

PHENIX

WEEKLY PLANNING

10/2/2008

Don Lynch

ID	Task Name	Duration	Start	October				November				December				January						
				28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18		
1	IR Configuration	82 days	Thu 10/2/08	[Gantt bar spanning from 10/2/08 to 1/18/09]																		
2	CM & MMS moved South	10 days	Thu 10/2/08	[Gantt bar from 10/2/08 to 10/12/08]																		
3	Remove Sta 1 N scaffolds	3 days	Mon 10/13/08	[Gantt bar from 10/13/08 to 10/16/08]																		
4	CM & MMS in run position	12 days	Thu 10/16/08	[Gantt bar from 10/16/08 to 10/28/08]																		
5	CM in run pos, MMS south	30 days	Mon 11/3/08	[Gantt bar from 11/3/08 to 12/3/08]																		
6	Install Sta 1 North Scaffolds	10 days	Mon 11/3/08	[Gantt bar from 11/3/08 to 11/13/08]																		
7	MUTrgr S FEE rack platform	8 days	Mon 11/17/08	[Gantt bar from 11/17/08 to 11/25/08]																		
8	Remove Sta2&3 S scaffolds	15 days	Mon 11/24/08	[Gantt bar from 11/24/08 to 12/9/08]																		
9	MUTrgr S FEE rack platform	5 days	Mon 11/17/08	[Gantt bar from 11/17/08 to 11/22/08]																		
10	Install MMS lampshade	5 days	Mon 12/8/08	[Gantt bar from 12/8/08 to 12/13/08]																		
11	Remove Sta 1 S scaffold	3 days	Wed 12/10/08	[Gantt bar from 12/10/08 to 12/13/08]																		
12	CM & MMS moved South	13 days	Mon 12/15/08	[Gantt bar from 12/15/08 to 1/3/09]																		
13	Install MMN lampshades	13 days	Mon 12/15/08	[Gantt bar from 12/15/08 to 1/3/09]																		
14	CM & MMS in run position	1 day	Fri 1/2/09	[Gantt bar from 1/2/09 to 1/2/09]																		
15	EC moves in	15 days	Mon 1/5/09	[Gantt bar from 1/5/09 to 1/20/09]																		
16	MUID Collars On	2 days	Mon 1/19/09	[Gantt bar from 1/19/09 to 1/21/09]																		
17	MuTrigger FEE	63 days	Wed 10/1/08	[Gantt bar spanning from 10/1/08 to 1/18/09]																		
18	South Rack Assembly	2 days	Thu 10/2/08	[Gantt bar from 10/2/08 to 10/4/08]																		
19	South rack water/elec prep	12 days	Thu 10/16/08	[Gantt bar from 10/16/08 to 10/28/08]																		
20	South sta 1 chasis install	5 days	Mon 11/10/08	[Gantt bar from 11/10/08 to 11/15/08]																		
21	South sta 2/3 water/air	5 days	Mon 11/10/08	[Gantt bar from 11/10/08 to 11/15/08]																		
22	South sta 1 water/air	5 days	Mon 11/10/08	[Gantt bar from 11/10/08 to 11/15/08]																		
23	North sta 1 cards & tests	9 days	Wed 10/1/08	[Gantt bar from 10/1/08 to 10/10/08]																		
24	North sta 2/3 cards & tests	30 days	Mon 10/13/08	[Gantt bar from 10/13/08 to 11/12/08]																		
25	South sta 1 cards & tests	20 days	Mon 11/17/08	[Gantt bar from 11/17/08 to 12/7/08]																		
26	South sta 2/3 cards & tests	15 days	Mon 11/17/08	[Gantt bar from 11/17/08 to 12/2/08]																		

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16	MUID Collars On	2 days	Mon 1/19/09																
17	RPC Prototype Install	66 days	Wed 10/1/08																
18	Rack Assembly	8 days	Mon 10/6/08																
19	Prototype gas system install	23 days	Wed 10/1/08																
20	Rack install	13 days	Wed 10/15/08																
21	Cable routing & support	23 days	Wed 10/1/08																
22	Assemble RPC3	6 days	Mon 10/6/08																
23	Move shielding	23 days	Wed 10/1/08																
24	Modify crys. Palace & vapor barrier	23 days	Wed 10/1/08																
25	Install RPC3	15 days	Mon 10/13/08																
26	Assemble RPC2	6 days	Mon 10/13/08																
27	Install RPC2	10 days	Mon 10/20/08																
28	Install lead absorber	5 days	Mon 11/17/08																
29	Connect electronics & gas.	10 days	Mon 11/3/08																
30	Test/Commission	33 days	Mon 11/17/08																

