

# Machine Studies

## Draft Schedule for Run03-1, 2007

September 25 0800 – October 2 0800

| Time                      | Descriptions   | Studiers            | SR Status               |
|---------------------------|--|---------------------|-------------------------|
| <b>Monday, 9/24/07</b>    |  |                     |                         |
| 1000-1300                 | First injection and preliminary orbit recovery                     | Emery Sajaev<br>OPS | Stored beam & injection |
| 1300-2400                 | RF conditioning.   | OPS                 | Stored beam & injection |
| <b>Tuesday, 9/25/07</b>   |  |                     |                         |
| 0000-1600                 | RF conditioning (continued).                                       | OPS                 | Stored beam & injection |
| 1000-1200                 | Initial S35B:M pinhole camera setup. Parallel to RF conditioning.  | Yang                | Stored beam & injection |
| 1500-1800                 | CPU checkout. Part of it parallel to RF conditioning.              | Emery               | Stored beam & injection |
| 1800-2000                 | BM xbpm and rf bpm checkout.                                       | Hahne<br>Erwin      | Stored beam & injection |
| 2000-2400                 | BPLD validation.   | Bui<br>Brill        | Stored beam & injection |
| <b>Wednesday, 9/26/07</b> |  |                     |                         |
| 0000-0100                 | BPLD validation (continued).                                       | Bui Brill           | Stored beam & injection |
| 0100-0300                 | Collect RTFB data.   | Sun                 | Stored beam & injection |
| 0300-0500                 | OPEN   |                     |                         |
| 0500-0700                 | Investigate temperature sensor in S4B:V1 and back-flush S22:23 R1. | Puttkammer          | NO BEAM                 |
| 0700-1100                 | ID xbpm checkout.  | Hahne               | Stored beam & injection |
| 1100-1900                 | Initial orbit recovery. Top-up 24 and 324 patterns.                | Decker<br>Sajaev    | Stored beam & injection |
| 1900-2400                 | OPEN   |                     |                         |

| Thursday, 9/27/07 |   |                  |                         |
|-------------------|---|------------------|-------------------------|
| 0000-0300         | Reference lattice work.                             | Emery<br>Sajaev  | Stored beam & injection |
| 0300-0600         | Setup corrector FF for datapool.                    | Emery            | Stored beam & injection |
| 0600-1000         | Linac PEM validation.                               | Pasky            | No injection            |
| 1000-1100         | Verify orbit controllaw PV test.                    | Shang            | Stored beam & injection |
| 1100-1500         | P0 feedback study.                                  | Yao<br>DiMonti   | Stored beam & injection |
| 1500-1900         | Booster tune measurement test.                      | Yao Gold<br>Feng | Stored beam & injection |
| 1900-2400         | 1ID, 2ID, and 23ID x bpm commissioning.             | Decker           | Stored beam & injection |
| Friday, 9/28/07   |   |                  |                         |
| 0000-0300         | 1ID, 2ID, and 23ID x bpm commissioning (continued). | Decker           | Stored beam & injection |
| 0300-0800         | Beta function correction.                           | Sajaev<br>Xiao   | Stored beam & injection |
| 0800-1200         | End to end shutter test.                            | SI group         | No Beam                 |
| 1000-1100         | Waveguide switch. Parallel to shutter test.         | RF group         | No Beam                 |
| 1200-1800         | Multibunch instability study 1.                     | Harkay           | Stored beam & injection |
| 1800-2200         | Try new fill patterns.                              | Emery<br>Harkay  | Stored beam & injection |
| 2200-2400         | CPU checkout.                                       | Emery            | Stored beam & injection |
| Saturday, 9/29/07 |   |                  |                         |
| 0000-0100         | CPU checkout (continued).                           | Emery            | Stored beam & injection |
| 0100-0300         | PEM testing with beam.                              | OPS              | Stored beam & injection |
| 0300-1000         | OPEN  |                  |                         |
| 1000-1600         | Multibunch instability study 2.                     | Harkay<br>Yang   | Stored beam & injection |

|                         |  |                     |                         |
|-------------------------|--|---------------------|-------------------------|
| 1600-2400               | OPEN   |                     |                         |
| <b>Sunday 9/30/07</b>   |  |                     |                         |
| 0000-0600               | Top-up operational readiness verification.   | OPS                 | Stored beam & injection |
| 0600-0900               | OPEN   |                     |                         |
| 0900-1300               | Test new FO beam loss detector at S9.  | Yao<br>Dooling      | Stored beam & injection |
| 1300-1700               | RTFB, datapool functional checkout.  | Decker              | Stored beam & injection |
| 1700-2400               | OPEN   |                     |                         |
| <b>Monday 10/01/07</b>  |  |                     |                         |
| 0000-0300               | OPEN   |                     |                         |
| 0300-0600               | Bunch purity monitor system setup.   | Yang                | Stored beam & injection |
| 0600-0800               | Final S35B:M pinhole camera setup.   | Yang                | Stored beam & injection |
| 0800-1600               | Final orbit, x bpm scripts testing. With 30 min. pause for waveguide switch around 1000. | Decker<br>Schroeder | Stored beam & injection |
| Around 1000             | Waveguide switch. Exact time upon agreement with G. Decker.                              | RF group            | NO BEAM                 |
| 1600-1900               | Sextupole measurements with beam.  | Emery<br>Sajaev     | Stored beam & injection |
| 1900-2200               | Setup 16 mA single bunch.  | Emery<br>Sajaev     | Stored beam & injection |
| 2200-2400               | Optimize injection.  | Emery<br>Sajaev     | Stored beam & injection |
| <b>Tuesday 10/02/07</b> |  |                     |                         |
| 0000-0200               | Optimize injection (continued).  | Emery<br>Sajaev     | Stored beam & injection |
| 0200-0600               | Model measurement.   | Sajaev              | Stored beam & injection |
| 0600-0800               | Prepare for user Operations (24 singlets, Top-Up, S32 RHB)                               | OPS                 | Stored Beam & Injection |