DAQ
Racks, Bins and Modules
Internal Design Review

June 17, 2002
Base Splice Enclosure

LO System

Sampler RACK

12:1 Mux

Vertex Splice Enclosure

MCB RACK

24 Multi

Hybrid Cable

Elevation Cable Bend

To MIBs ~92 Multi

Vertex Room

Pedestal Splice Enclosure

Lower Ped Room

Upper Ped Room

Azimuth Cable Wrap

12 single Mode fibers to Control Building
Vertex Splice Enclosure
• 1 Gbit/s Transceivers
• Typical Equipment used to determine RFI
• Will be installed in shielded enclosure in the Antennas
Preliminary RFI Testing of the MCB Hardware

• Chamber test with 2 of 5 Switches
  – Large # of strong discrete signals near 1GHz
  – -66 dBW EIRP @1 GHz
  – This is 89 dB stronger than −155 dBW limit

• The RFI Cabinet
  – Provided 25dB of shielding from 1-4 GHz
Areas of Investigation

- Power supply filtering
- Grounding of Enclosures
- Grounding of metal parts of Switches
- Move the MCB cabinet to Ped Room
- Cable Wrap Location