

PHENIX

WEEKLY PLANNING

6/12/2008

Don Lynch

Shutdown '08 Schedule

| | |
|---|---|
| <p>Mu Trigger, RPC Prototype Installation, New Beampipe, CM Crane, Sta. 1 and MMN Scaffolding Reviews RPC Prototype C tests (in tent) Install/field fit CM access stairs Build MMN scaffolding Build Sta. 1 N. scaffolding</p> <p>RPC Prototype D tests (in tent) Design RPC installation fixtures & MuTrigger FEE platforms Prep work for Mutrgr platforms (water/elec) Fan Tray maintenance Prep work for RPC proptotype install move (7) MuID pipes move gap 5 south cable tray Prep RPC Proto, MuTrggr FEE N&S Racks MuTr Decapacitations (Sta. 1 N and MMN)</p> | <p>All Done, Action Items in progress in progress (fill-in) June in progress July</p> |
|---|---|

Technical Support 2008

Shutdown '08 Schedule, cont'd



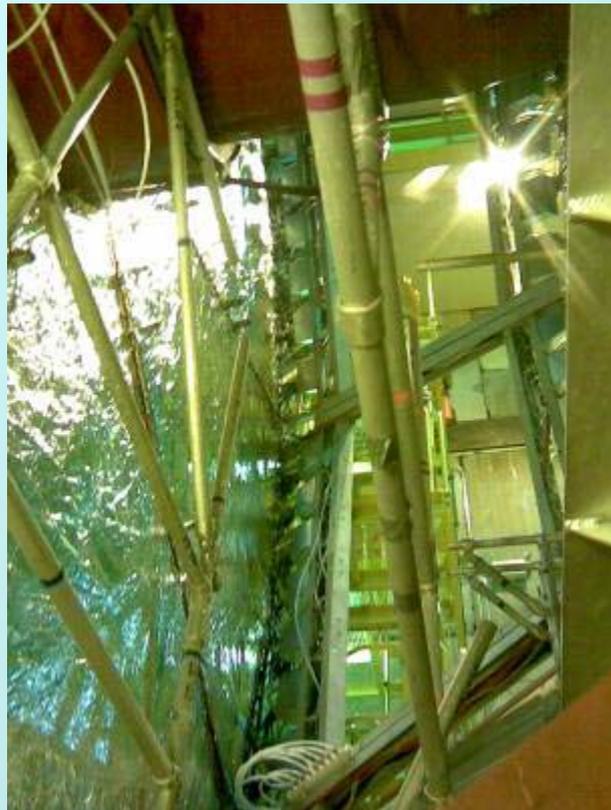
Technical Support 2008

| | |
|---|--|
| RPC engineering & safety review | ~mid July |
| MuTrigger FEE N Install | Aug. - Sep. |
| Install MuTrigger N cooling water & air | Aug. - Sep. |
| RPC prototype gas system | July - Aug |
| Move shielding for RPC prototype installation | July - Sep |
| RPC prototype cable routing & support | July - Aug |
| Modify crystal palace & vapor barrier | July - Aug |
| Install MuTrigger FEE N platform&Rack | July 15 - Aug 1 |
| RPC prototype install | Sep. - Oct. (RPC2 - PHENIX) (RPC3 - C. Pearson) |
| Install RPC prototype rack in tunnel south | Sep. |
| Install Mutrigger FEE's in MMS for RPC test | Sep. |
| Install MuTrigger FEE South platform | Sep. |
| Install MuTrgr S rack cooling & electric | Sep. |
| HBD Install | Sep. - Oct. |
| Connect electronics/gas/water/air for RPC | Sep. - Nov. |
| PC1 west work (needs planning) | Sep. - Nov. |
| CM Crane Install | Oct. |
| DC East?/West Repairs | Oct. - Nov. |
| Replace tunnel shielding | Nov. (C. Pearson) |

Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)
 Gap 5 north piping and cable tray re-loc.
 Gap 2 north cable tray & crate re-mounts
 Prep for shutdown 2009
 Prep for run 9
 Close shield wall start shifts
 Start physics

Oct. - Nov
 Oct. - Dec.
 Oct. - Dec
 Nov. - Dec
 Dec
 Dec.
 Jan 1





Confined space training is required regardless of lampshades

Atmospheric testing not required with 4 lamp shades off

Class 2A certification is required (see WP sheets)

Entry log is required.

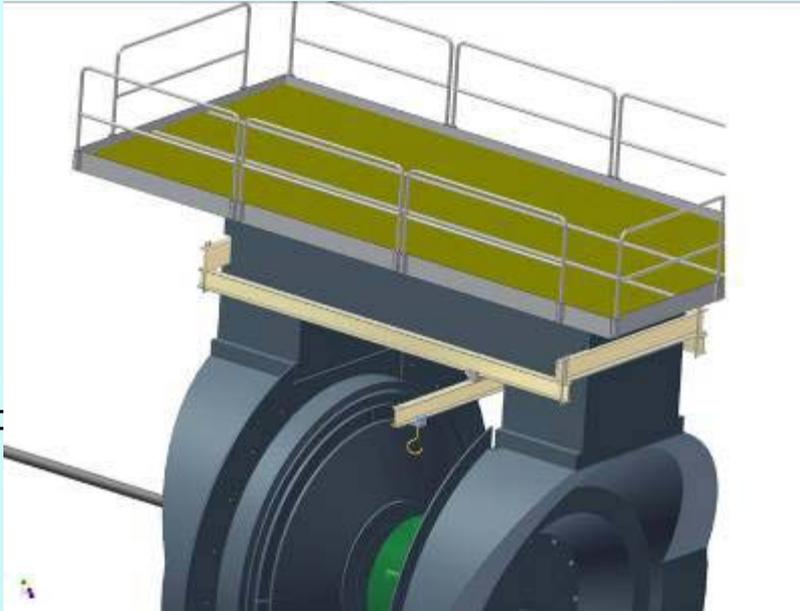
Trained back up watch person required.

