

PHENIX WEEKLY PLANNING

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PLANNING



2/26/2009

Don Lynch

Run Support & Other Ongoing Work

Run Technical Support (mechanical, electrical and gas systems)

As needed → always takes priority

RPC Factory Support (continuing)

(see slides later)

Prep for 2009 Shutdown

Design PC1 East maintenance support fixtures
design 3/31, fabrication 5/31

NCC prototype design support (on-going med. priority)

VTX fabrication tooling design (on-going med. priority)

VTX installation design (on-going med. priority)

FVTX design/eng'g support (no support requested yet)

MMS Scaffolding Design

design 2/27, ordering/fabrication 5/1

New Beampipe supports (back logged)

RPC3 North installation Prep

Installation plan (including installation site prep plan) 3/6

RPC Quarterly Review 3/12 & 3/13

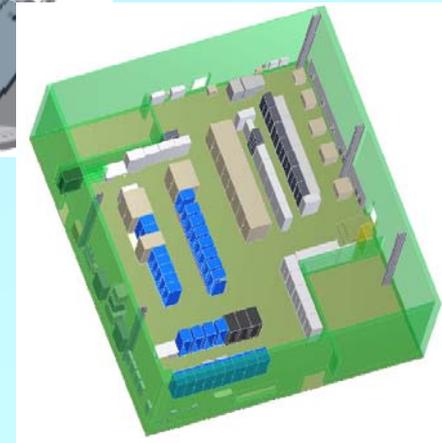
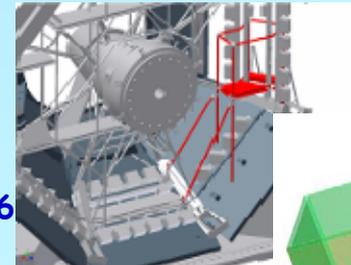
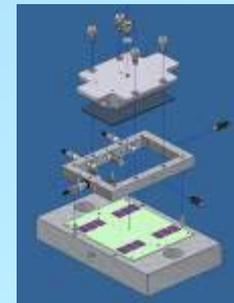
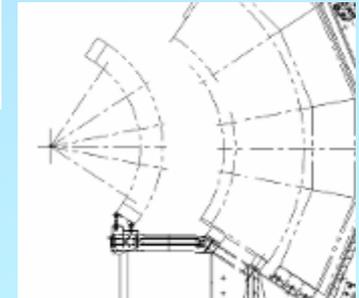
Installation fixture design 4/3

Installation fixture fabrication 6/26

Maintenance & Overhead Tasks

Procedure Review/Updates (ongoing)

Rack Room, AH, Trailer, Mixing House, etc. (ongoing)



PHENIX TECHNICAL SUPPORT 2009

Next Maintenance Access Day - March 4

Maintenance/Troubleshooting Task List:

TEC ES2 LV Troubleshooting
RPC Grounding Issues (IR & Tunnel Access)

MuTRigger FEE Issues?

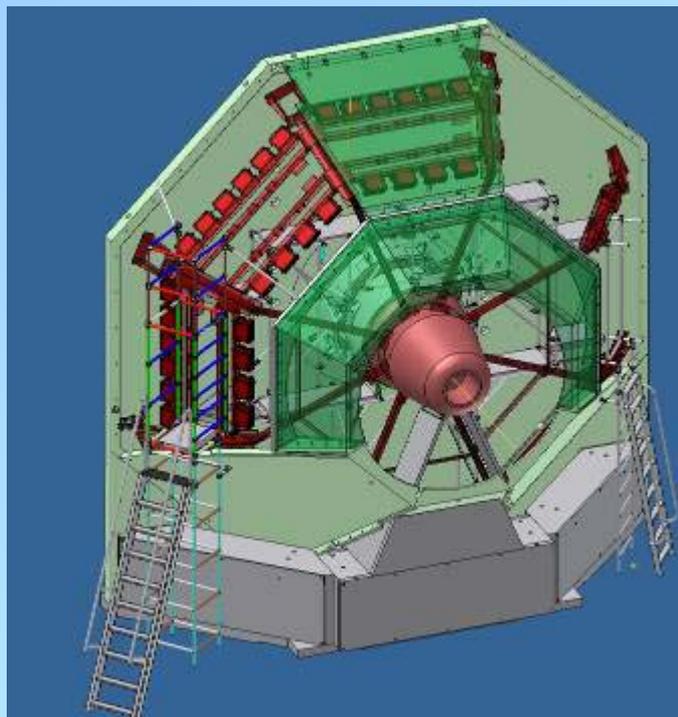
HBD Issues?