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16	MUID Collars On	2 days	Mon 1/19/09																				
17	MuTr Decapacitations (S sta 1)	10 days	Mon 12/1/08																				
18	Fan Tray Maintenance	88 days	Wed 10/1/08																				
19	HBD Installation	10 days	Mon 11/3/08																				
20	PC1 West repairs	23 days	Wed 10/1/08																				
21	work permit	8 days	Wed 10/1/08																				
22	repairs	10 days	Mon 10/20/08																				
23	RPC Factory	66 days	Wed 10/1/08																				
24	Fabricate Dark Current Test Stand	66 days	Wed 10/1/08																				
25	Prep for Shutdown 2009	45 days	Mon 12/1/08																				
26	Prep for Run 9 (incl p/b/v sheets)	20 days	Mon 1/5/09																				
27	Cryo Start Up	1 day	Mon 2/2/09																				
28	Flammable Gas/Start shifts	1 day	Wed 10/1/08																				
29	Start of physics	1 day	Wed 10/1/08																				

Shutdown '08 Schedule



RPC Factory:

Dark Current test stand

design Done, fabricate by 1/1

Storage Racks with humid. Cntrl

design 9/30, fabricate by 1/1

Mu Trigger FEE upgrade:

Rack assembly

South to be completed by 11/15

N&S platforms Fabricate & install

South to be installed by 11/15 (Pearson)

Prep work for platforms (water/elec)

Done

FEE Chasis installation N&S sta's. 1,2&3

South 1 by 10/31

FEE water and dry air installation

Sta. 2&3S by 10/15, Sta 1 south by 11/15

Install Elec cards

Starting 9/15: sta 1N by 9/30, sta 2 N by 10/15, sta 3N by 10/31, S by 11/15

Disassemble station1 scaffold

complete by 10/15

Move CM & MMS North

complete by 10/17

Install S rack cooling & electric

10/ 17 - 10/31

Rack room electronics, etc.

In progress, Complete by 11/15

Move MMS South

10/31

Install scaffolding in sta 1 south

11/3-11/7

Remove sta 1 scaffolding from south

12/1

Testing

Complete by 11/30

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Shutdown '08 Schedule

RPC external review	Sep. 25
RPC proptotype installation:	
Prep work	wait for final installation design
move (7) MuID pipes	
move gap 5 south cable tray	
Rack prep	In progress complete by Oct.15
RPC prototype gas system	In progress complete by Oct. 31
Move shielding for installation	Oct.1 [Pearson]
RPC prototype cable routing & support	10/1-10/15
Modify crystal palace & vapor barrier	as necessary [Pearson]
RPC prototype install	1/2 Octants to be ready for inst. by 9/29
(RPC2 - PHENIX)	Install 10/20-10/30
(RPC3 - C. Pearson)	Install 9/29-10/30
Install rack in tunnel south	Install by 10/15
Replace tunnel shielding/Vapor Barrier	After proto RPC3 installed [Pearson]
Connect electronics/gas	10/15-11/15
Install lead absorber	11/10-11/14
MuTr Decapacitations (Sta. 1&3 S)	Sta. 3 completed 2008 work, more in 2009
	Sta. 1: 11/10-11/30
Fan Tray maintenance	in progress (on going fill-in)
PC1 west work	10/20-10/31 (planning is in progress)