Challenge exam is now available on the web. Only good for those who have previous BNL training. (Trying to get a waiver.)

No study guide available, but CA has compiled the applicable SBMS pages which I will make into a pdf and send to anyone who needs it.

If necessary we can set up as many special classes as we need.

CM Crane, Station 1 scaffolding

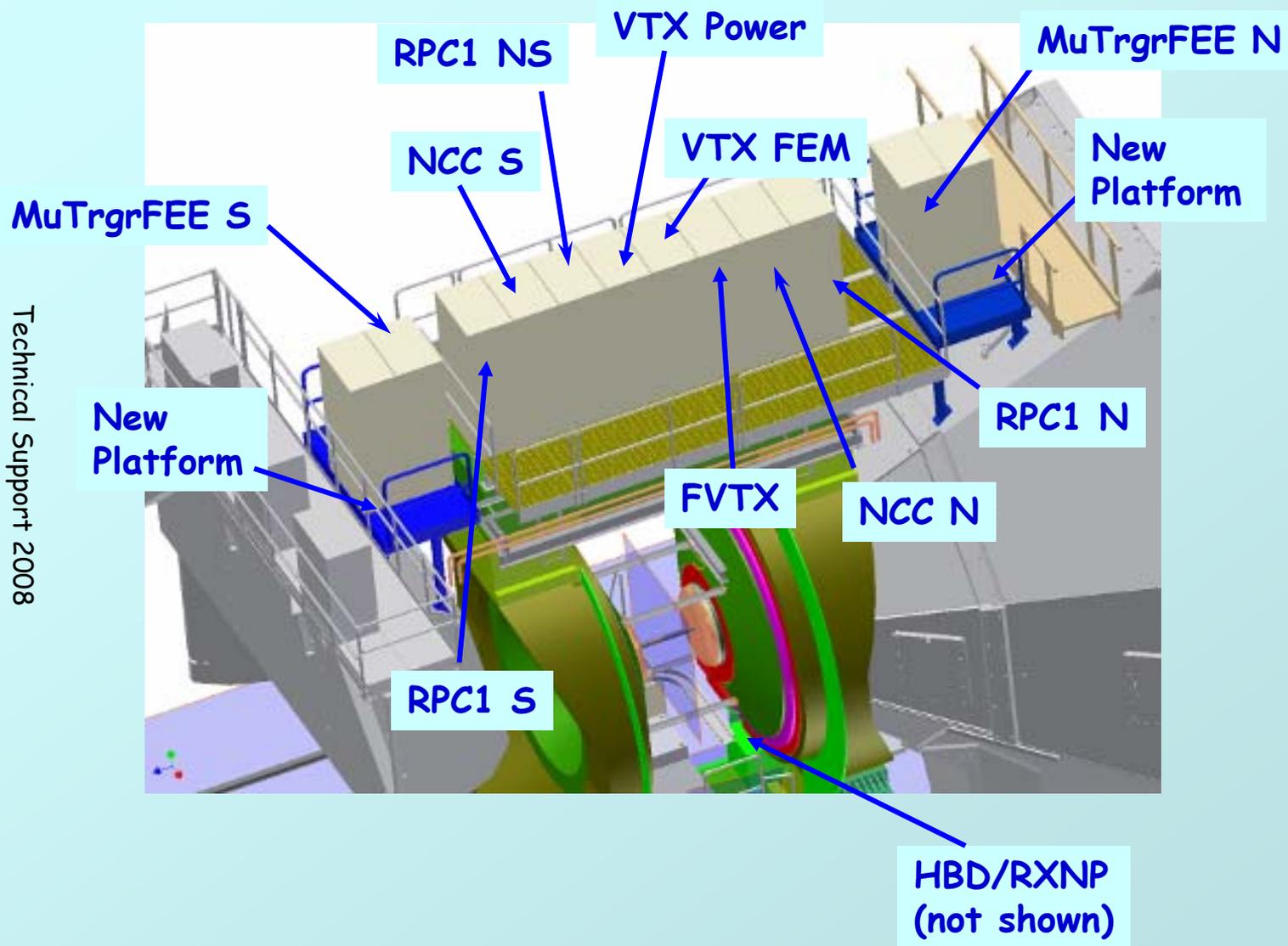


**CM Crane procurement postponed
Until FY09**



Sta 1 scaffolding is here.

