ATLAS/T2UK/95-01

Minutes of T2-UK Meeting at RAL

13th January 1995

Present:	Peter Clarke	
	Bob Cranfield	
	Scott Kolya	
	Robin Middleton	(Chairman)
	John Strong	
	Fred Wickens	(Secretary)

1 Status Reports for PPESP

The PPESP have requested 8 page status reports from each R&D activity by 13th Feb 1995, plus a 15 minute talk at the PPESP meeting on the 6th March. The status report should include a summary of how money has been spent.

It was agreed that we should use the TP back-up document as the starting point for the status report. Some further results should be available in time for this document - several areas were briefly discussed.: RC would supply results on the ongoing link unit testing (i.e. 3 link units, including timing), further comments on the new buffer card, SCI lab tests (e.g. collision timing diagram from SK).

JS will assemble the document in MS word and would like contributions in ASCII or Word format. Diagrams should be supplied as PostScript - FW can embed the PostScript into the Word output.

JS will also supply to Tony Weidberg (who will be making the combined bid for 95/96 money) a 2 page contributions for the consolidated R&D bid - over the next 2 weeks.

In addition Andy Parker has requested input for a bottom-up document for the PPC's LHC Review Panel - input required by early March.

There was a brief discussion of bills/orders which can still be pushed through the system from the previous allocation. Manchester will bill to RAL the 50% cost of their EB66. RBNC will send details of components to be obtained through RAL for additional local boards. Manchester may also be able to bill RAL for some C40 development costs, but will not be able to bill for any PCI costs.

2 Bid for 1995

A preliminary bid list had already been drafted for the global system, but still needed to be done for the local system. Although there was uncertainly of how many of the link components would use C104s, it was agreed that since C40s were an essential back-up, the bid should assume that all links use C40s.

There was a discussion of each area shown in the figure for Example 1995 Test Beam Set-Up.

- MSGC (NIKHEF) will use AORTA connections to RHBNC embedded boards. Numbers not yet known. (The component costs of the embedded board is approx 900. Pounds).
- DS Links (NBI) will use a simple TIM base board, definition to be completed. (But should be compatible with both embedded board and LSI DBVs.) Numbers not yet known.
- Calorimeter analogue chain - connection to RD-3 via VIC link, then pass the data to the C40's via a Comms port on a VME board (?)
- TRT - Cracow will develop a new HiPPI spy - for 1995 the existing Router would probably not work without further mods and in any case an objection to the Router is that it modifies the data, which the spy would not. The spy will pass the data to the new buffers (i.e. a memory board connected to the embedded board).
- FERMI - requires an i/f to C40, which we must specify. FERMI group will build and pay for these, but we may need extra embedded boards for the connection.
- Manchester would like a couple of extra embedded boards made - for use as a new C40-SCI i/f.
- Global system - we will only provide Alpha based processors for the 1995 beam tests, but the bid should probably include say a PowerPC based processor if we want to prepare for tests in late 95 or early 96.
- Bid should include SLATE and other data sources required for beam tests.
- Do we want to include any C104 equipment - so that we can obtain our own experience with these?

The american and FERMI groups require specifications from us for the Supervisor and the Fermi i/f - before the end of the month. It was agreed that there would be a special meeting to discuss the Supervisor and related issues at RHBNC on 17th Jan at 15.00.

We need updates of the figure (probably needs splitting into several !) - showing a 4th Local line for the RD-3 connection and which items are UK responsibilities. RPM will be responsible for these and any other necessary updates to this figure(s).

JS will contact our various collaborators to establish the numbers of channels so that we can work out the numbers of each board required. The final bid list will then be put together by JS with input from all.

JS will also contact Steve McMahon in Liverpool about their possible involvement in T2UK - if positive invite to our Feb meeting.

FW will arrange a meeting with Silicon groups (Oxford/RAL) to strengthen our connections with them for future work.

3 Date of next Meeting

Video conference either on morning of 8th Feb or as already booked on 9th Feb.

RC to check availability of conference facilities at UCL so that we can decide.

4 Summary of Actions.

RC:

- Supply results of Link Unit tests to JS.
- Check availability of UCL conference facilities on 8th Feb.

SK:

- Supply SCI collision figure and text to JS.

RPM:

- Update figure of 1995 Test Beam Set-up

JS:

- Assemble documents for PPESP, Tony Weidberg and Andy Parker.
- Agree channel numbers with collaborators.
- Assemble final bid list.
- Contact Steve McMahon about future Liverpool involvement with T2UK.

FW:

- Arrange meeting with Silicon groups.
- Embed PostScript figures in final PPESP document.