Shutdown '08 Schedule, cont'd



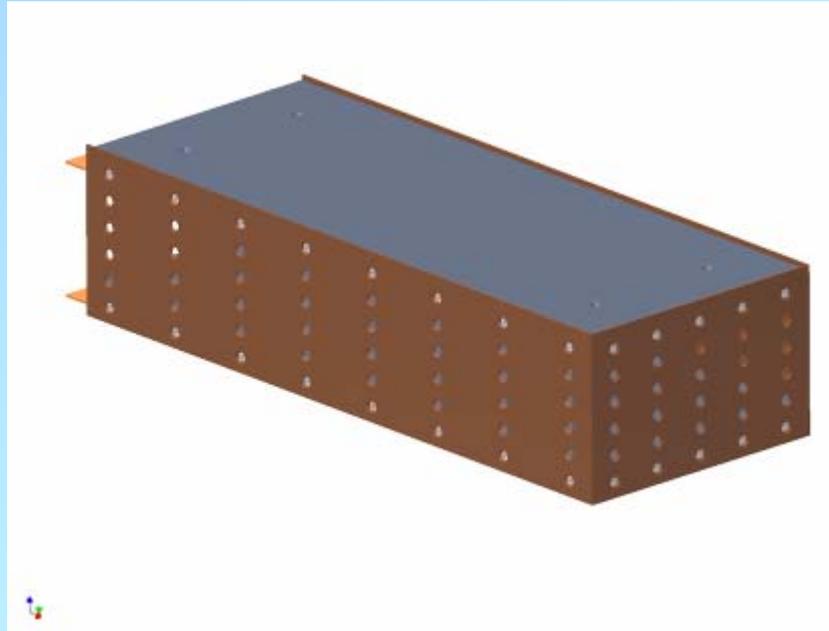
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Build new storage crates for scaffolding (Sta 1 & 2/3N)	10/1-10/31
HBD Install	11/3-11/14
DC East?/West Repairs	12/15-1/1
Gas mixing house UPS	complete by 11/30
Remove all inst'n equipment	
Sta 1 (from south)	Remove by 12/1
Sta 2/3 scaffolds	Remove by 12/15
all other testing equipment	Remove by 12/15
Prep for shutdown 2009	
Gap 5 N piping and cable tray re-loc.	Oct. - Dec
Gap 2 N cable tray & crate re-mounts	Not req'd until RPC2 re-instated
Prep for run 9	
Begin run 9 Prep	12/1/09
Install all lampshades	Complete by 11/26
Roll in EC	12/22
Pink/White/Blue sheets	12/29
Install MuID collar	12/30
Close shield wall	12/31
Cryo Start up	1/1/09
Flammable Gas/start shifts	1/11/09
Start physics	1/18/09
End Run 9	6/30/09

Other Work

NCC prototype design support
HBD support
VTX fabrication tooling design
VTX installation design
FVTX design/engineering support

Done? (for now)
as required
11/23-?
Waiting for specs
as required



MuTr FEE upgrade status

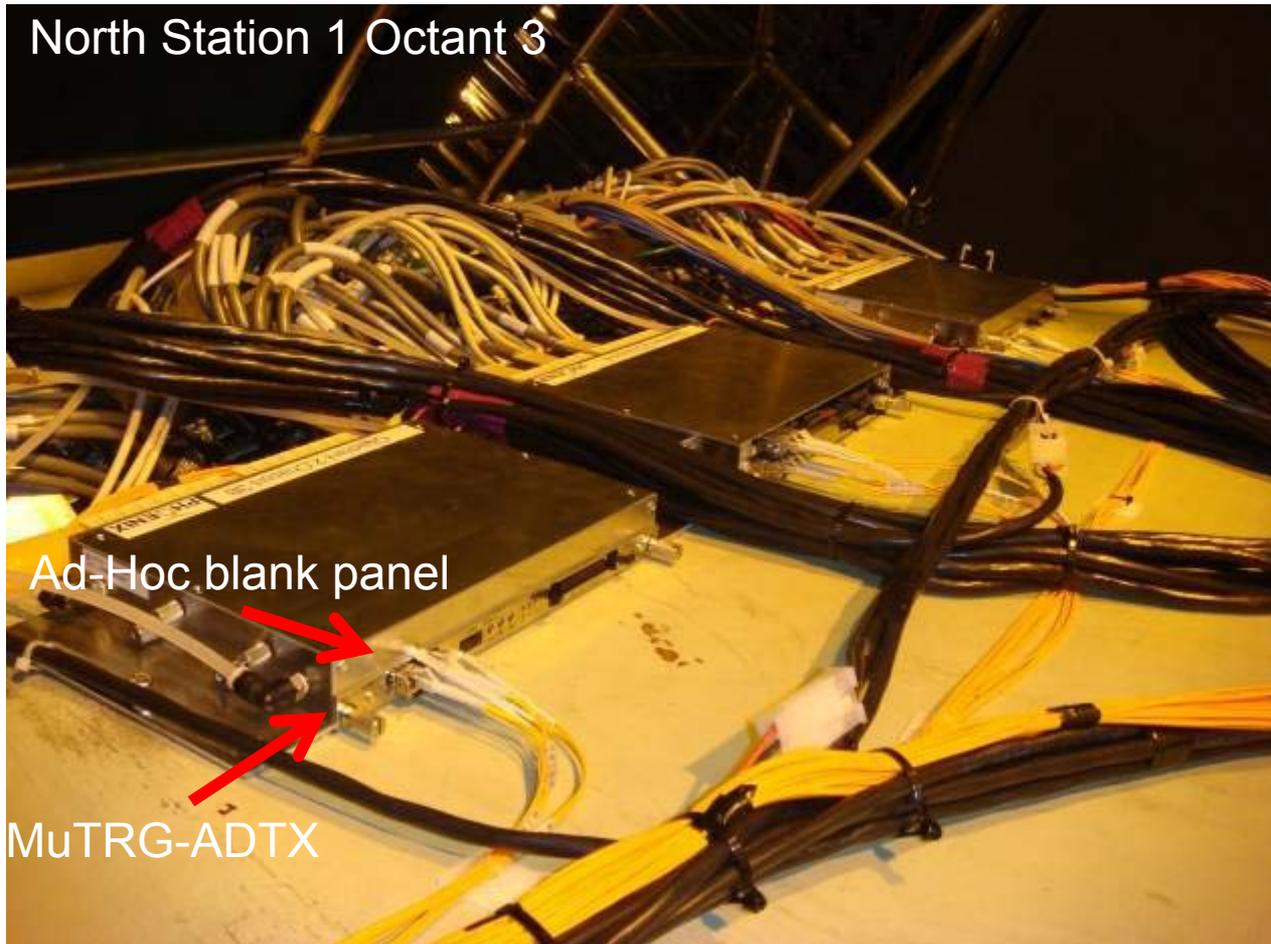
Tsutomu Mibe (KEK)
for the onsite upgrade team

