

# WireScannerMeeting-May-23-06

## Wire Scanner and Collimator Meeting Minutes, May 23, 2006

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### Attendees:

James Bong,	René Correa,	Tim Montagne,
Tom Porter,	Patrick Krejcik ( <i>absent</i> ),	Doug Murray
Hamid Shoaee	Doug McCormick	Bob Fuller

### Agenda:

1. Status updates; wire scanners, collimators, and BC1 motion.
2. Procurement status
3. Diagram status
4. Software status
5. Look at updated schedule
6. Issues and Concerns

### Previous Actions:

1. **James** will order the remaining motion control equipment for injection commissioning.
2. **Doug** will request 4 ethernet ports for collimator and beamline motion testing in Bldg 26.

### New Actions: (*summary; see details below*)

1. **Doug** will check that existing Linac collimators will be instrumented with EPICS controls.

### Minutes:

1. Review locations of wires and collimators
  - a. We reviewed the location of wire scanners and collimators on a map of the LCLS areas.
  - b. There was some discussion about existing collimators in sectors 29 and 30. ^ **Action:** **Doug** will check that existing Linac collimators will be instrumented with EPICS controls. ^
2. We reviewed the schedule and upcoming tasks:
  - a. James is updating the electrical interconnect and block diagrams for wire scanners.
  - b. Tom reminded us that switches will be needed on collimators, 5 switches in total.
  - c. We discussed cable lengths, and Doug McCormick asked about LVDT signals. It was pointed out that the Highland LVDT module compensates for cable lengths, after proper calibration.
    - i. He mentioned that results from the step-counting method of measuring position are often within comparable range of the Sony magnescale measurements.
  - d. James will check on the status of our hardware order; he must also delete the Highland component from the Hytec order, and then order Highland equipment separately.
  - e. Bob reminded us that we need to have the cable plant understood by end of May. Cables must be identified and entered. James said his work is 75-80% complete, but needs naming scheme information.
  - f. Doug McCormick has spoken with Photonis and Hamamatsu regarding specs. He mentioned that Philips has sold their tube company which is now known as Photonis. He said the price is \$335 for PMT and base from Hamamatsu with 4 - 6 week delivery. Bob asked if a Hamamatsu order implied extra delay because they're a foreign vendor. Doug thought not, but we agreed it was worth looking to buy from vendors with representatives in this country.
  - g. Doug then asked when the detectors and cabling were needed. Bob pointed out that the downtime is from Aug 1 to Nov 31.
  - h. Doug then mentioned he has a light box for testing. Nice to test Caen equipment against Camac readout.
  - i. Tim mentioned he expects to have a new wire scanner assembly in mid June.
  - j. Doug McCormick will ask Tim about stands outside of the meeting time.
3. Rene said the design review for the first collimator was held last Thursday. He mentioned that some changes are forthcoming.

4. We discussed software status. Doug Murray mentioned that the software for the motor, LVDT, Industry Pack carrier and charge integrating adc is all underway.
5. Doug McCormick estimates he is halfway done with first ion chamber, fast ion chambers are ready.
  - a. He also suggested we talk with Arturo to use the same gas lines as the PLIC.
6. Tom gave some motor information to Tim regarding the KML62 motor. We are waiting for delivery to test with wire scanners.
  - a. He pointed out that non-teflon wiring is a problem. He is expecting the motor within 2 weeks.
  - b. The LVDT for BC1 has been ordered.
7. Rene also mentioned that the BC1 collimator might not be available until August.