Other Issues?

TECHNICAL SUPPORT NOON

MMS Scaffolding Design

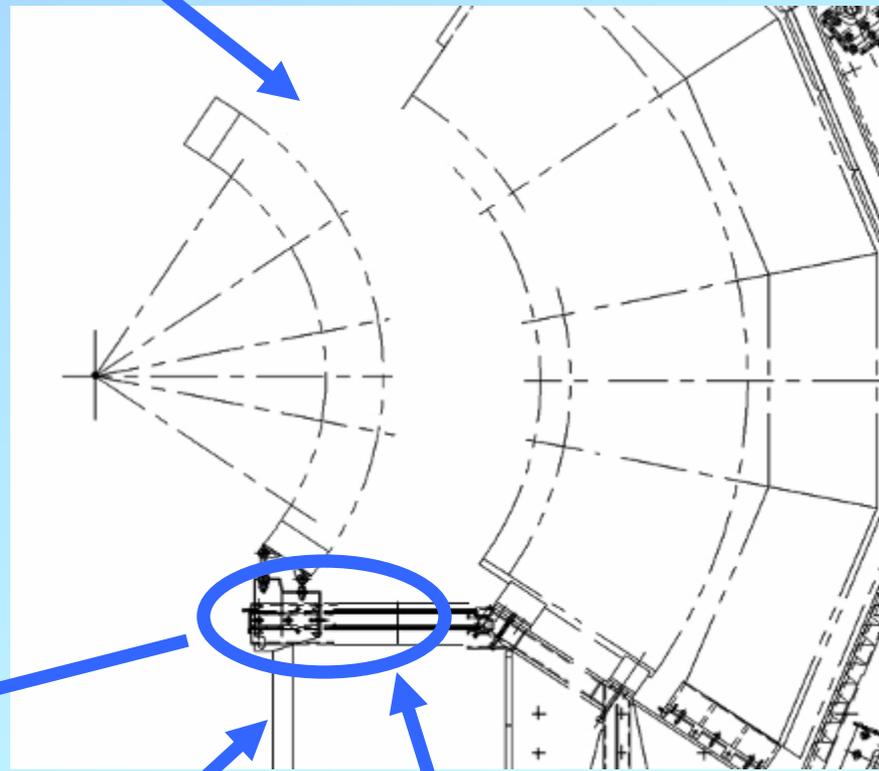
PHENIX SCALDOR



PC1 East Broken Wire Repair

Repairs to be performed during '09 Shutdown

Access to PC1 is adequate to remove and replace module



New Column Supports Under railway extensions

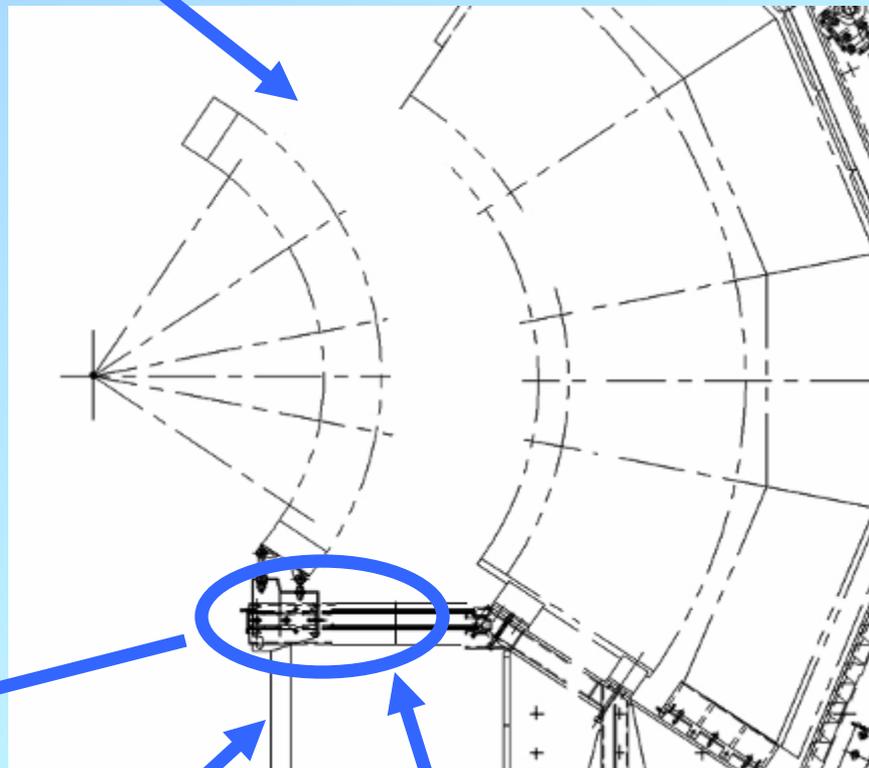
New Railway extensions will allow DC to be pulled out ~ 3 feet more

PC1 East Repair Fixturing Design

Repairs to be performed during '09 Shutdown



Access to PC1 is adequate to remove and replace module



New Column Supports Under railway extensions

New Railway extensions will allow DC to be pulled out ~ 3 feet more

TECHNICAL SUPPORT NOON

RPC Factory Change in Scope

Remaining Action Items:

- Review the mechanical design of the burn-in assembly and the dolly system to be used in moving the $\frac{1}{2}$ octant units. *Design In Progress, Review to follow*
- Update the RPC high voltage and gas procedures if necessary (Giannotti, Pisani Jan 30, 2009) *In progress*
- Add individual output valves to the burn-in unit gas schematics (Pisani, Jan 30, 2009) *In progress*
- Get a permit for the R134 added consumption (Pisani, Van Essendelft, Jan 30, 2009) *In Progress*
- Review the flammable compressed gas system piping (Gaffney, Pisani Jan 30, 2009) *To Be Scheduled*

RPC Factory Support Tasks:

- Complete the Dark Current Test Stand (2/27)
- Order materials for Burn-in Test Stand (2/20)
- Complete design of Tilting Transport Table (2/13) Done Review needed
- Order materials for the Tilting Transport Table (2/20)
- Order additional shelf units for gap, module and RPC structural component storage (2/20)
- Design and order environmental control system for Burn-In Test Stand (2/27)
- Assemble gap & module storage with humidity control existing shelves (2/27), full complement of shelves (3/13)
- Extend N2 supply to storage shelves (not required)
- Assemble structural component storage existing shelves (2/27), full complement of shelves (3/13)
- Assemble tilting transport table 3/6
- Assemble burn-in test stand (bike rack) 3/27
- Extend gas, electric and safety systems to Burn-In Test Stand (4/3)

