

PHENIX WEEKLY PLANNING

9/4/2008

Don Lynch

Technical Summary 9/4/2008

9/4/08

Genie
ROOM

Shutdown '08 Schedule



RPC Factory:

Dark Current test stand

in design due 9/30

Mu Trigger FEE upgrade:

Rack assembly

installed in North by, South by 9/30

N&S platforms Fabricate & install

install South by 9/30 (Pearson)

Rebuild Bridge & Eyebrow

Done

Prep work for platforms (water/elec)

water done, elec. By 9/5

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

Station 1 & 2N Done, Sta 3N by 9/15,
Sta. 1,2 & 3S by 10/31

FEE water and dry air installation

Station 2N Done, Station 1N by 9/15,
Station 3N by 9/30, Sta. 1,2&3S 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

Install S rack cooling & electric

Oct.after CM moves north

Rack room electronics, etc.

Sep.- Oct.

Disassemble station1 scaffold

complete by Oct 15

Testing

Sep.-Nov. Complete by 11/30

Shutdown '08 Schedule



Technical Support 2008

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 Sep 30
RPC prototype gas system	In progress complete by Sep 30
Move shielding for installation	July - Sep [Pearson]
RPC prototype cable routing & support	Aug - Sep
Modify crystal palace & vapor barrier	July - Sep [Pearson]
RPC prototype install	
(RPC2 - PHENIX)	Sep. - Oct.
(RPC3 - C. Pearson)	Sep. - Oct.
Install rack in tunnel south	Install by 10/15
Replace tunnel shielding/Vapor Barrier	Nov. [Pearson]
Connect electronics/gas	Sep. - Nov.
MuTr Decapacitations (Sta. 1&2 S)	Mike Leitch will be back 9/8/08
	Decaps to be performed as sched permits
	in progress (on going fill-in)
Fan Tray maintenance	
PC1 west work (needs planning)	Oct. 15

Shutdown '08 Schedule, cont'd

Technical Support 2008

CM Crane Install	[postponed indefinitely?]
HBD Install	Oct. 27?
DC East?/West Repairs	Nov. 15
Remove all inst'n equipment	
Sta 1 (from south)	Remove by 1/15
Sta 2/3 scaffolds	Remove by 11/15
all other testing equipment	Remove by 12/1
Prep for shutdown 2009	
Gap 5 N piping and cable tray re-loc.	Oct. - Dec
Gap 2 N cable tray & crate re-mounts	Oct. - Dec.
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
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

VTX prototype design support

NCC prototype design support

HBD support

VTX fabrication tooling design

VTX installation design

FVTX design/engineering support

Support review 9/11 w/Walt

In progress finish in Sep

as required

Sep - Oct

Oct - Nov

as required

Shutdown '08 Electrician Work

- 1) **Run Power to new MuTrgr FEE racks on MMN and MMS**
- 2) **Install power feeds to RPC north & south tunnel racks from IR power panels.**
- 3) **Install new UPS in Gas mixing house.**
- 4) **Install power and signal cable tray (ceiling suspended) for new DCM rack row – north of existing DCM racks.**
- 5) **Assist in signal and LV cable installation for MuTr/RPC upgrades as necessary.**
- 6) **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.**
- 7) **Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).**

New FEE Platforms & Modified Bridge Parts



Need to modify cable tray and water manifolds

Bridge modifications are complete

Eyebrow reinstalled

Technical Support 2008



MuTrgr FEE
South Rack

Ready to be
installed

MuTrigger FEE Rack Utilities

Technical Support 2008



MuTrigger FEE Installation

Technical Support 2008



Station 2 Cooling water and dry air is done

MuTrigger FEE Installation



Station 1N all chasis installed, cooling water and dry air installation is in progress