Detector upgrade Rack allotments

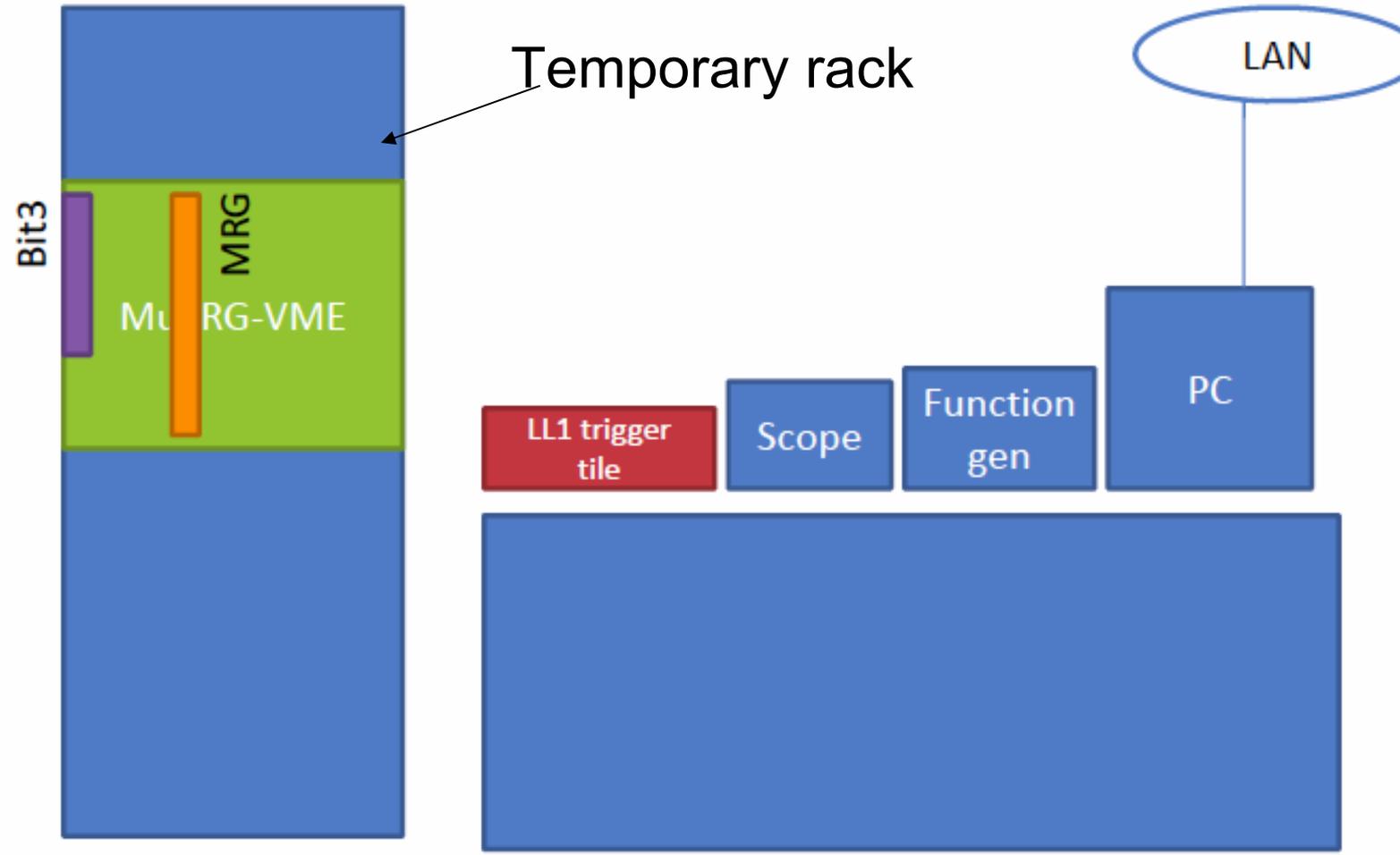


Technical Support 2008

Space to setup test bench

- End of July
- QA boards
- MRG - LL1 test

MRG-LL1 test bench at BNL



MuTrigger FEE Rack Utilities

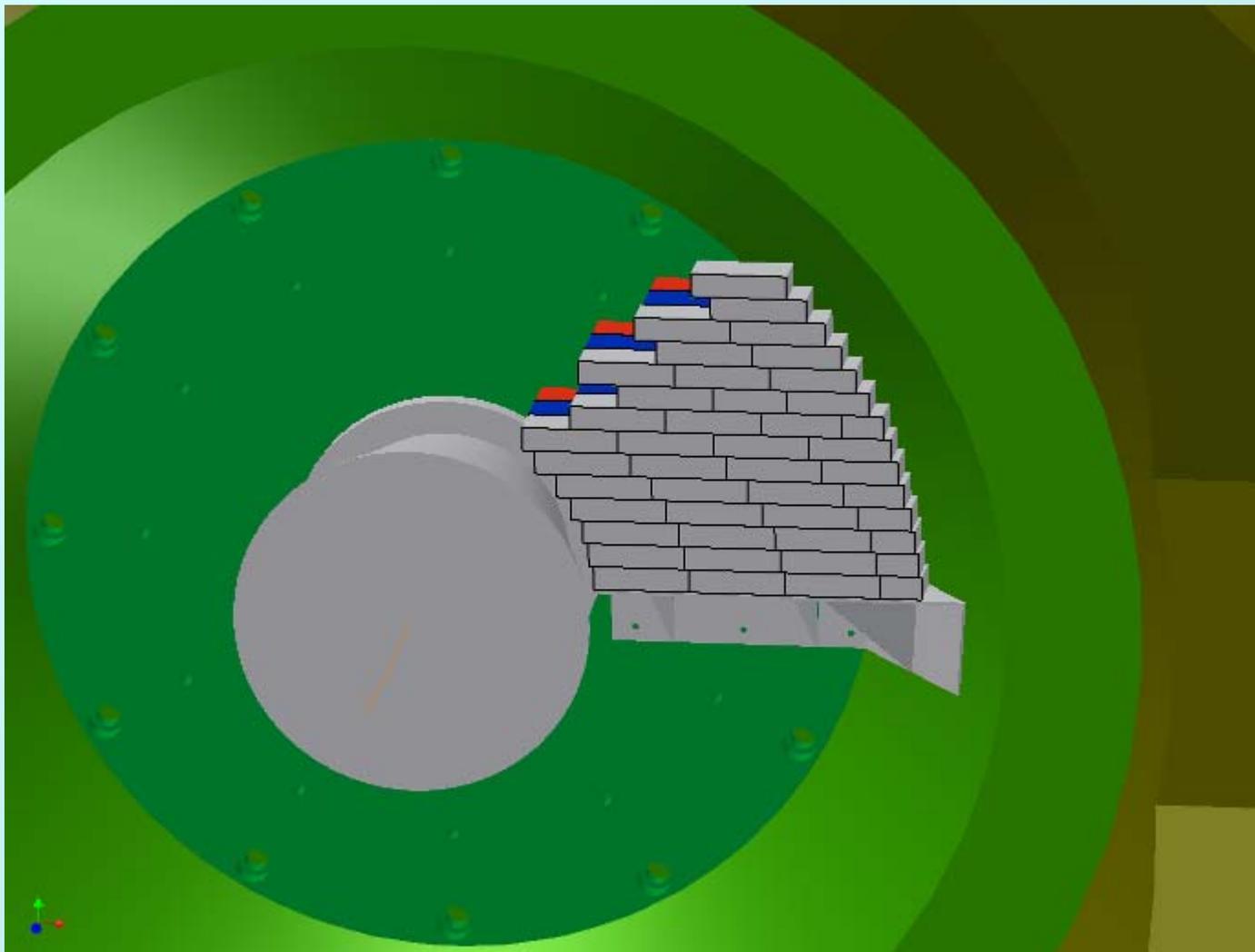
Technical Support 2008