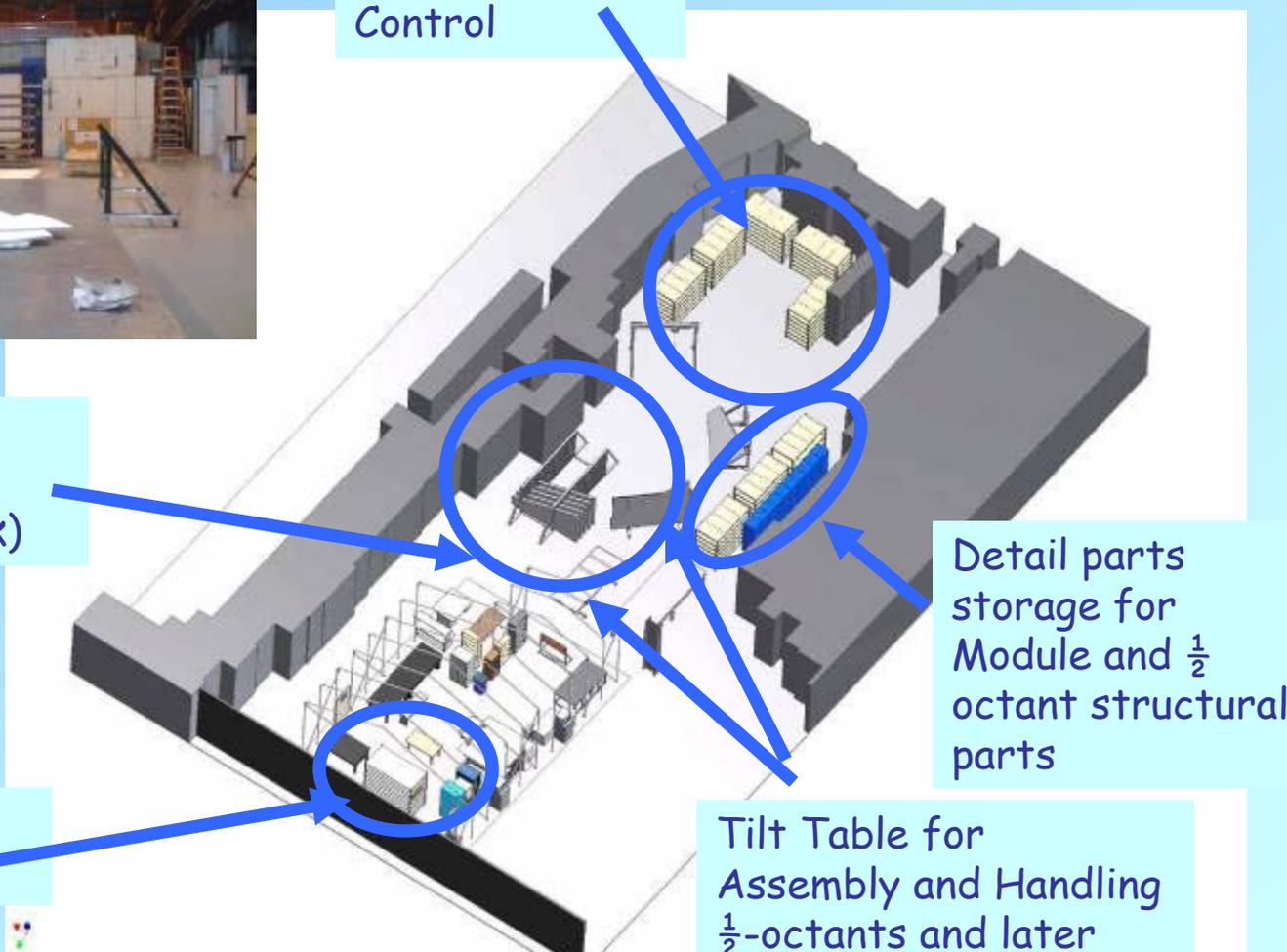
RPC Factory



Module and Gap Storage with humidity Control

Burn-in test stand (bicycle rack)

Dark Current Test Stand



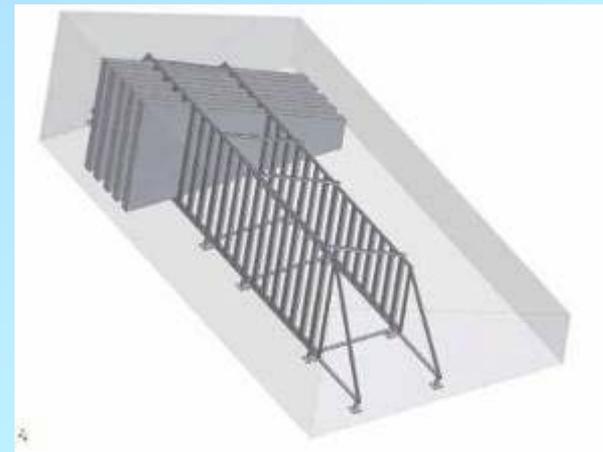
Detail parts storage for Module and $\frac{1}{2}$ octant structural parts

Tilt Table for Assembly and Handling $\frac{1}{2}$ -octants and later station one octants