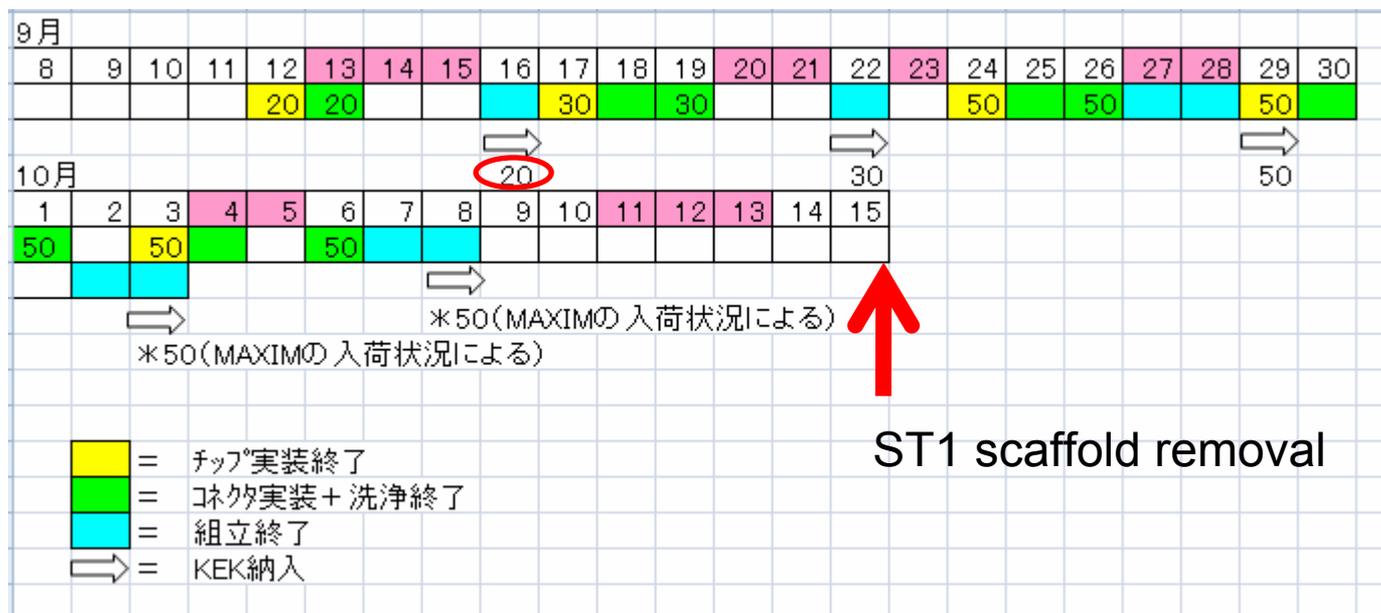
MuTr FEE upgrade status

Tsutomu Mibe (KEK)
for the onsite upgrade team

Production status of ADTX board

- Mass production is ongoing.
- First 20 boards arrived at RIKEN
 - QA being done
 - Will be shipped on Sep 11th.
 - Start installation from the week of **Sep 22**
- Need total 40 boards to cover whole station 1
- Latest mass production schedule:

All prep and testing has to be finished by then



Chassis Status

- Chassis Mount :
 - Completed mounting chassis to Station-1 Bottom Octant (Carter)
 - Waiting for balcony to access Station-3 Top Octant.
 - All other chassis were mounted.
- Water plumbing :
 - John T + Mike Lenz + Carter + Yuta Sada (support)
 - Working on station 1
 - All MuTr.N power locked out during plumbing work.



ADTX-FEE signal cable



- Managed to run MuTr calibration
- Started connecting FEE-ADTX cable and noise measurement
- Completed station 2 octant 7
- Remote assistance from Mike Leitch.
- Plan to try station 3 bottom octant today, and station 1 next.
- Mike will assist us next week.