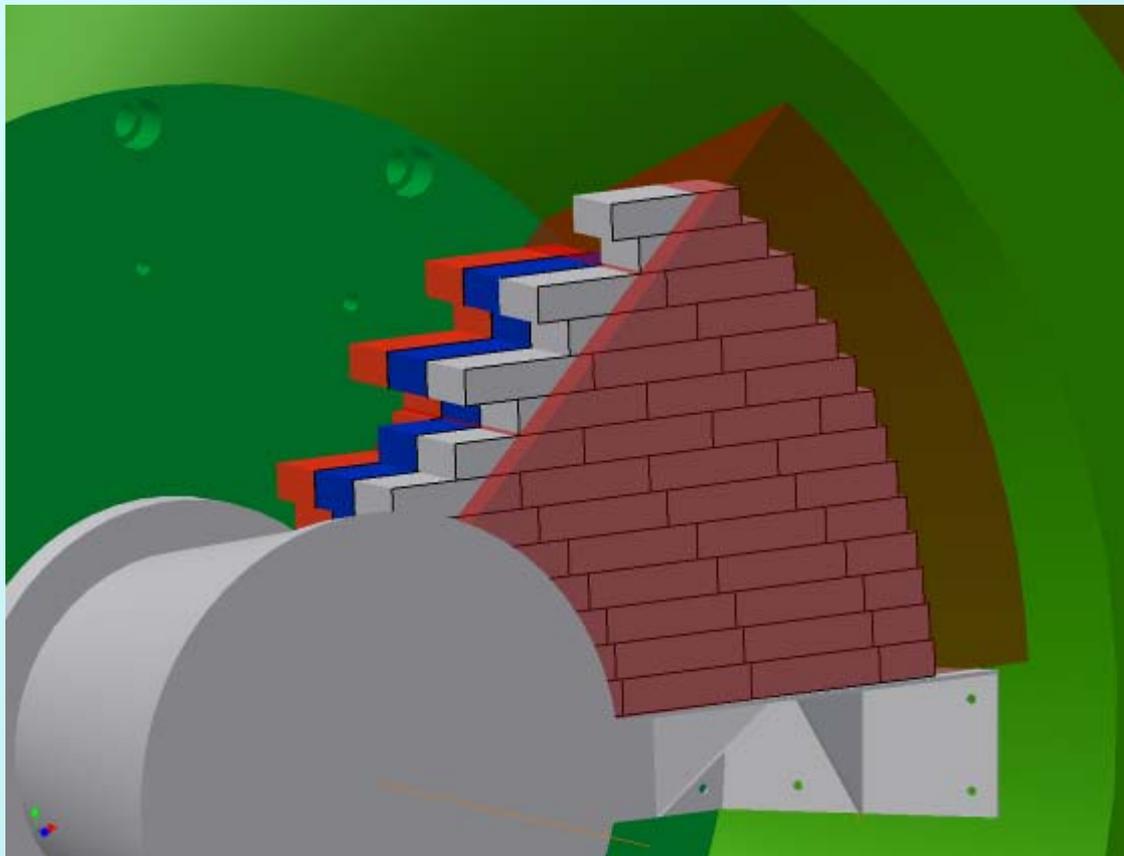
Need to install Tee's on supply and return lines: both s/b $\frac{3}{4}$ to supply Mu Trigger North rack and future rack

RPC Absorber Concept

Technical Support 2008



RPC Absorber Concept



Uses 112 2x4x8
PB bricks, 22
need to be cut

12 inches deep
(RPC group
requested 35 mm
(13.8 in))