Dark Current Test Stand
under construction

Also working on:

- a burn-in test stand for $\frac{1}{2}$ octants

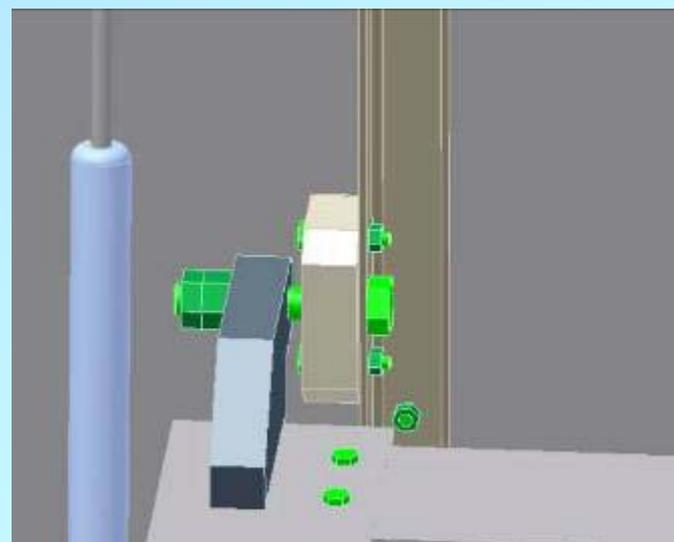


- additional storage for gaps modules and structural detail parts

- transport table/cart

Half-Octant Assembly Tilt Table

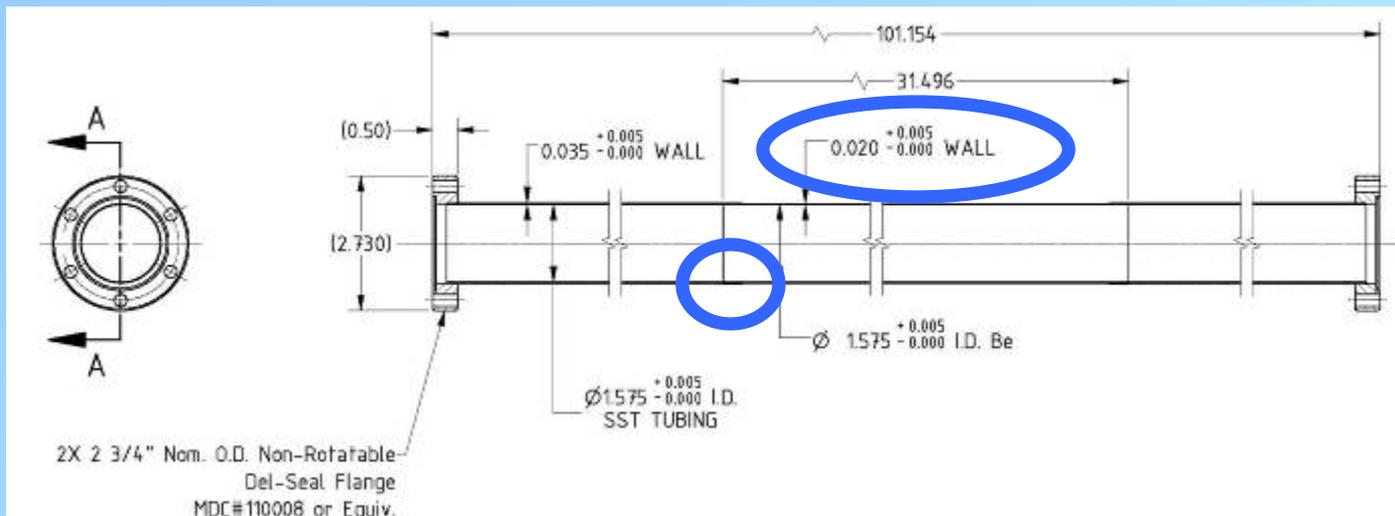
PHENIX TECHNICAL SUPPORT NOOR



Still Waiting
for new CAP

New Beampipe

PHENIX TECHNICAL SUPPORT NOON

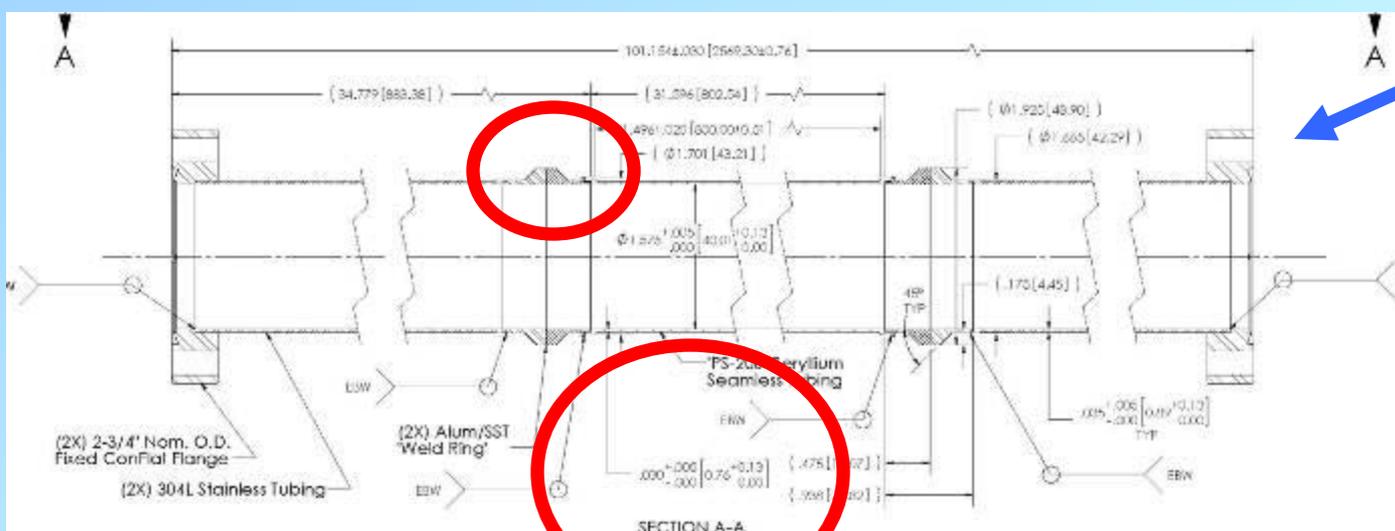


PHENIX

SCD

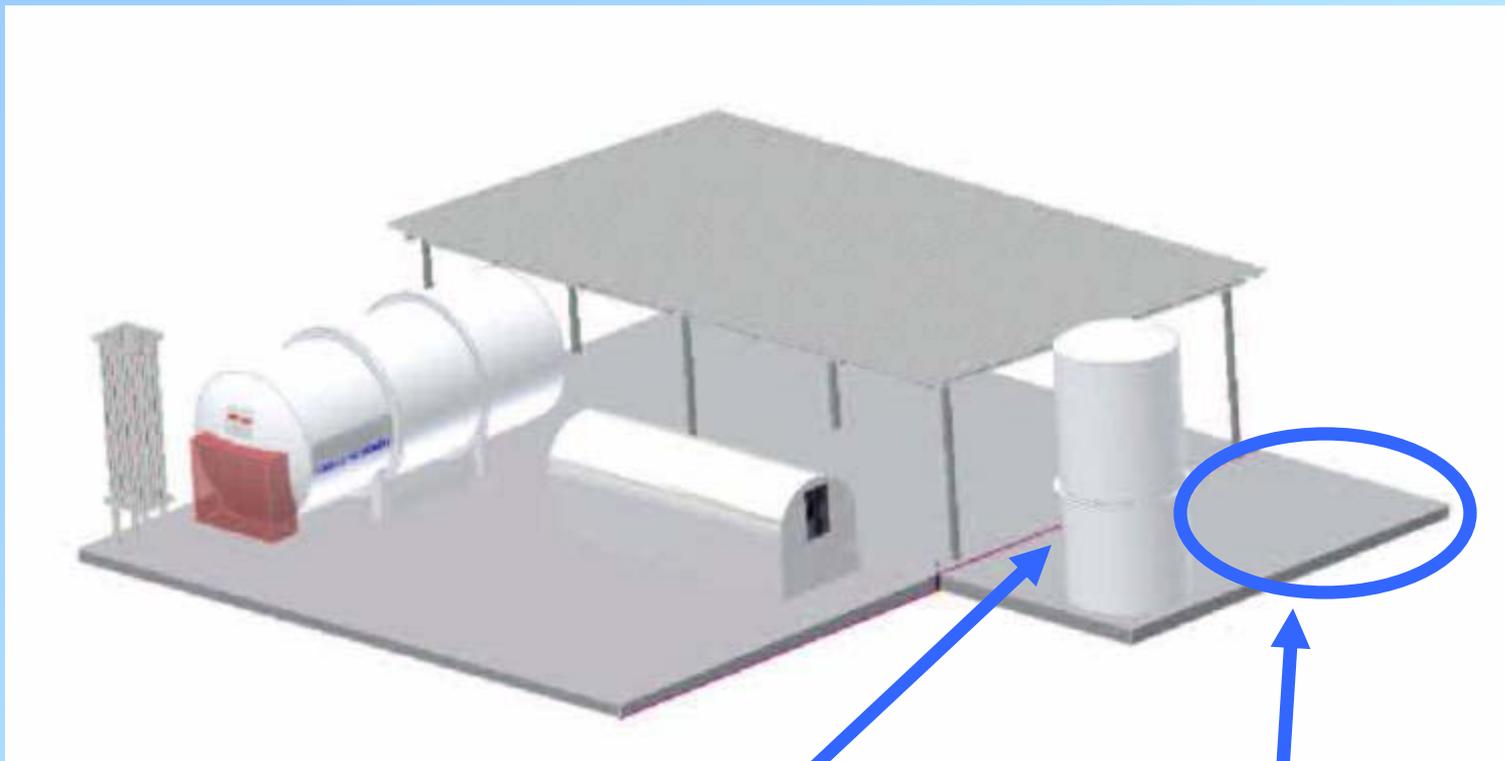
Brush-Wellman
CAP

We expect quotes for transition and spool sections shortly



Gas Pad Upgrade & Ar Dewar

PHENIX SCRAPPORT NOOR



New Liquid Argon Dewar to meet current and future demand

Additional Pad area for storage of empty gas bottles