Status of ADTX board production

- 220 boards will be produced in this year
- Arrival at 1008
 - 20 boards (Sep 20)
 - 20 (Oct 1st)
 - 30 (left JP in Sep 30)
 - 37 (will leave JP in Oct 7)
- Remaining production in progress
 - 25 (Oct 3)
 - 75 (Oct 9?)
 - 13 (before Oct 25)
- Blank panels for empty slots
 - shipped from Japan in Sep. 30



Installation of ADTX boards to North station 1



Installation of ADTX boards to station 1

- Completed installation of the first 20 boards into station 1
- Data was taken with MuTr calibration pulse.
 - One-by-one readout using our custom DAQ
 - All boards are functioning.
- Installation of another 20 boards is in progress.

North Station 1 Octant 2



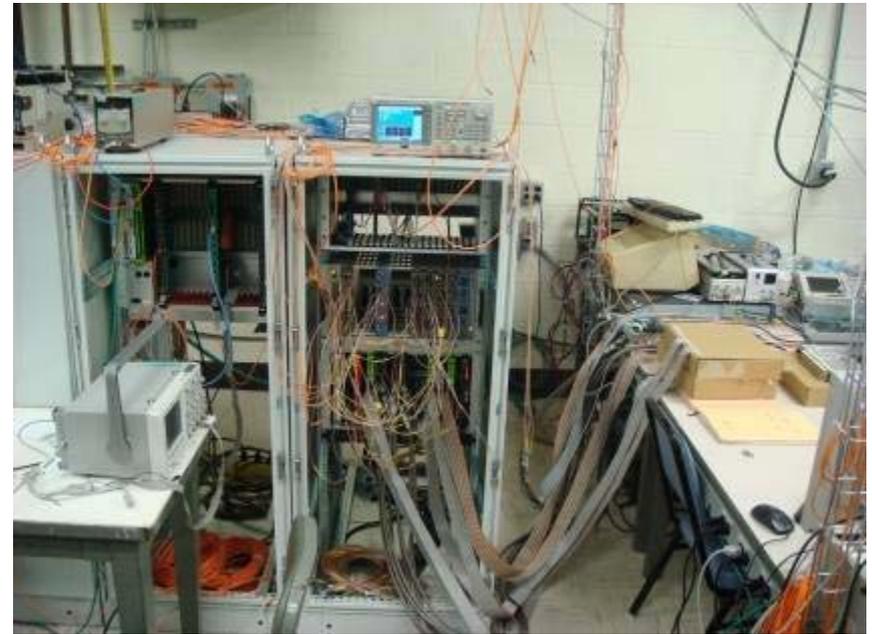
Connecting analog cable to new chassis

- Station 1
 - 80% completed 14 chassis at station 1 (30 cm cables)
 - Need to use 40 cm cables for remaining 20% (2nd week of Oct).
 - 40 cm cables left Japan in Sep 29
- Station 2
 - Completed octant 7
 - Octant 1,2,3,4,5,8
- Station 3
 - Completed octant 5 (2 chassis)
 - Octant 1,2,3,4,6,7,8



