

# 2006-05-03 Recycler Department Meeting

Wednesday, May 03, 2006  
2:00 PM

- All meetings are on Indico.fnal.gov.
- Recycler Work
  - Damper installation
    - Q527-Q601
      - Device installed
      - Electrical hookup required
  - Flying wire installation
    - 620 Region
      - Devices installed
      - Electrical hookup installed
  - RF HL modifications
    - Water Cooling
    - Auto RF Leveling
  - Magnet Moves
    - /q226
    - Q228
    - Q310
    - Q312
    - Q314
    - Q324
  - CE bulk supply rework at RR50 house.
    - Ran into some problems.
    - If cannot resolve, will revert. This is all upstairs.
  - Vacuum
    - R32 Line
      - Fond bad ion pump on differential pumping station
      - Possible sigature of an air leak up on main injector side of transfer line
    - Stochastic Cooling tanks
      - Signature of an air leak.
- Main Injector
  - Wide aperture quad installation all of the lambertson locations.
- Ecool Work
  - SF6 skid upgrade - 67%
  - Shaft replace - done
  - Vacuum work
    - Vent an inspected the gun assumbly - done
    - Repace IGa06 - done
    - Replace TSP cartraige.
  - Instrumentation
  - Power Supply Work
- Activities during the last 2-3 weeks of shutdown (May 8th-23)
  - Friday, May 12th
    - Safety System Tests of the MI-31 Pit (Pelletron)
      - Secure between 12:00 and 1300
      - Test system between 1300 and 1600
  - Monday, May 15th
    - Ecool
      - Obtian operating permits for Pelletron
      - Commence HB conditioning
      - Restart Ubend beam operations

- MI/RR
      - 1700 door cores are changed
        - ◆ We are back to our standard key system
      - Power switch back to KRSS
  - Tuesday, May 16th
    - Supervised access from 0800 to 1700
    - 1700 MI tunnel secured for ESS test
  - Wed/Thurs
    - 0000-0800 MI Buss hi-potting
    - Supervised access from 0800 to 1700
    - 1700 MI tunnel secured for electrical system test
  - Friday Sunday
    - MI PS testing
  - Monday, May 22nd
    - Regular 0900 meeting
    - Beam to MI
      - Access for magnet moves
    - Ecool
      - Beam to cooling section
        - ◆ Establish beam to cooling
        - ◆ Commission YAG/OTR camera systems
        - ◆ Lattice function measurements
        - ◆ Ect...
  - Thursday, May 25th
    - Establish protons to RR.
- System Checkouts
  - Instrumentation
    - BPM/Clearing electrodes
    - Flying Wire
    - Toroids/DCCT
    - Schottky pickups (21MHz, 79MHz, 1.75GHz)
    - RWM
    - Multiwires
  - Correction Elements
    - Field polarity checks
  - Cooling system
    - Tank motion control
    - RF cable
    - Water connections
    - Etc..
  - Shielding
  - RF
    - LLRF state checks
- Commissioning (RR)
  - Start on May 25th
  - Shifts
    - Manned by 2 students
    - Two shifts per day
    - AM 0800-1400
    - PM 1400-2000
  - Milestones/criteria
- Startup Sequence
- Major Studies Lists
  - Orbit Studies
  - Lattice Measurements
  - Instrumentation
  - Cooling Studies
  - Damper Commissioning
  - RF

- Recycler Performance Criteria
- Milestone Definitions
- Milestones
  - 5/24 - base vacuum
  - 5/26 - vacuum and machine admittance
  - 5/29 - mi to rr trans effo 85%, round trip < 3pi growth
  - 6/8 first pbar transfer to RR
  - 6/9 rapid stacking performance with 100e10
  - 6/12 - equilibrium properties at 100-200e10
  - 6.14 - extraction commissioned.