General location as shown, footprint (size) TBD

- Roof leak in utility bathroom at northwest corner behind tech offices.
- Roof leak over door between rack room and assembly hall.
- Trailer bathroom slop sink (for Custodians).
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- New duct heater (This item is in progress and should be completed soon)
- Improved Rack Room AC performance (This item has been addressed time and again but unsatisfactorily. Currently the AC fails periodically and is repaired only to fail again. On-condition maintenance is not adequate...an engineered solution is needed.)



Shutdown '09 Major tasks (expect 5 month shutdown):

- 2009 shutdown Begins April 10, or July 1, 2009 or July 15 or ?????
- End run, remove wall, MuID collars down, EC to AH (3 weeks)
- Install Station 1 South scaffolding (1 week)
- Install Station 2/3 scaffolding (2 weeks)
- PC1 East repair (4 weeks)
- Install stations 1, 2 and 3 south MuTrigger FEE's (12 weeks)
- MuTr decapacitations: station 3 south (3 weeks)
- RPC Station 3 North (12 weeks)
- Add Ar Dewar and expand gas pad to add storage (12 weeks)
- Prep for future upgrades/existing equipment maintenance & Repair (as necessary)

TECHNICAL SUPPORT NOON

1. PHENIX Annual Safety Review Remaining Action Items:

- Settle the CM magnet ladder railings (Lynch, ~~Pearson Phillips~~ Feb 4, 2009) *Don and Dave to resolve*
- Update the documented work procedures. (Lynch) *Ongoing*
- Add HSSD to the 1008 Assembly Hall (Phillips/ Levesque Mar 1, 2009) *This is a C-A issue.*