Remaining tasks for completion of North station 1

- Infrastructure
 - Signal cable installation (1 day, next week)
 - Waiting for cables to be arrived.
- ADTX boards prep
 - 20 boards installed
 - Next 20 boards
 - QA in progress (2 day this week)
 - Installation started
- Tests
 - Read out by Ad-hoc local DAQ (2-3 days, in progress)
 - MuTr noise measurement (2-3 days, in progress)



Shutdown '08 Electrician Work

1. Run Power to new MuTrgr FEE racks on MMS. *by 10/31*
2. Install 120 volt AC power drops into new control room annunciator alarm rack (rack room). *Work in progress, to be completed by 10/15.*
3. Re-wire ToF Rack power distribution bucket in Gas Mixing House. This is to correct minor wiring errors. *By 10/31/08*
4. Install new UPS in Gas mixing house. *By 11/30*
5. Walk down PHENIX Electrical Distribution Panels/Breakers and update changes on the electrical one-line drawings. *Complete by 11/30/08.*
6. Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks. *To Be Scheduled*
7. Assist in signal and LV cable installation for MuTr/ RPC upgrades as necessary. *MuTrgr North Done, MuTrgr South & RPC Prototype to be scheduled*
8. Repair Duct heaters for Control Room. *To Be Scheduled before it gets cold*
9. 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.

Lower priority not required for run 9, to be scheduled when manpower available and operations & projects inconvenience are minimized



**MuTrgr FEE
South Rack**

**Ready to be
installed
after CM
moves north**

MuTrigger FEE South & RPC Prototype Racks

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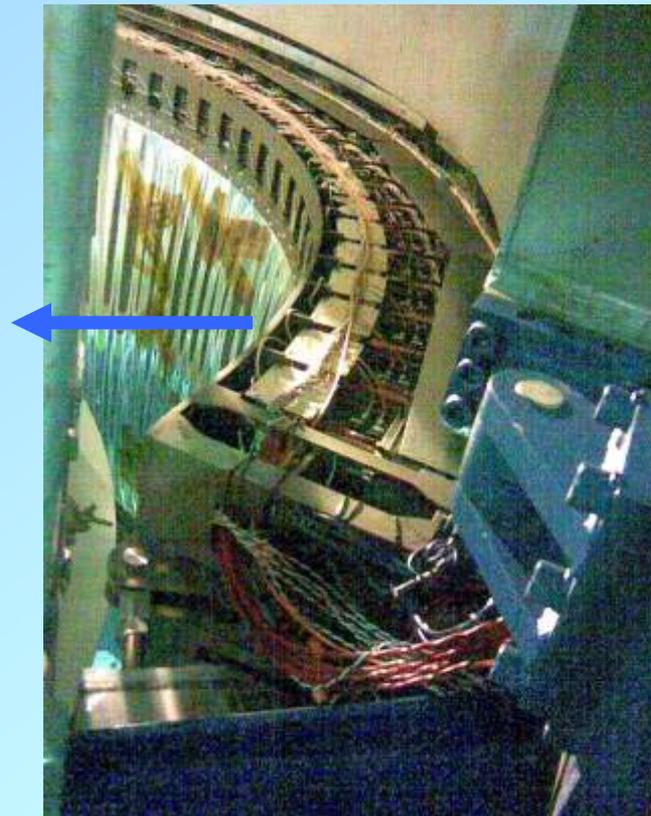
Work on these racks is in progress

(Note: DC East shown below;
West is similar)

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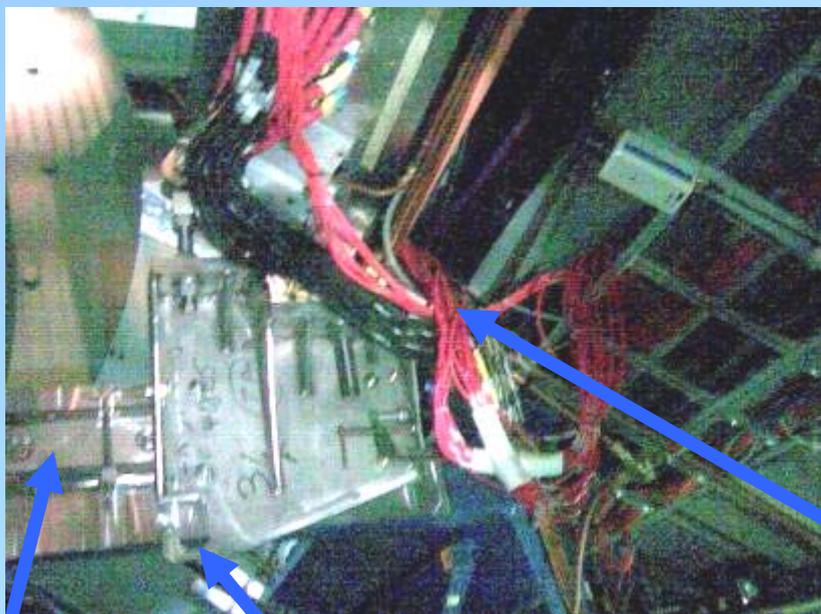


Electronics repair to be accessed in this area after DC is moved east
Work permit is in progress.



