

Minutes of SPIRE Project Team Meeting 19
SPIRE-RAL-MOM-001060
RAL 10 December 2001

Present: Matt Griffin, Eric Sawyer, Bruce Swinyard, Ken King, John Delderfield

Topics.

IBDR preparations
 ICC meeting
 JPL activities
 Test harness
 DRCU DDR meeting
 Structure DDR
 DPU DDR

1 Review of outstanding actions from previous meetings

No. PT-04-0570	Actionee	Description	Priority	Deadline	Status
01	KJK	Write WE integration and test plan	High	Oct. 2001	Still Open. Needed for IBDR. In progress

No. PT-10-0682	Actionee	Description	Priority	Deadline	Status
04	MJG	Arrange for QMW to evaluate filter suppression.	Medium	May 31	Closed, Matt to send Bruce correct version of note

No. PT-12-0726	Actionee	Description	Priority	Deadline	Status
02	EC KJK	Update the document management plan to reflect the new scheme for interaction of institute PMs with the documentation configuration control system.		June 29	Still open, action being taken This is an action on Ken

No. PT-13-0772	Actionee	Description	Priority	Deadline	Status
04	BMS DKG	Bruce and Doug to talk to John and distribute a draft list of documents showing approval status.		3/8/01	closed
06	MJG	Matt to meet with Ken to discuss the outstanding MOUs		3/8/01	Open. JPL, in progress Canada, draft proposed Others, no progress
11	ECS	Outline new document			Closed

		scheme to the consortium			
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No. PT-15-0824	Actionee	Description	Priority	Deadline	Status
02	ECS	Review product tree		12/9/01	Open

No. PT-16-0862	Actionee	Description	Priority	Deadline	Status
01	DG	Doug to inform consortium that 1030 Cernox is the baseline temperature sensor		20/9/01	Closed
02	BMS	RAL (Bruce) to write a DRCU reliability spec at the channel level which also defines a failure.		20/9/01	Closed
04	ECS	Send costs of cold vibration tests to LAM and CEA. +JPL		30/9/01	Open
08	CEA/ SAP	CEA to check when harness information is required.		30/9/01	Closed
10	RAL	Warm interconnect harness. (DRCU to DPU) One delivered with QM1, is another harness required for QM2? RAL to clarify		30/9/01	Closed, Two required
11	BMS	Put on Livelink The version of the BDA SSSD, taken by Matt from JPL		30/9/01	Open
15	SAP	Provide provisional mass breakdown for the meeting on 25/9/01		24/9/01	Open
16	MJG	Clarify with KJK when the ICC workpackages will be defined		30/9/01	Open, will be available end Jan
17	JD	Check general robustness of P/LW photometer array and take this into account in harness partitioning			Closed, Included in latest interface definition doc.

Actions raised this meeting

No. PT-19-1060	Actionee	Description	Priority	Deadline	Status
1	ECS	Define the build standard of all STM subsystems.			Open

2 Project Management Issues

JPL financial situation.

Worst case is no FS from JPL.

Possible scenario is not tested FSs .

Project team should asses acceptable levels of testing for spares.

2.1 IBDR preparations

IRD, all ECR raised, doc not updated yet.

Preparation workshop Friday 4 Jan at RAL.

2.2 Management Reporting and Control

2.3 Document change and configuration control

2.4 PA

2.5 Business Agreements

2.6 Schedule:

3 Instrument Issues

3.1 Structure

DDR held, list of main points already circulated.

Thermal design of mounts, MSSL analysis is in error by factor 2.

Options are redesign, mount or accept as is.

Propose to take no action until further thermal analysis.

3.2 Mirrors

3.3 Detectors

RF filters.

JPL say they cannot afford to design, manufacture and test the new style enclosure. This issue to be pursued by the system team.

Orientation of spectrometer detectors.

Both of these detectors are presently out by 20 degrees, because the modelling was done using a rooftop, rather than corner cubes.

Option 1, rotate pixels if they have not started fabrication yet.

Option 2, replace corner cubes with roof tops.

Option 3, do nothing and compensate using chop and jiggle in combination.

Some documentation is still outstanding.

3.4 OBS and Instrument Control

3.5 DPU

3.6 DRCU and related issues (Sap)

It may be possible for the DPU to supply some power to the DRCU.

This can be discussed at the DDR preparation meeting this week.

Connectors and harness will be discussed at the DDR preparation meeting, JD to pursue ESTEC to get a ruling on connector type.

Data interface to be defined.

4 ICC Issues

5 Meetings:

5.1 Detailed design Reviews

Draft report issued for

5.1.1 DDR summary

- Mirrors: Complete
- FTS: 22/23 Nov 2001.
- DRCU/WIH 12/13 December.
- Structure/thermal straps 29/30 Nov 2001
- DPU: 6/7 Dec
- AIV 6/9/01, delta review required, to include egse.
- EGSE: TBD, see above
- BDAs:/JFETs Complete, ICD, FMECA and PA map outstanding
- Filters/calibs: 18/9/01, Complete
- BSM: 30/7/01 not all issues closed out, delta review on 23/8/01, complete
- OBS Requirements review required. Probably Nov
- Shutter PDR: July 17, Almost a DDR, some aspects still open.
- Cooler Complete, some RIDs to be signed off.
- DRCU simulator TBD, awaiting spec from Sap.

Structure.

ECS to chair, Bruce, ESTEC, Chris Jewell, Thijs van der Laan, Chris Costelli, possibly RAL. Possibly Leicester.

DPU.

Separate reviews for the three instruments.

Ken, John or Steve Guest. Possibly someone from Saclay (Christoph). Possibly Albrecht de Jong (HIFI)

DRCU.

Stage one 12 and 13 Dec. Eric, Bruce, John. Possibly Matt, Jean Bruston may attend.

Stage two in January, board; John, Electronics expert from HIFI or PACS? Riccardo Cerulli. Otto?

IBDR

Plan reviewed

6 Progress on Open Issues

7 AIT

Tec-data have supplied an increased cost, this is after the contract has been issued.
System team to re-visit the harness to see if savings can be made.

8 AOB

Next meeting

19 December