RPC Absorber Concept

Figures

FIGURE 1
Equivalent Stress

Equivalent Stress
Type: Equivalent Stress
Unit: psi
6/11/2008 3:45 PM

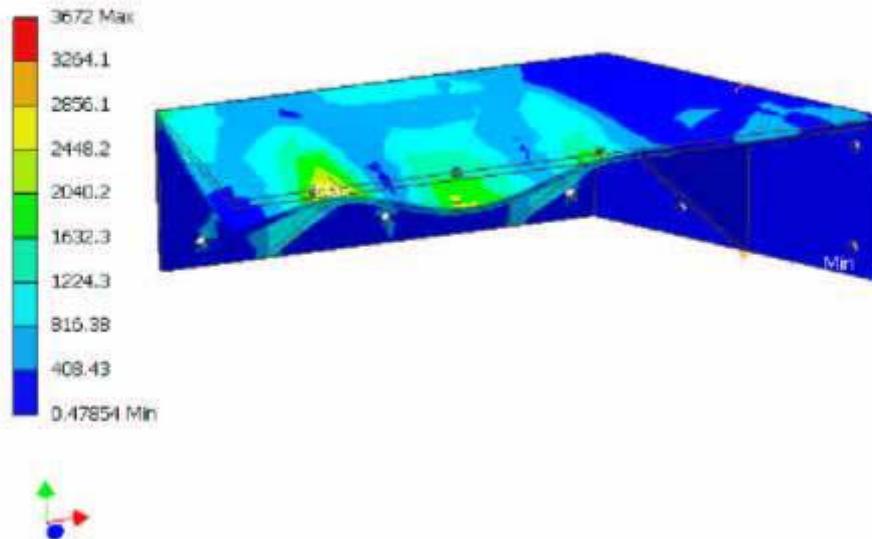
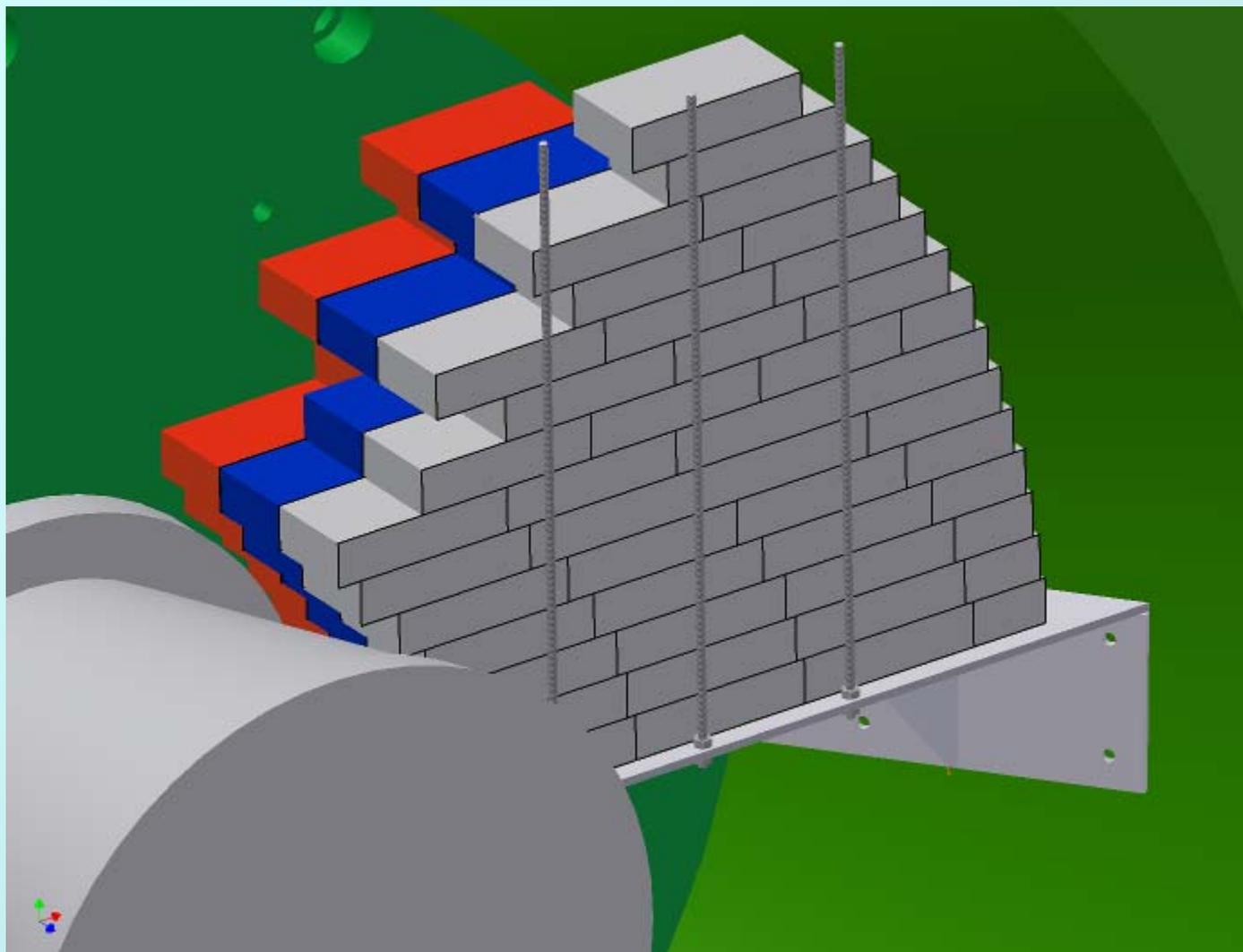