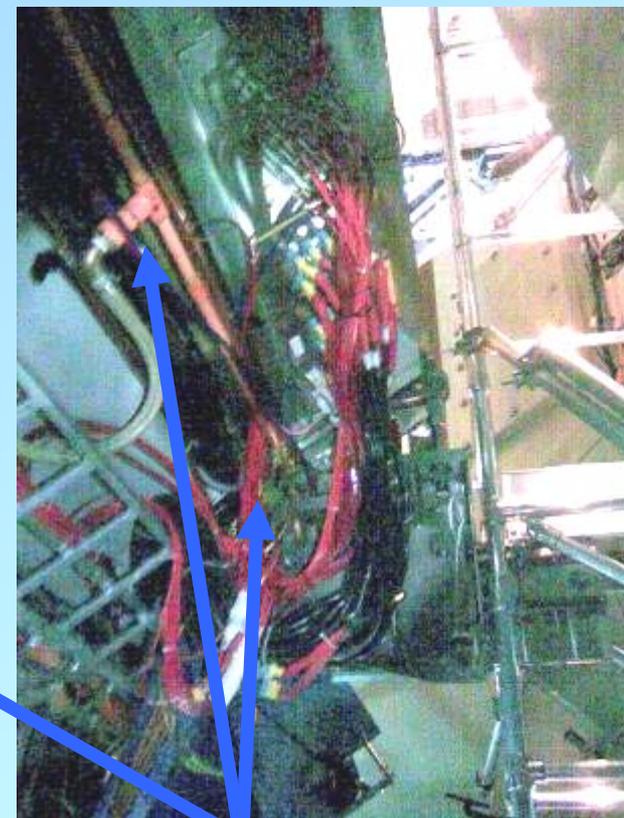
Entire DC must be moved east ~10"

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Bearing rails

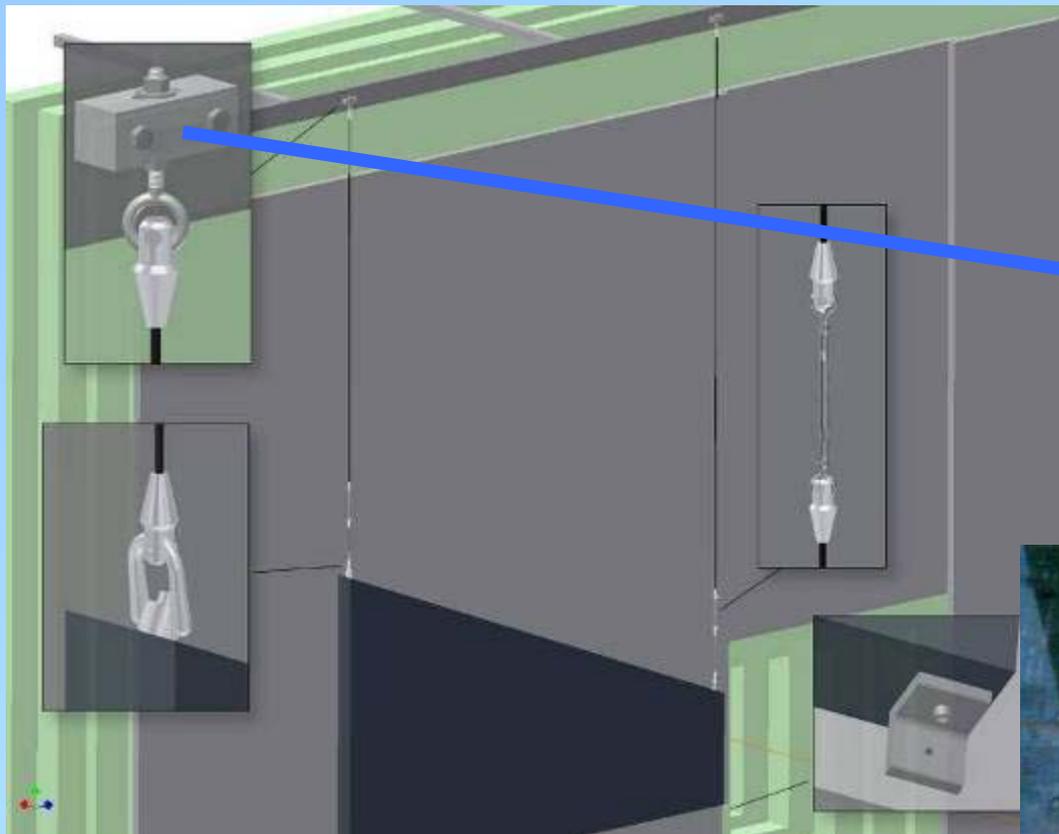
Translation Bar
(pushing surface) is
placed here



