

For discussion of ATF2 beam time requests

SLAC team

October 1, 2008

November 08

- Suggestions from (Responsible are): Doug and Janice:
- 10/31-11/9 - mover & BPM system checkout
 - no beam or when beam is not in ext line
- 11/10 – assume it is the week the beam gets out of the DR. After beam is established to the end of extraction line, work on mover/BPM calibration
 - Need 3 shifts with beam
- 11/17 - assuming all's going well, continue with checkout of mover BBA software
 - Need 2 shifts with beam
 - not consecutive, preferably one early in the week (Tue or Wed) and one later in the week (Thu or Fri)

December 08

- Suggestions from (Responsible are): Glen White:
- **Flight Simulator tests**
 - **Request = 1 dedicated shift**
 - other flight simulator tests will be done in parallel to other work

December 08

- Suggestions from (Responsible are): Steve Molloy:
- **Studies of the problematic extraction BPM**, record signal on extraction BPMs due to high power RF pulse from kicker, analyze data with/without beam to find best way to filter out kicker pulse
 - **Request = 1 shift (parasitic)**
 - **Beam conditions = No beam in the EXT or DR, then some time with single bunch, 1.56 Hz, in the EXT.**
- **Kicker eddy currents**, Investigate the possibility of the large dB/dt of the rising edge of the extraction kicker waveform inducing spurious sextupolar fields
 - **Request = 1 shift**
 - **Beam conditions = Single bunch, 1.56 Hz**
- **Flight Simulator tests**, Deployment and testing of the beamline modeling tools developed with the FS
 - **Request = 1 shift**
 - (in addition to the shift Glen has already requested)
 - **Beam conditions = Single bunch, 1.56 Hz**

December 08

- Suggestions from (Responsible are): Mauro Pivi:
- **Beam induced measurements of the QM7R magnet error**
 - **Request = 1 shift**
 - (provided a good method to measure it will be selected)
- **Beta matching DR=>EXT currents**
 - **Request = 1 shift**
 - (dedicated?)

December 08

- Suggestions from (Responsible are):
 - Andy Wolski
 - SLAC: Mark Woodley:
- **Complete set of BBA measurement in Damping Ring**
 - **Request = X shift**
 - number of shifts TBD
 - If the number of shifts large, should it happen in 09?
- Discussion:
 - Complete set of BBA measurements for DR should be done before a lot of tuning is done
 - We have a rather slow process for doing BBA
 - New BBAs were done recently by Okugi-san and others using an ATF-created package
 - It would be useful to hear details of how Okugi-san's package works in order to decide how to proceed.
 - It's possible that data collected is the same for both techniques, and that we could analyze it both ways as a cross-check