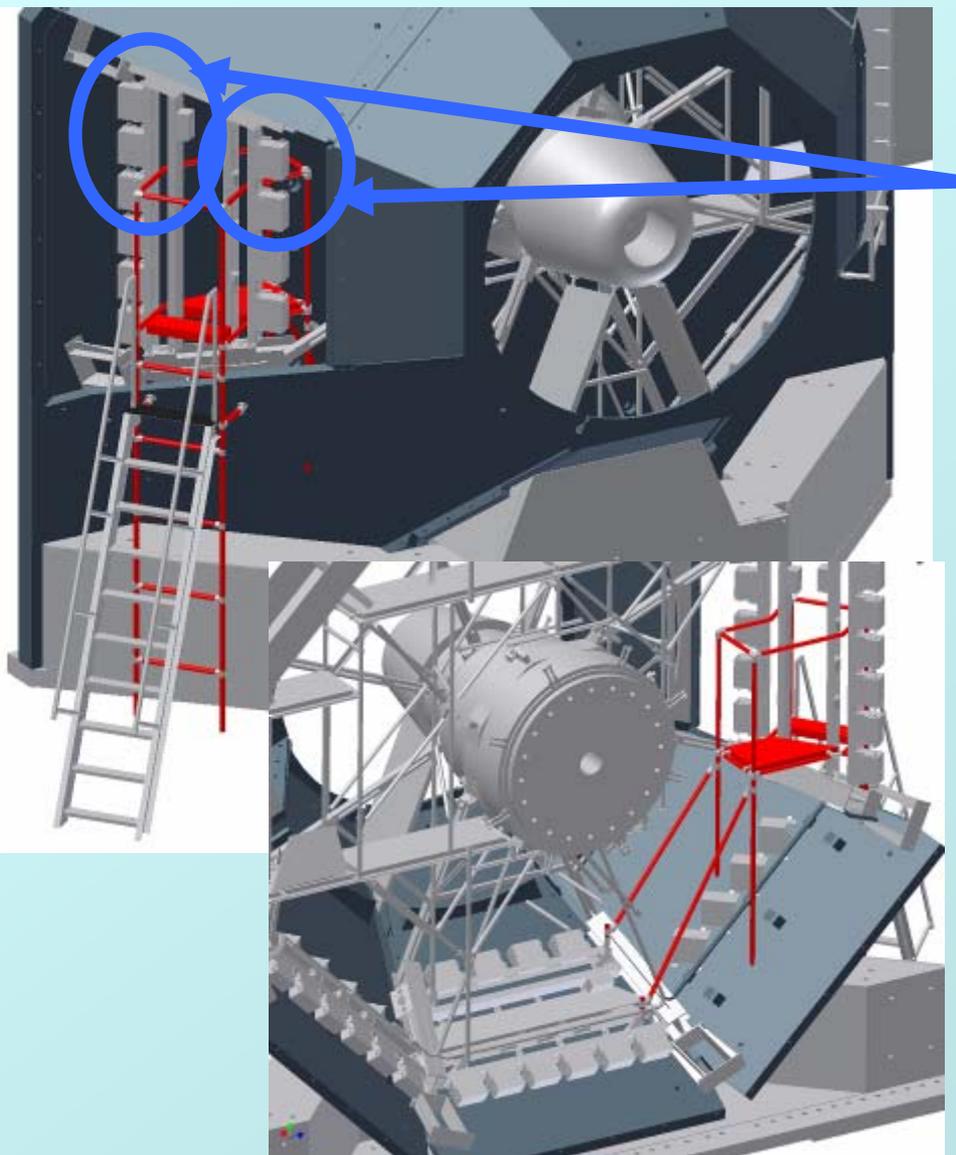
LV status

- Working on cut and connect LV cables to the rack (Frank, Itaru, Yuta)
 - LV cable length was too short for top three octants (station 2 and 3) Plan to put extension.
- Power supply to the rack (by next Tuesday)
- LV distributor's front panels (next Tuesday)
- LV control.
- Voltage tuning at the distributors.

Optical Cable

- Completed running five more trunk cables from rack room to IR (Paul, Itaru)
- What needs to be done
 - Signal transmission test for new cables (scheduled next week)
 - BCLK distribution chain test (GTM-GFO-GBO-OFO)

