PP2 Status TRT

Jack Fowler – 14 December 2005
PP2 Positions
Current Status of the Platforms

• Sector 13 – seems to be OK
  – One issue is to resolve the location of the ID NMR amplifier box with relation to Pixel Type II cables
  – No issues with TRT
• Sector 3 – cable routing interference with Muon chamber
  – Reposition power boxes on platform
• Sector 1 and 9 – difficulty with Type III cable trays
  – May have to reroute Type II cables from below
  – May have to reposition boxes on platforms or change orientation
• Sector 7 – evaluation stage
Conditions for Changes to Box Position

• Type II cables are made
  – Any changes in box position must not require that cables be longer
  – If cables are too long, then space for extra cables must be available

• Power box accessibility must be maintained
  – Access space for Type III cable side must stay at 60 cm

• Box position must stay in reinforced areas on platforms
Existing layout in Sector 3

POS.2 (VIEW OF SIDE A)
Proposed layout Sector 3
Other Issues

• Mechanical interconnections
  – Complete cooling tests
  – Finalize cooling manifold connections between boxes based on test results and to inlet and outlet tubing – ID
  – Cleaning and test specs for cooling system – TC/ID
  – Sniffer tubing and connections – ID
  – Fixation of HV connectors – ID
  – Electrical insulation between boxes???

• Details of type 2 cable cooling installation – TC

• Type 3 cable trays and supports need definition
  – This includes exact cable routing - TC
  – Cable lengths and needed now to ensure delivery – TC
  – Strain relief for cables - TC
Schedule

• Mock up of sector 13 on the platform
  – SCT cables will be installed in early Jan ’06
  – Some TRT/Pixel cables can be installed (if available) after this
  – Power boxes to be installed on platform late Jan / early Feb ‘06
    • This may be a temporary installation
    • To evaluate strain relief for cables, cooling/sniffer connections and Type III cable routings
  – Platforms in sectors 3, 7, 1 and 9 to be installed in Jan ‘06

• Sequence of installation for PP2 boxes
  – sectors 13, 3, 7, 1 and 9
  – No definite time schedule set at this time