from splinter meetings	
15.15	*Tea/coffee*	
15.30	List of actions.	
16.00	Conclusions and wrap-up	Kim Ward

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Proposed purpose of meeting:

1. To go through the camera design to make sure it is sufficiently mature & understood by the team.
2. To identify what needs to be done to get the design properly documented for the FDR pack (due on 21st Nov, 3 weeks before FDR).

The proposed agenda is in the following pages, covering 3 days 17th-19th Sept.

Session on design status by sub-system

The 1st day is devoted to presentations of design status in each of the hardware WP's. Suggested that each presentation includes :

- Overview of the design, including any software aspects
- Summary of changes since PDR
- List of any issues still open in the design
- Interface description, with respect to ICD drawing. Any changes needed to ICD before it can be signed off.
- Proposed document and drawing list for FDR pack

The FDR requirements also include integration & test plans. In the agenda these are discussed in a separate later session on AIT. This is to give a single discussion of how the hardware goes together to the complete camera.

Session on status of analysis models.

The 2nd day begins with a session on the status of the analysis models. This is not including camera performance aspects, just the lower level camera properties with reference to the PDR case (which we know was compliant on performance). As for PDR, we know that the final analysis & documentation come later than the mechanical design, and so are not available in full as yet. The suggested contents of the analysis presentations are:

- Summary of PDR analysis, its results & limitations.
- Main areas of change/added detail/scope since PDR.
- Latest results.
- Any critical issues arising from the analysis to date.
- Open issues or knock-on impact (e.g. any needed design changes) which could affect readiness for FDR.

Splinter sessions.

The idea here is to allow review & discussion of the key and open issues in each sub-system. We can decide at the time what groups to split into. We don't want to have too many groups, so a suggested split for hardware discussions is into 3 sessions: 1. Cryostat, Cryo-baffle, Cryo-window. Martin Whalley. 2. FPA & WFS, Guy Woodhouse. 3. Lens barrel & Filter wheel, ATC.

Session on Software.

This has to be on the Thursday pm. It includes presentation of the Camera SW design status, and a presentation from the data flow project.

In parallel with the SW session there is a chance to re-convene any of the splinter discussions which are not involved in the SW session.

Session on assembly, integration & test.
The FDR requirements call for test & verification plans and procedures. The purpose is to go through these plans/concepts as far as they are currently defined, from the sub-system assemblies through to camera-level testing. For each WP to describe:

- How sub-system assembly is built (at least in concept)
- Key tests on the sub-system
- Any tests that are post-poned to be done after integration on the camera
- Proposed plans/procedures documents and level of detail, for FDR.

Final session
This would be for the splinter sessions (or WP managers) to present their conclusions, again going through open issues of the design in each area. The format could be as per a weekly teleconference (but of course with visual aids!), to fit in the available time. The 'actions for FDR preparation' could feed into the normal weekly teleconf minutes.

Martin Caldwell. 8-9-03