MuTrigger FEE upgrades in MMS in support of RPC prototypes



Design effort and material ordering are in progress

Technical Support 2008

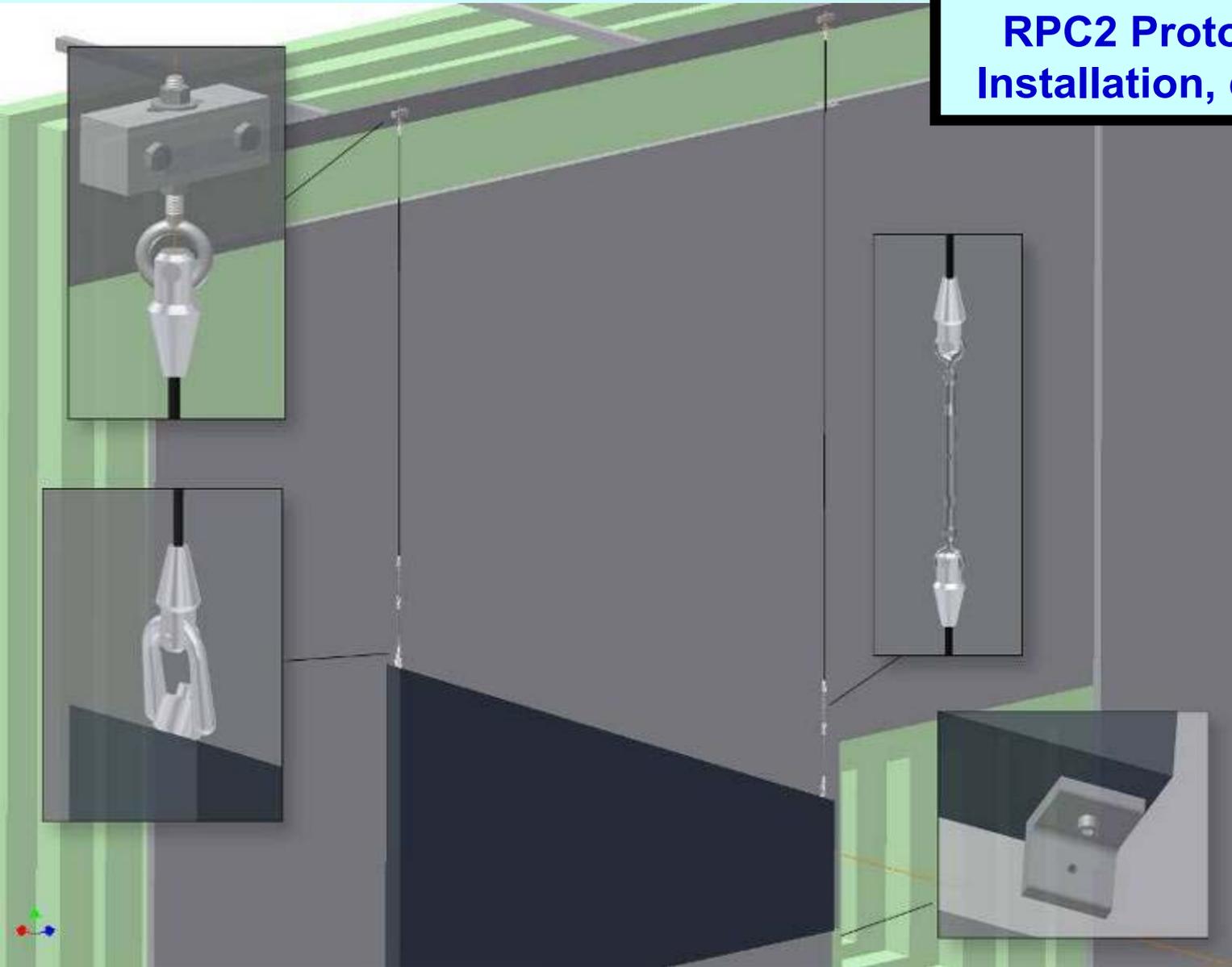