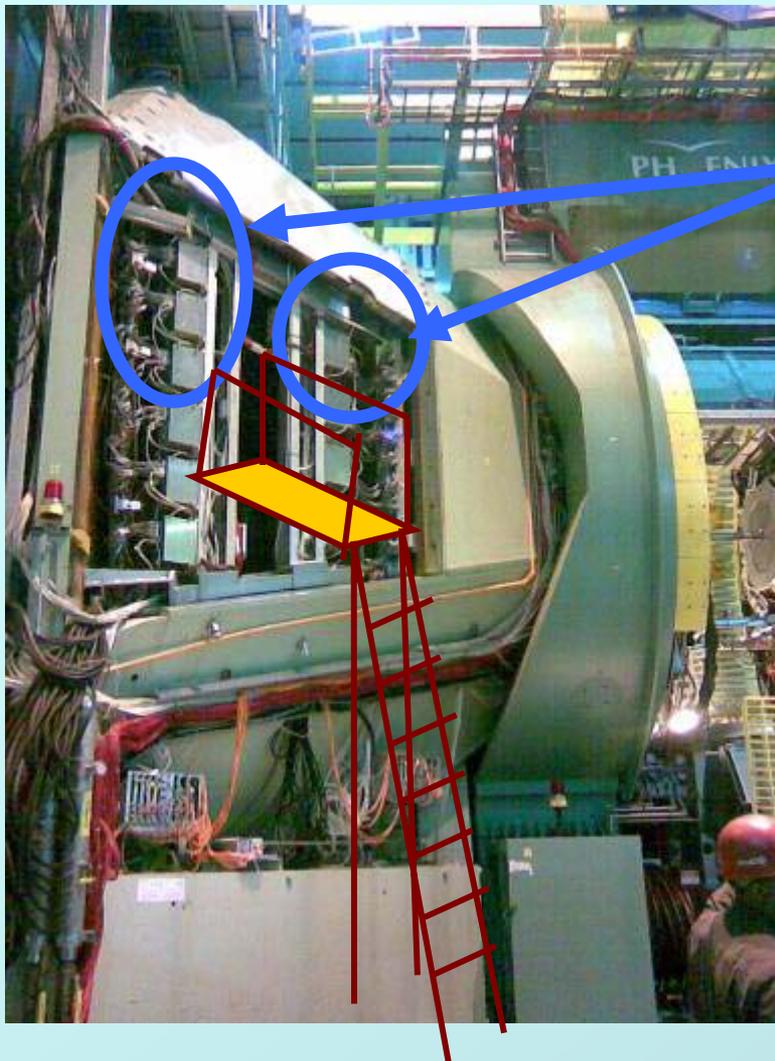
FIGURE 2
Maximum Principal Stress

RPC Absorber Concept

Technical Support 2008

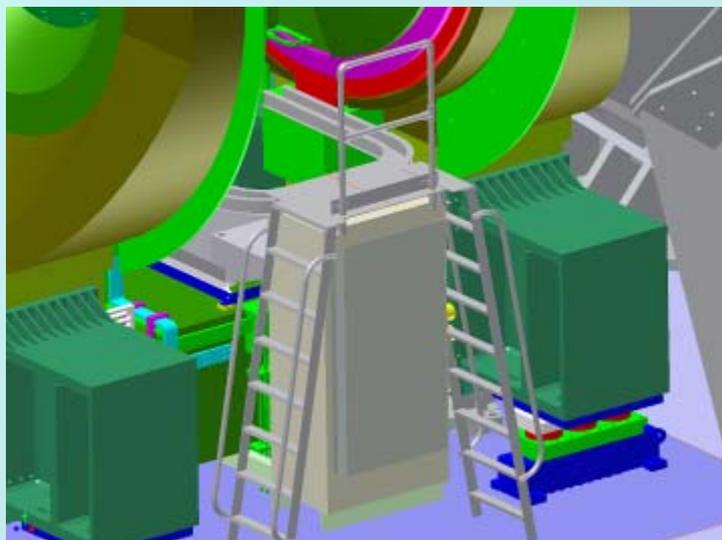
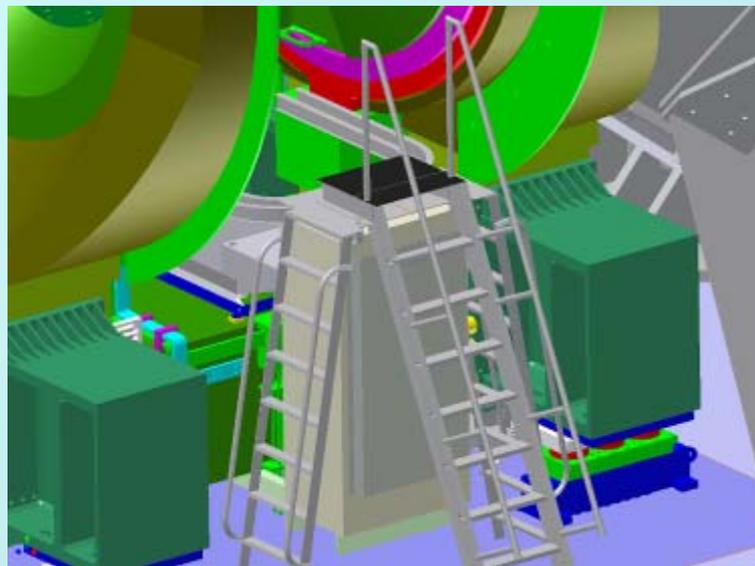
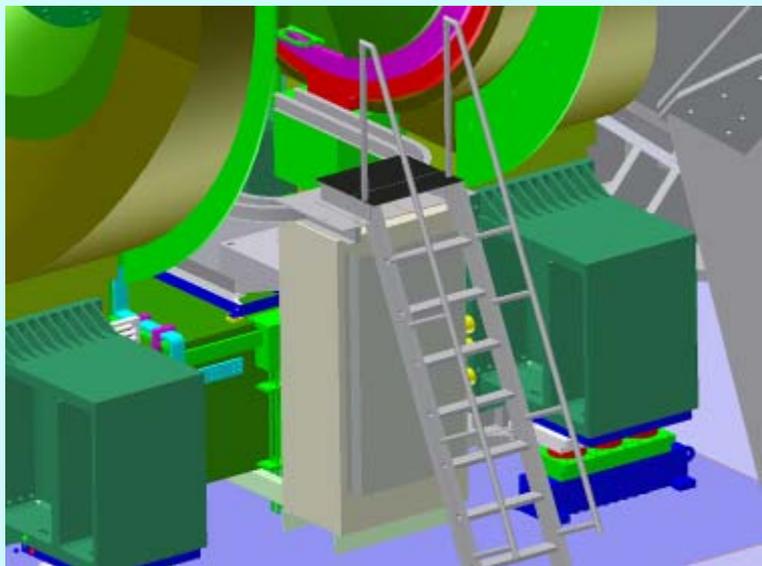


MuTrigger FEE upgrades in MMS in support of RPC prototypes



To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

We will develop a plan to access these for installation and testing from a custom work platform (to be designed).



Safety & Engineering Review Action Item Status

1. New Beampipe
2. Mu Trigger FEE upgrade installation
3. RPC Prototype Installation
4. MuTr MMN & Station 1 scaffolding
5. CM Crane

Shutdown '08 Electrician Work

- 1) Mixing house safety bucket rewiring
- 2) Install HVAC cooling and/or fan power circuits into RPC tent. Install fans/cooling units.
- 3) Run Power to new MuTrgr FEE racks on MMN and MMS
- 4) Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks.
- 5) Install power feeds to RPC north & south tunnel racks from IR power panels.

NOTE: MuTr north power panel has no available breakers to feed north tunnel racks (south panel has spare breakers for use). More engineering analysis is required to determine if the north power panel should be increased in size or for installation of a sub panel branch can be accomplished.

