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# MTA Installation Meeting

## February 21, 2007

### Agenda

- 1) Progress report (Fernanda+Carol)
- 2) Floor Plan layout (Fernanda+Larry)
- 3) AOB

#### Key

**Red** – critical

**Orange** – warning

**Green** – good to go

# Progress Report – Magnets

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- 14 Quadrupoles
  - 9 Green Quads
    - 12 retrieved from Booster tunnel
    - Send to IB2 for tests (mec., elec.,hydraulic) ✓
  - 5 SQA Quads → Old 8GeV line has 5 SQA's. Need to be dismounted and removed from the tunnel. No guarantee to get them 😞!
- 5 Cooling Ring Dipoles (CR)
  - 4 CR sitting in the Booster staging area
  - Few issues found... ✓
  - Sent to IB2 for replacement
- "C" Magnets
  - Delivered date: March

# Progress Report – Power Supply

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## ☐ 200 MeV Quads

### ■ Requirements: 9 (40/50)

#### ☐ Reuse the old 400MeV HP's (40/50)

- 9 supplies + 3 controllers (It will require some adjustments)
- Have enough for ~ 100% spares...they may need repair

## ☐ SQA's Quads

### ■ Requirements: 5 (40/50)

#### ☐ Reuse the old 400MeV Power Ten (80/125)

- 5 supplies + 2 controllers (4 supplies/module)
- Have enough for ~ 100% spares.

# Progress Report – Power Supply (cont.)

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## ☐ Cooling Ring Dipoles

- Requirements: String of 4 CR (18/711)  
Single CR (18/400)

- For the string of 4 CR use a Trans Rex (200/1200) ✓
  - Supply has been moved from BEG to Linac Klystron gallery
  - Final destination: Linac Lower Level (South end) by the end of this week (?)

- ☐ For the single CR one can use a Power Ten (20/500) ??
  - If **YES** we have the supply and the controller (rack mounted!)
  - If **NOT**... back to the streets...

# Progress Report - Instrumentation

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## □ Instrumentations/Diagnostics ???

- BPM's: ~ 11 Booster style BPM's available with varying types.
- MW's: 4, 8GeV style  
1, 400MeV style } Need new paddle
- Toroids: 4, 1 large aperture (5in ?)
- Vacuum Valves: 2, 4in. Vat valves
- 2 Ion pump
- 1 Turbo Cart

# Progress Report

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## ☐ Water Skid

- Informed M. Ball about the project needs
- He will have LCW information in  $\sim 2$  wks

# Floor Plan Layout

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- ❑ Important to decide where the racks will be located in order to determine power distribution, cable lengths, cable tray lengths inside linac enclosure, etc.
- ❑ Thumbnail rack configuration suggested 10 racks
- ❑ Ideal location would be Linac Gallery South end
  - Proximity of location to MTA line. 😊
  - Cable penetrations are available. 😊
  - Cable trays in the gallery are available. 😊
- ❑ Problem: This area is used to store Linac spare parts 😞 !!!
  - Larry will explore alternative options for storage.
    - ❑ If storage is limited, a possible solution would be ½ racks remain upstairs, ½ go downstairs...
    - ❑ The worst case scenario, **ALL** racks go downstairs.
      - Racks located downstairs raise problems with cable lengths, penetrations accessibility/convenience

# Possible Floor Plan Layout

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