MuTr Decapacitations



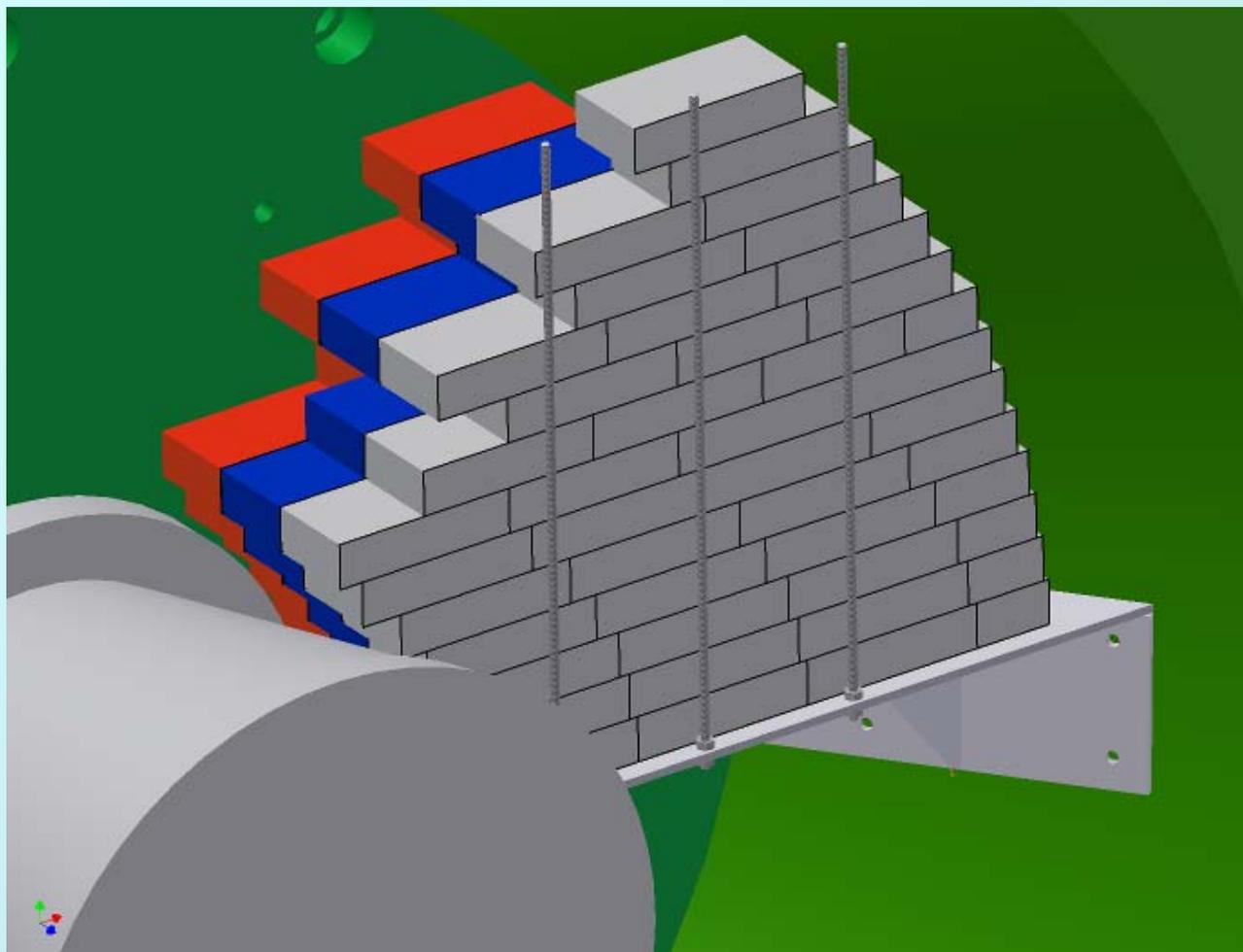
MuTr group needs this setup from last year to work on decapacitations in the south magnet