Cabling and piping must be
carefully evaluated and
disconnected or allowed to
travel as appropriate

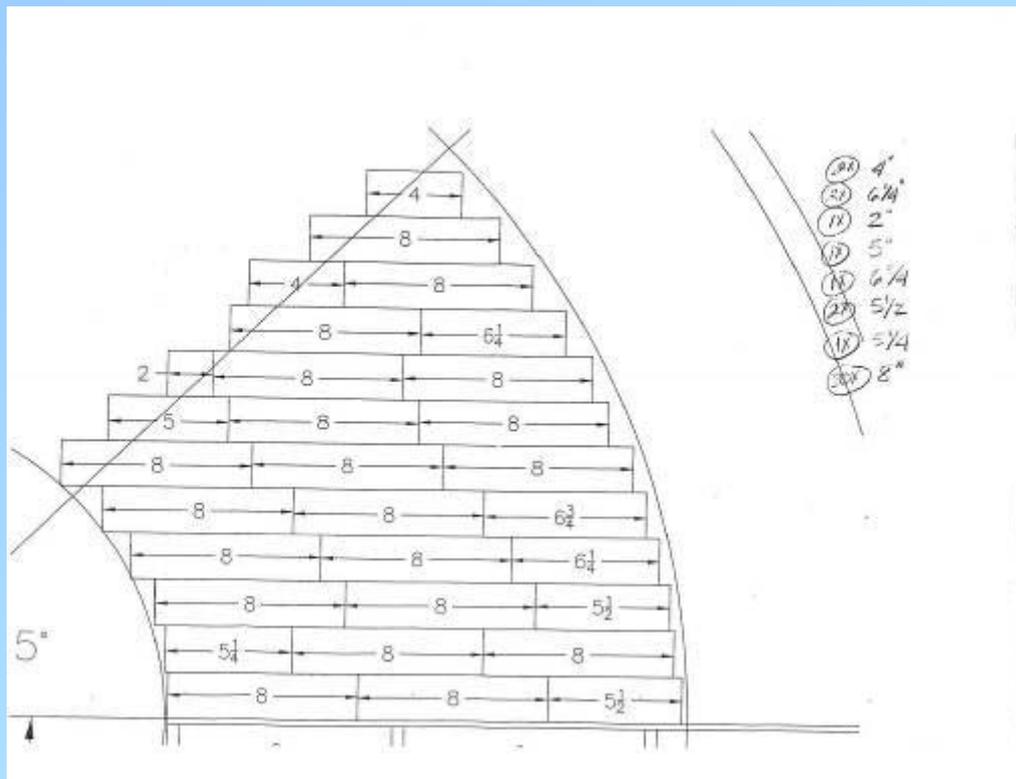
RPC2 Prototype Installation

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RPC Absorber

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We need 80 2x4x8 and 28 2x4xZ, where Z is 13 different lengths of varying quantities between 1-1/2" and 6-3/4"

RFQ placed with CS

J. Scott will deliver 120 2x4x8 rad clean and painted lead bricks, on skid to 1008 by 10/15

Don, Jimmy, Kenny, Carter, John and Mike L. must take TQ-LEAD1 (web course) by 10/15

Checking into lead cutting at SUNYSB

Work permit req'd

RPC2 Prototype Installation



RPC prototypes will be ready for installation as follows: RPC3 10/13, RPC2: 10/20



Gap and Module storage plan written and will be made a part of the overall RPC factory plan.



RPC group to dispose of shipping containers and left over equipment to keep storage area uncluttered.



MuTr Decapacitations

Remaining 2008 work: Station 1 South to be done ~ 12/1-12/15 simultaneously with MuTrgr South and RPC absorber installations. Will require Station 1 scaffolding on south side of CM.



(Note: picture at left is mirrored image of scaffolding in station 1 north.)

