

## Task List for Preparation and installation of HFT Telescope into STAR on June 6, 2007

### Tasks prior to June 6 installation:

- Order carbon fiber tube for telescope push-stick.
- Fabricate new push-stick.
- Procure 25' extension CAT5 cables for Xilinx JTAG, Altera JTAG, Latchup reset, serial out and spares.
- Gather serial cable extension for placement in magnet (25')
- Gather Latch-up cable extension (25')
- Test above extension cables extensively at LBNL.
- Clearly label all cables.
- Procure cable for extension of power cable (is this necessary or is power already run to the electronics box location?)
- Get permission to run cables along the "I" beam support under the beam pipe.
- Get agreement to move beam counters to allow installation of our telescope.
- Generate scripts for full remote data taking and test.
- Procure a backup power supply and cables to power the electronics box to have ready if and installation problems arise.
- Re-investigate AI box with polyfuses and diodes. Does it pass enough voltage? Should we change it?
- Gather a tool kit to take with us to BNL. It should include – screwdrivers, hex drivers, pliers, wrenches, wire cutters, wire strippers, tie wraps, tape, assorted nuts and screws, 5 minute epoxy and mixing sticks, DVM, small oscilloscope, carrying bag.
- Bring extra Stratix, motherboard, daughter card, ddl, etc. to BNL to serve as spares for the installation.

### Sequence for installation at BNL:

- Test everything outside of cave at BNL.
- Enter cave.
- Begin removal of beam counters.
- Glue push stick into telescope with 5 minute epoxy.
- Install CAT5 extension cables and test.
- Install serial and latch up cables.
- Install new power breakout box and power extension cable (if necessary) and test.
- After beam counters are removed and testing of jumper extensions is complete, install telescope in STAR magnet and electronics box in holder.
- Test all connectivity and functionality.
- If everything works, reinstall the beam counters.

### Post install tasks

- Backup electronic logbook at BNL.
- Generate documentation for local and remote running.
- Contact Tonko about adding our data to the STAR data stream.