RPC2 Prototype
Installation, cont'd

Technical Support 2008



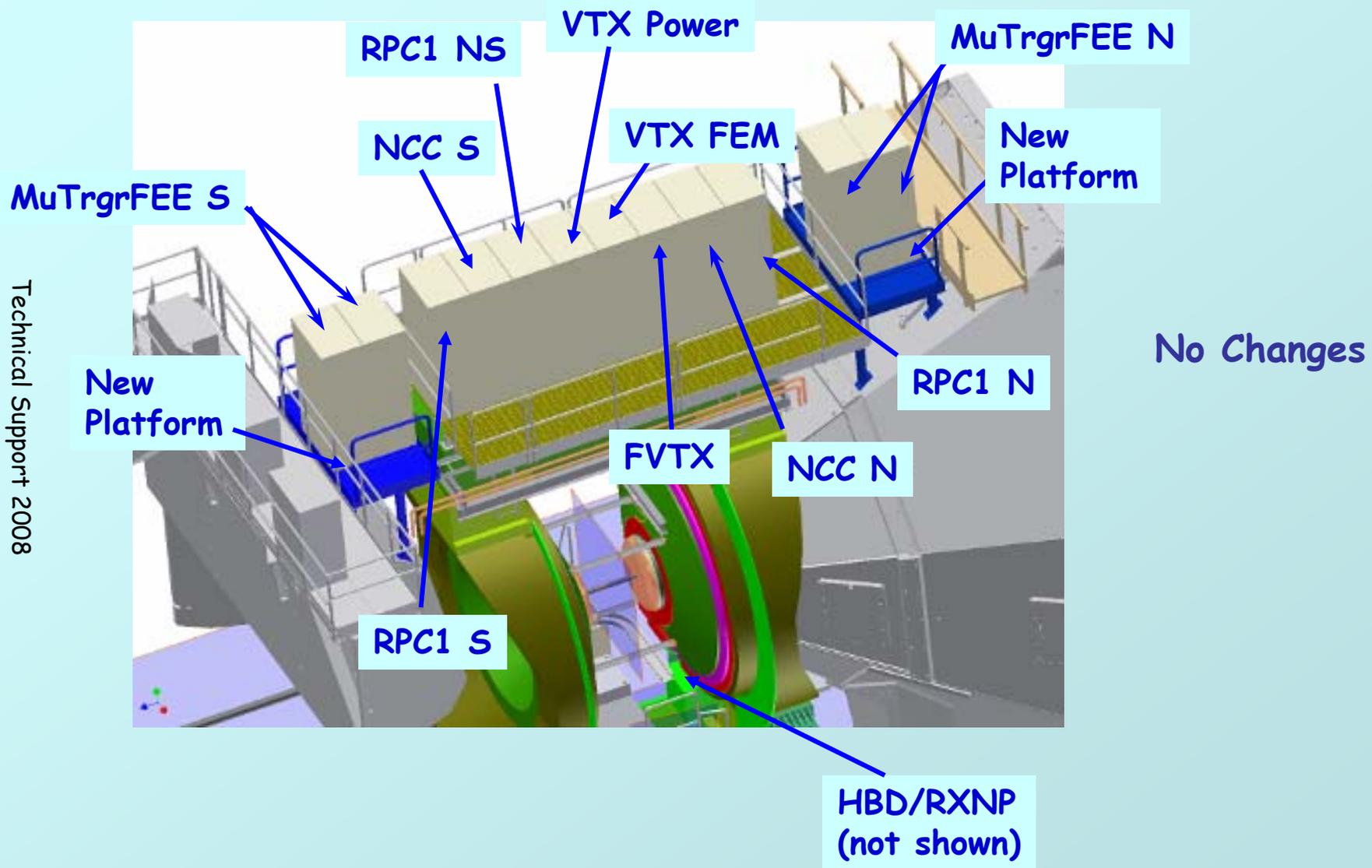
RPC Absorber Concept



RFQ placed with CS

Technical Support 2008

Detector upgrade Rack allotments

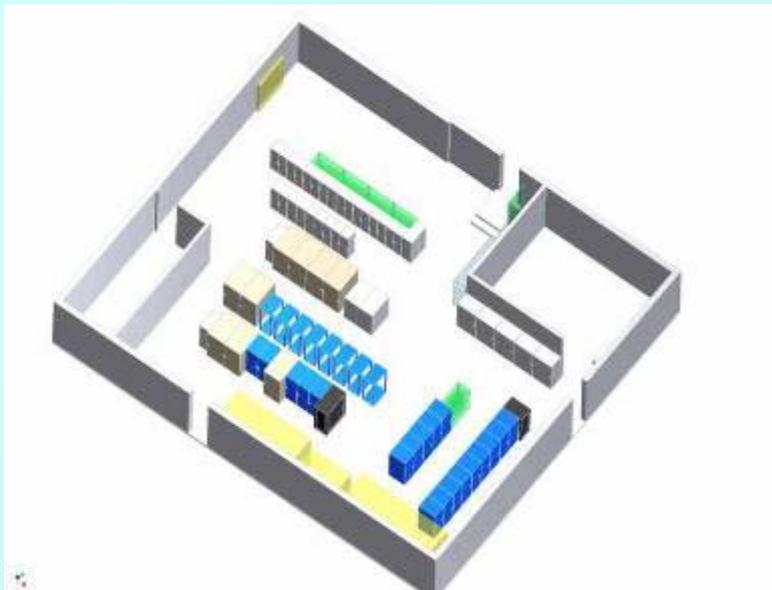


Technical Support 2008

No Changes

Rack Room Reorganization

Inventor model in progress



Technical Support 2008



SF6: The dangers of inhaling it

Where To Find PHENIX Engineering Info

Technical Support 2008



Now that summer is about over, we can get back to what's important

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