2. EMS/OSH Audit

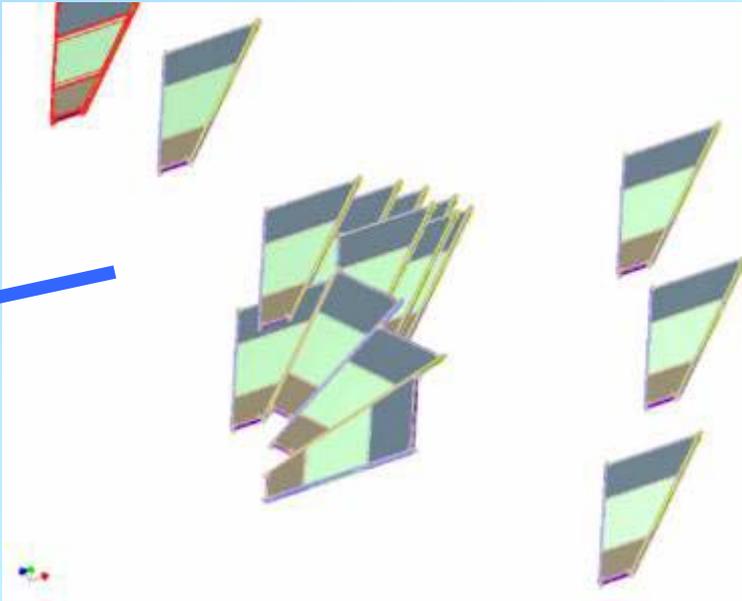
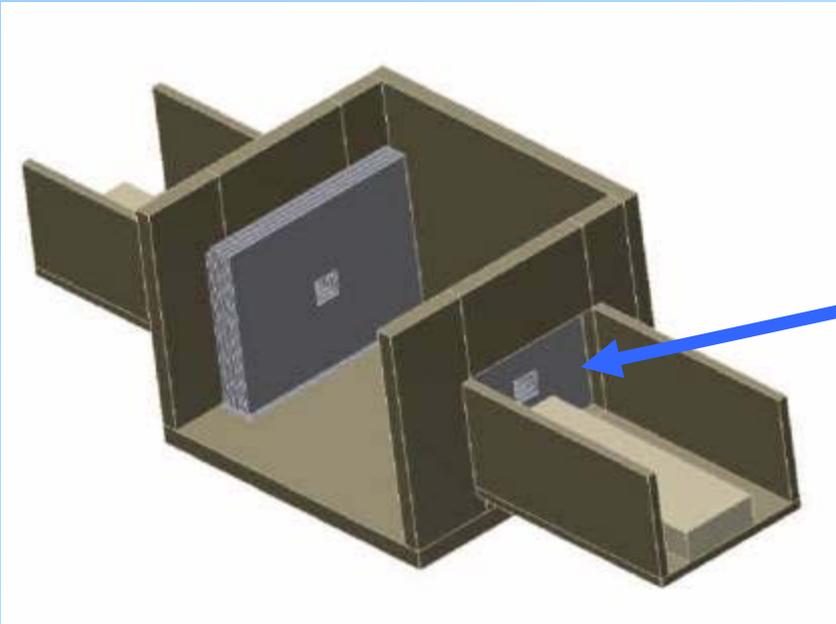
- Joe Montalto and Dick Savage had a walk thru this week and discussed our operations with Paul and Me
- We can expect an audit this June, but our feedback is that we look good
- CAD ATS system prompts us (PHENIX) for input but does not allow us into the system. CAD is working on it.

3. ODH1 issues - please let me know of any issues with the escape packs and ODH monitors.

4. BNL Occupational injuries

- YTD: DART 10, Recordable 15, First Aid 15. Targets: DART 6, Recordable 16, First Aid: N/A
 - Staff Services: slipped on ice, broken hip Recordable & DART
 - Physics Dept.: preparing crate, caught foot, slipped, cut wrist, stitches Recordable & DART
 - Laboratory Protection Office: slipped on ice, missed work First aid, Recordable & DART
 - NSLS User fell into equipment during assembly, cut lip, stitches (Non BNL, info only)

Where To Find PHENIX Engineering Info



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

2/26/2009