May 31, 2001 [BLUE means done, PINK means in progress, red – not yet done]

START UP TASKS for FIRST FEW DAYS OF OPPERATION

1. ATR beam to the W-dump (Woody Glenn)

1.1. BPM – Todd Satogata

1.2. Orbit Correction – Vadim Ptitsyn

1.3. Magnet Manager – Jorg Kewisch

1.4. Beam Profile Monitors – Flags – Steve Tepikian

1.5. DCCT Beam intensity monitors – Leif Ahrens

1.6. Orbit differences – Vadim Ptitsyn

1.7. Emittance measurements – Nick Tsoupas

1.8. Dispersion Measurements – Woody Glenn

1.9. Loss Monitors – Mei Bai

2. POWER SUPPLIES PREPARATION - George Ganetis

2.1. Turn on and adjust each new and old power supplies with the real inductance.

2.2. Adjust the quench detection. George Ganetis.

2.3. Adjust the quench protection and establish a stable quench link. George Ganetis

2.4. Check Trim quad and D0 power supply fix. Don Bruno.

2.5. Tune the Main quad and dipole power supplies. Karl Schultheiss.

2.6. Commission 168 new power supplies with the real inductance load. Jon Sandberg.

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- *2.7. Train the DX magnets. George Ganetis.*
- *2.8. Finish the Gamma-t installation, test, and tune up. Jorg Kewisch.*
- *2.9. Reading of the leads' voltage – check the power supply polarity. George Ganetis and Dejan Trbojevic.*
- *2.10. Tests with: BarShow, PS watch, PS-all, PS compare, Snap ramp, Post Mortem. Al Marusic, George Ganetis, Tom Clifford, Johannes van Zeijts.*
- *2.11. Test the Alarm and PS watch – Tom Clifford and John Morris.*
- *2.12. Correction system check: PS watch – Vadim Ptitsyn.*
- *2.13. Quench Recovery program – George Ganetis, Tedd D'Ottavio, Bart Frak.*

3. INJECTION - Wolfram Fischer

- *3.1. Kickers – timing: W. Fischer, Arlene Zhang*
  - *3.1.1. Adjust kickers' timing – Wolfram Fischer*
  - *3.1.2. Adjust the strength – orbit closure (Wolfram Fischer)*
- *3.2. Orbit Correction – Vadim Ptitsyn*
  - *3.2.1. Scan BRHO and Measure Dispersion function*
  - *3.2.2. Make the first turn (tune the orbit) (Vadim Ptitsyn)*
  - *3.2.3. Orbit differences (Vadim Ptitsyn)*

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3.2.4. Close the orbit after BPM multi turn is available. Wolfram Fischer.

3.3. BPM's –Todd Satogata

3.3.1. Measure betatron functions (rms)

3.3.2. Adjust timing

3.4. Reduce Losses – loss monitor system – Mei Bai

3.5. RF capture – Mike Brennan

3.5.1. Measure revolution frequency

3.5.2. Capture: adjustments to AGS BR

3.5.3. Injection phase correction

3.5.4. Synchrotron frequency check

3.5.5. Set zero bunch marker

3.5.6. RADIAL SCAN – Measure Dispersion - Steve Tepikian, Wolfram Fischer.

3.6. Tune Meter – Angelika Drees, Robert Michnoff

3.6.1. Adjust the injection tune by looking the first turn decoherence.

3.6.2. Measure tunes after injection (by the tune kicker)

3.7. Chromaticity – Steve Tepikian

3.7.1. Adjust the chromaticity:

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3.7.1.1. Correct the systematic b_2 by the sequencer and ramp editor.

3.7.1.2. Set the chromaticity by the using the radial loop.

3.8. Decoupling – Fulvia Pilat

3.8.1. Global correction.

3.8.2. Local correction.

3.9. Quad polarity check – Johannes van Zeijts and Vadim Ptitsyn, Fulvia Pilat:

3.9.1. TRIM QUAD CHECK (Operation crew)

3.9.2. IR quad check (Q9-Q1)(Operation Crew)

3.9.3. Skew Quad check

3.10. Tune feedback – Peter Cameron

3.11. Transverse damper – Angelika Drees

3.12. Measure Transverse Beam Profiles – Roger Connolly

3.13. Measure Longitudinal Beam Profile – Christoff Montag, Roger Lee, Johannes van Zeijts

3.14. ABORT TUNE-UP at injection– Leif Ahrens

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