



BRAHMS Infrastructure Operations, and Detector Support

Dana Beavis

1/26/00

BRAHMS Collaboration Meeting Jan. 24, 2000

SUMMARY

- **Update on Infrastructure**
- **Access to IR**
- **Detectors (general)**
- **Detectors (specific)**

Utilities

- **Civil Work for new power substation complete**
 - Completion by FY2001 run
 - Funds from CA Dept.
- **Gas Pad in Progress**
- **Paving Area in the Spring**
- **Utilities to back Platform comple**

Magnets

- **Run and Test in Progress**
 - Each magnet tested at full power
- **Magnet settings for Run**
 - D5 full field
 - D1 to D4 half field
 - String test will test all magnets operating at run setting
- **Watch for magnet lights**
- **Magnet off keys to be installed**

Misc. IR Items

- **2 pan and zoom video cameras**
- **Safety system**
 - FEH temp.
 - Fire wire
 - Power off crash buttons
 - Magnet off keys (to be added)
- **Be beam pipe installed and baked-out**
- **Remote power off/on for FB crates**
- **Remote readout of platform positions progress (video displays to be placed slow controls room)**

IR Access

- **Access before beam**
 - **Need to renew RHIC Users training**
 - **BNL personnel will receive a blue card (all gates)**
 - **Non-BNL will get a pink card (Roll-up door labyrinth gate)**
 - **Extra Blue card for access if needed**

IR Access

- **Access after beam**
 - **Need tld to enter**
 - **Need RHIC users training**
 - **Removing items from IR**
 - **Need an activation check**
 - **Can be placed in designated cabinet in cnt-hs**
 - **Only an RCT can release materials**
 - **Restricted Access—access card**
 - **Controlled Access—CA Key from MCR**
 - **Gate watch**
 - **Remote controlled access**

Operations

- **Run Coordinator-meets with other ex to coord. Activities**
- **Shift leader with required training—B of required procedures**
 - C-A Dept. determines necessary procedure
 - Procedures to handle emergencies-LEC
 - Exp. Procedures to control exp.
- **Required procedures (C-A OPM)**
 - Moving platforms
 - Operating magnets
 - Emergency response
- **Experimental Procedures**

Detectors (general)

- **Required Resources**

- **Provide a written list of all desired resources**
 - Includes tech. help, cables, electronics, surveys etc.
 - List should provide details
 - Update the list by adding items to bottom
 - Send to me via e-mail
- **Please be patient**
 - Some resources shared by all experiments
 - Items are prioritized
 - Good beam is a ways off

Detectors (general)

- **Safety approval required for each detector**
- **Is there a complete set of documentation at BNL (office files)**
 - Sufficient for repairs
- **Documentation for operating detector counting House**
- **Operating instructions**
- **Monitoring instructions**
- **Redress cables where messy**

Detectors (specific)

- **ZDC**

- **New tray under BFS for cables**
- **Several cables may have been damaged**
- **Delay lines in FEH must be redone**
- **Safety approval**
- **Documentation etc.**

- **Beam-Beam**

- **Safety approval**
- **Additional LRS 4032**
- **Additional HV cables needed**
- **Installation Complete**

Detectors (specific)

- **Multiplicity array-Tiles**
 - Safety approval
 - HV cables may be a problem
 - Installation complete
- **Multiplicity array-Si**
 - NO Safety approval-”walk-thru”
 - Installation work remaining
 - After collisions a shutdown for detectors to install sensitive items such as Si

Detectors (specific)

- **TPC's**

- **Safety approval**
- **Re-installation requirements**
- **Velocity monitors**
 - **safety approval needed**
 - **Installation required**

- **H1**

- **Installation complete (cables need redressing)**
- **Safety approval**

Detectors (specific)

- **C1**

- **Safety approval**
- **Installation complete**

- **H2**

- **Safety approval**
 - **Mech. Inspection, frame bonding**
- **Electrical isolation**
- **Mechanical installation in progress**
- **Electronics installed**

Detectors (specific)

- **BFS Drift Chambers**

- **Detectors in IR**
- **Safety review required**
- **Cables needed**
- **Installation of stands in progress (ready for 2/6/00)**
- **Determine gas rack locations and install gas lines**

Detectors (specific)

- **RICH**

- **Cables partially installed**
- **Fabrication and installation in progress**
- **ADC paddle cards being fabricated**
- **Safety review required**
- **Mechanical installation after H2 installed-- will do a test fit**

Detectors (specific)

- **TOFW**
 - Electronics installed
 - Frame installed and cabling nearly comp
 - PMTs being installed on modules
 - Safety approval
- **Calib. Drift chambers**
 - Safety review required
 - Design/fab. Stands
 - Installation, cables,...

Comments

- **A lot of support work for the detectors left to do**
- **Work will be completed with a balance of priority and available resources**
- **Expect all items to be completed this physics run**