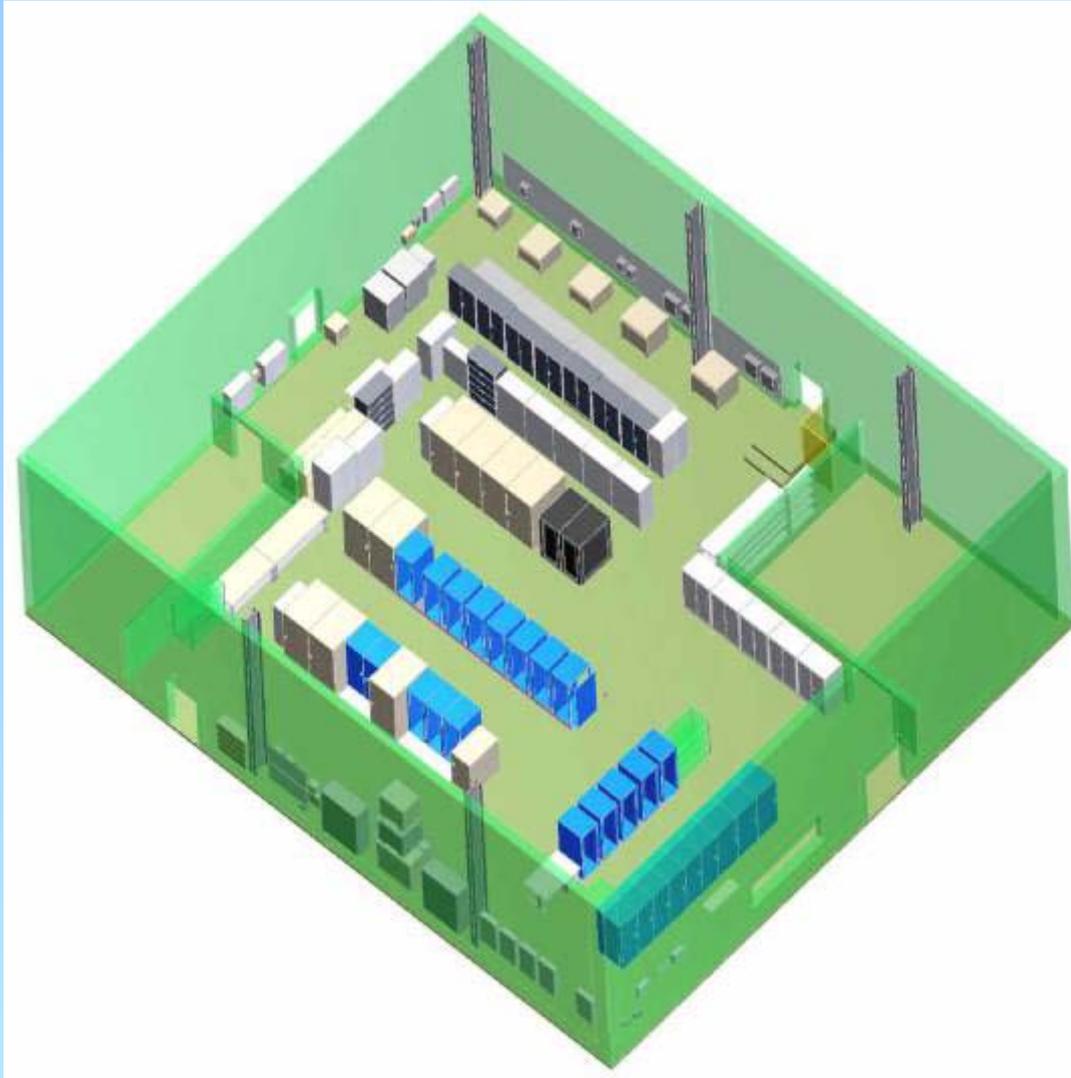
Scaffolding Crates

Existing Crates for Sta 2/3N scaffolds are severely rotted and need to be replaced with weather resistant materials.

Sta. 1 scaffolds do not have storage crates. These need to be built of similar materials. All dimensions of crates are available.



Rack Room Reorganization



Fairly accurate model
of the current rack
room configuration

Plumbing, HVAC and
cable management,
items in machine shop
and items in laser
room omitted

1. September ESS&H Summary:

End of FY 2008

Recordable cases: 28 (goal was 16)

DART cases: 17 (goal was 6)

63 first aid cases (no associated goal)

The good news is that it's a new FY we get to start over.

2. Depression screening week Oct. 6-10 conducted by EAP
call ext. 2733 for info (confidential)

Where To Find PHENIX Engineering Info

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Mets are done, let's go Jets!

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