- 6) Assist in signal cable installation for MuTr/RPC upgrades as necessary.
- 7) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
- 8) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

Work Permit Requirements

- CM Crane Installation
- RPC Prototype Installation
- HBD re-installation
- PC1 Repairs

These WP's not needed until Sept.

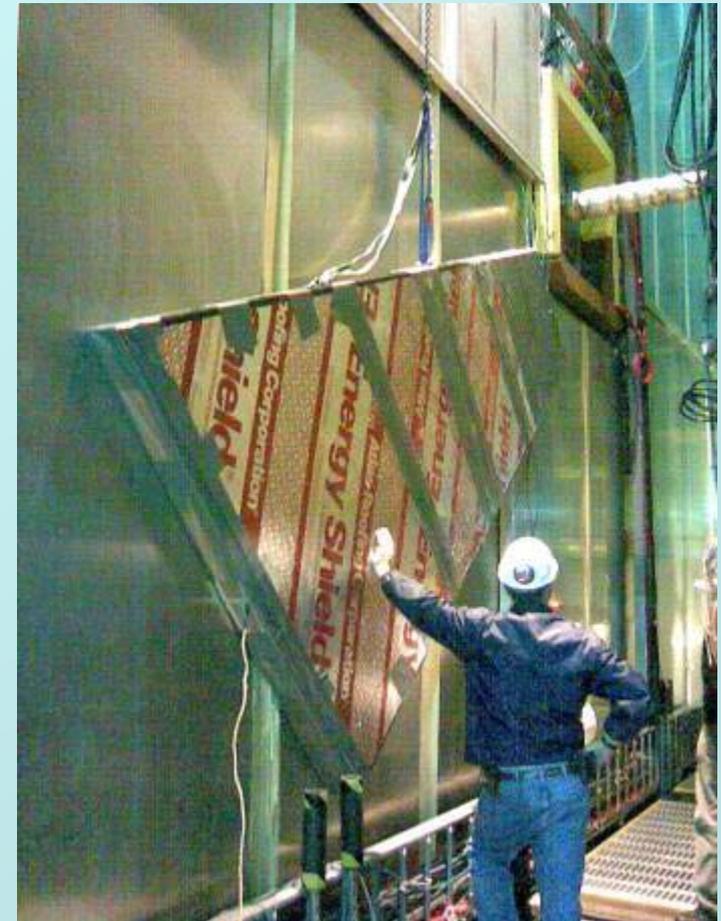
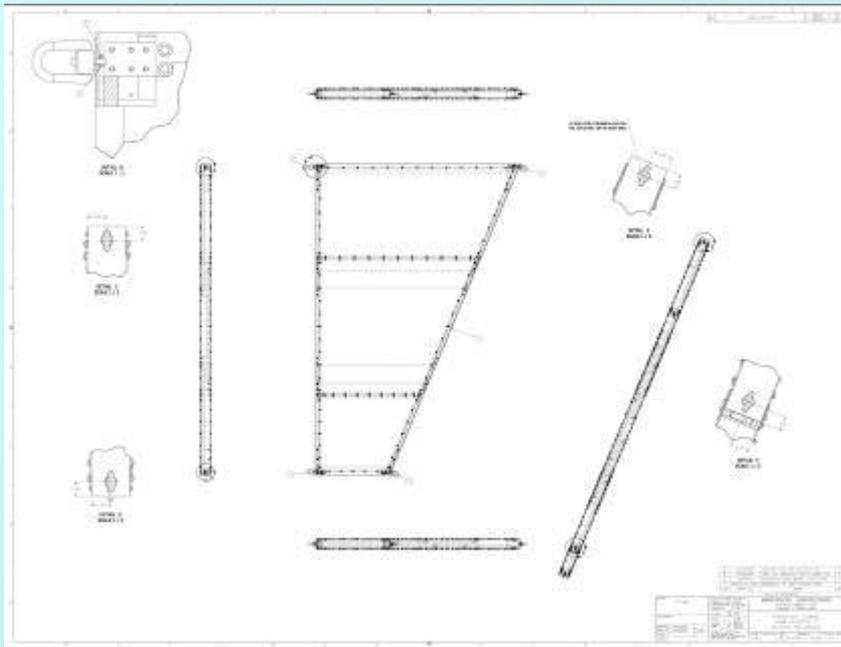
(More will be needed - to be added to the list as appropriate)

RPC Prototype

Rec'd dim's and lifting points from Larry B.

Need to decide on prototype orientation and alignment for Sta 1 & 2 based on absorber location.

