HEC Action List - 1 -

Status 18.3.1999

MODULES

- Who orders Kapton cover of 125 mum on both sides of each module?
  - Kapton materials ordered by TRIUMF and MPI (50 % each).
- Shipping frames: Number and cover.
  - One per module up to the assembly of the wheels.
- Lifting beams: Number at home lab / at CERN:

  IHEP: 1 / 1 , JINR: 1 / 1 ,

  MPI: 2 / 3 , TRIUMF: 2 / 0.
  - Is this enough for the different sites at CERN? TRIUMF to send one to CERN?
- Interconnecting bar on module. Which side?
  - Remain with standard position: Right side when seen from broad side of module during stacking.

HEC Action List - 2 -
Status 18.3.1999

COPPER PLATES

- CU material: QC checks needed in addition to QC documents provided by industry?
  - R.Langstaff and A.Moiseev to correlate the different standards for yield strength in Russia and in the West.
- Cleaning process for CU plates:
  - QC baseline is cleaning by hand with subsequent ultrasonic cleaning.
  - It is recognized that complete washing by hand is in principle a reasonable way of cleaning. But how to ensure the QC of cleaning? M.Kazarinov and A.Moiseev to make proposal for cleaning control.
  - Each CU plate production site to provide a CU slug with cleaning agent to Mainz for purity measurement.
  - All bolt holes to be plugged by appropriate screws when in Lar.

HEC Action List - 3 -
Status 18.3.1999

READ-OUT STRUCTURE

- Transport buffer?

  Experience with transports of PAD boards and EST boards shows that there is a rather high overhead of effort, time and money. Do we want to buffer to arrange for fewer transports with larger amounts per transport?

  - For the time being we cannot afford to buffer since this would stop the module assembly. Maybe later.

- Capacity measurement with 100 kHz instead of 1 MHz?

  - QC document requires measurement with 1 MHz, the typical frequency of our signal read-out.
  - The groups who want to measure with 100 kHz have to demonstrate that this ensures that the module works properly at 1 MHz.

HEC Action List - 4 -

Status 18.3.1999

READ-OUT STRUCTURE (cont.)

- Thin HV tabs:

  TRIUMF observed that HV tabs recently delivered by LPI were thinner by typically 15 μm and that CU came off during LN2 test.

  - LPI to test HV tabs with 100 LN2 cycles.
  - LPI to measure thickness of standard and thin HV tabs.
  - Mainz to ask for price offer for 30 m2 of CU cladded Kapton materials from British supplier of Kapton for PAD boards.
  - The board production to be continued with thick HV tabs.
  - The existing boards with thin HV tabs to be used for assembly.

HEC Action List - 5 -

Status 18.3.1999

QC DOCUMENTS

- All QC documents_of institutes to be distributed
  - Alberta and Dubna to submit QC documents to all institutes for feedback during May LARG week.

SHAPING TIMES / FEEDTHROUGHS

- Decision on shaping time for 4th longitudinal segment (50 or 100 ns peaking time?) is open.
  - MPI to study a layout with grouping of 4th segment grouped into separate FEBs up to LARG week in May 99.
  - All groups to propose use of empty slots in feedthroughs to M.Lefebvre for May week.

CONFERENCE LIST / TALKS

  - All HEC groups to send request for talks at conferences and list of participants to P.Schacht by 15.4.99.