Technical Support 2008



RPC Factory Support

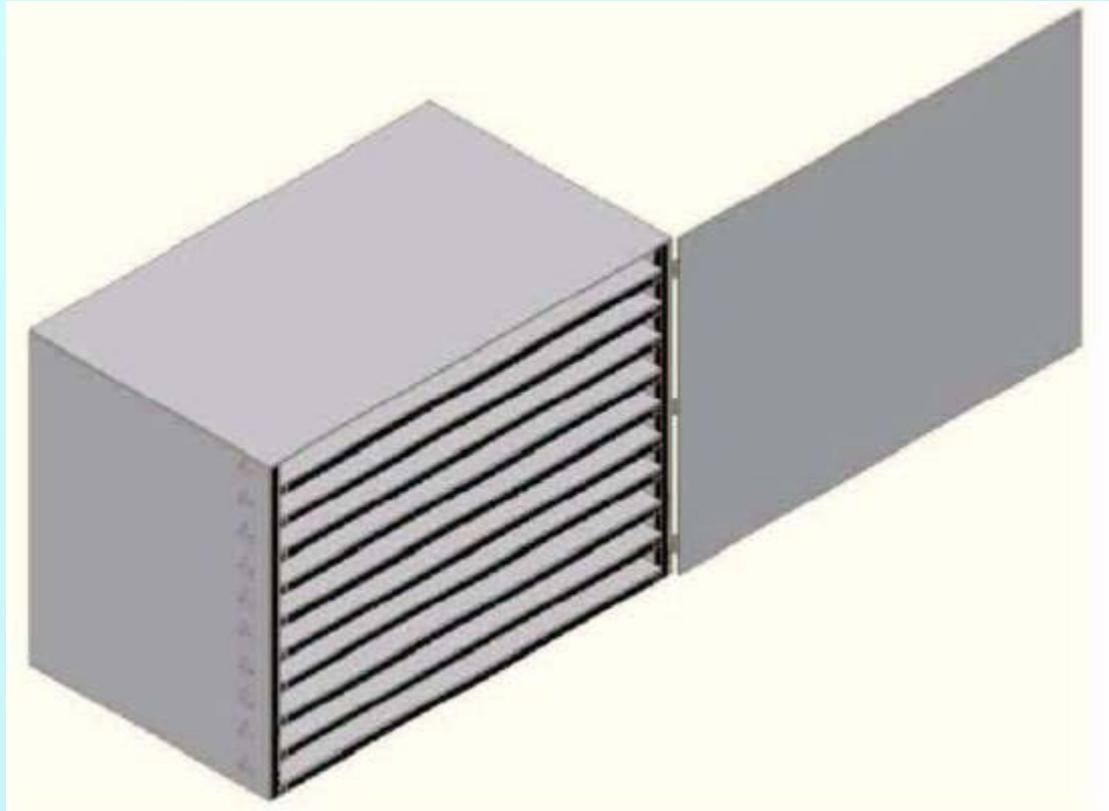
(2) ~3 Ton thru-the-wall AC's available from CA-D

208V Need isolated electrical source

Supplemental portable 1-1/4 ton unit ordered

Storage Shelving: 2 additional sets rec'd. Assembly is done.





Dark Current Test Stand

Specs:

Chamber gas flow (?)

HV supply 10,000 V

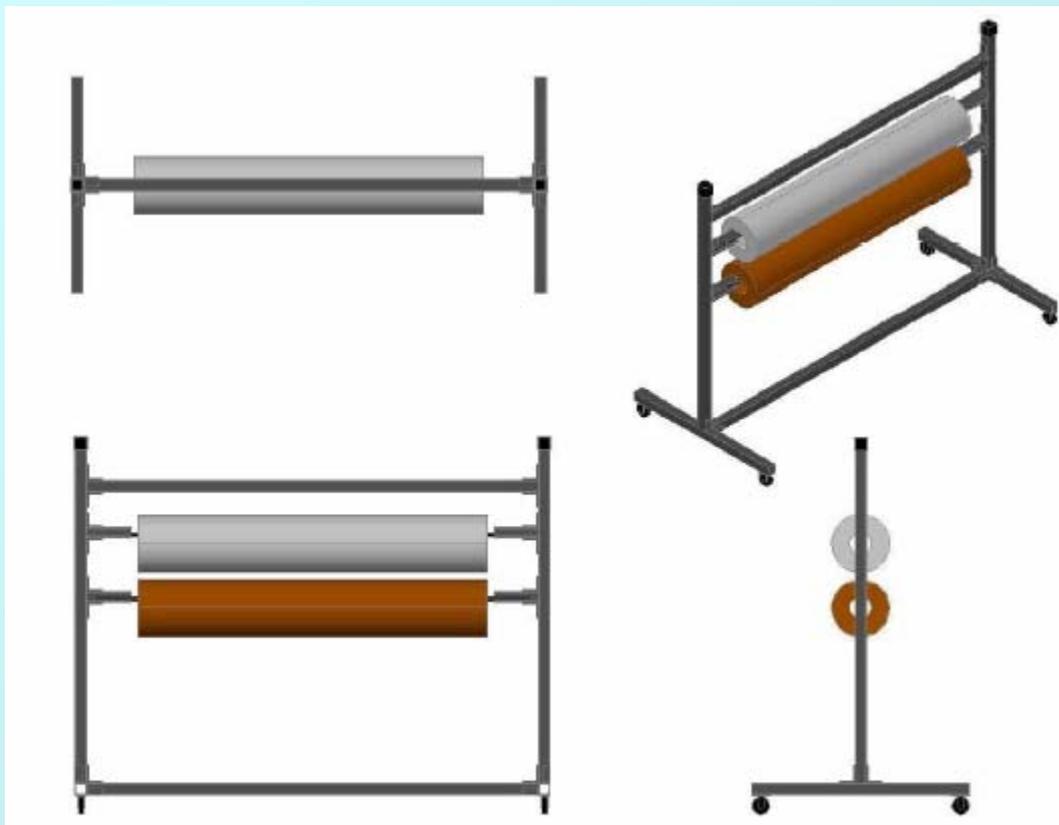
Hold time 72 hrs

10 shelves each to hold a
76" x 50" (approx. max.)
Gap module.

Trip points $< 20 \mu\text{A}$

Current $< 1 \mu\text{A}$

Shelf surface: flat and
non-conductive



Foil dispenser

Safety, Security, etc.

1. During June and July DOE will be auditing BNL's Emergency Management. We all must be familiar with the actions we're expected to take should an emergency occur on site. BNL's Office of Emergency Management has developed a brochure containing basic information on roles, responsibilities, and actions that can help us respond appropriately when an unexpected event takes place. The brochure also includes a map showing the Lab's various evacuation zones, as well as a handy tear-out card where you can list your zone, your Local Emergency Coordinator, and other important information. Every employee will receive a copy of this brochure this week, and a pdf version is available online now at:
<http://www.bnl.gov/oem/files/pdf/EmergBrochure.pdf>
2. The following NY State website reviews methods to prevent Lyme's Disease:
<http://www.health.state.ny.us/diseases/communicable/lyme/>
3. ORPS declared yesterday: hydraulic oil spill ~15 gallons by road cleaner.

Where To Find PHENIX Engineering Info



He's Back!

Technical Support 2008

Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm