

PHENIX WEEKLY PLANNING



10/15/2009

Don Lynch

PHENIX
WEEKLY
PLANNING

Completed Tasks

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Task

Start of shutdown tasks

Erected scaffolds in stations 1, 2 and 3 of MMS

Tools for RPC Factory: tilt table and burn in test stand

Designed and fabricated RPC installation components, fixtures

Procedures and work permits

Designed, fabricated and assembled PC1 repair fixture

Installed station 1 MuTrigger FEE upgrades

Repaired faulty DC FEMs

Removed HBD East for repairs & Reinstalled

Massive prep for installation of RPC3 North

Replaced failed PC1 module and associated PC1 repairs

Installed RPC3 North east & west bases

DC East Repairs

Installed 1st & 2nd RPC3 N $\frac{1}{2}$ octants & Tested in place

HBD re-cabled and aligned

MuID steel top RPC3 N support brackets installed

3rd & 4th RPC3 N $\frac{1}{2}$ octants ready for installation

- Stencil/permanent mark RPC3 lifting fixtures
- Remove prototype absorber
- Install 6 wall tracks (pitch control)
- Install unistrut vertical rails on east and west bases
- Test 1st two $\frac{1}{2}$ octants
- Install and test 14 more $\frac{1}{2}$ octants
- Install gas system and distribution
- Install angle supports on top of MuID steel 5
- Restore gap 5 piping and wiring
- Install 2 Racks in west trough
- Install rack components and wire up $\frac{1}{2}$ - octants
- Install new vapor barrier
- Install heaters and thermostats
- Re-Install shielding
- Final wiring and commissioning

This Week 10/12-10/16

Task Start Date End Date

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Install MuTrigger FEE station 2/3 air & water plumbing and test	Done	Done
Prep RPC3 N racks for installation	In Progress	10/9
Analyze and test EC dumbwaiter	In Progress	10/31
Install new gap5 N cable & pipe supports, cables and piping and leak test piping	In progress	10/31
MuTr HV and FEE test and evaluation as MuTrigger FEE's & RPC's are installed	In progress	11/30
RPC3 North Installation of remaining 14 $\frac{1}{2}$ -Octants	In Progress	10/31
Close MMN Hatch and closeout WP	10/26	10/26
Install 2 RPC3 N racks	10/1	10/30
Install rack components in RPC3 N racks	10/1	10/30
Attach cables to RPC3 N racks and to Detector $\frac{1}{2}$ octants	10/1	10/30



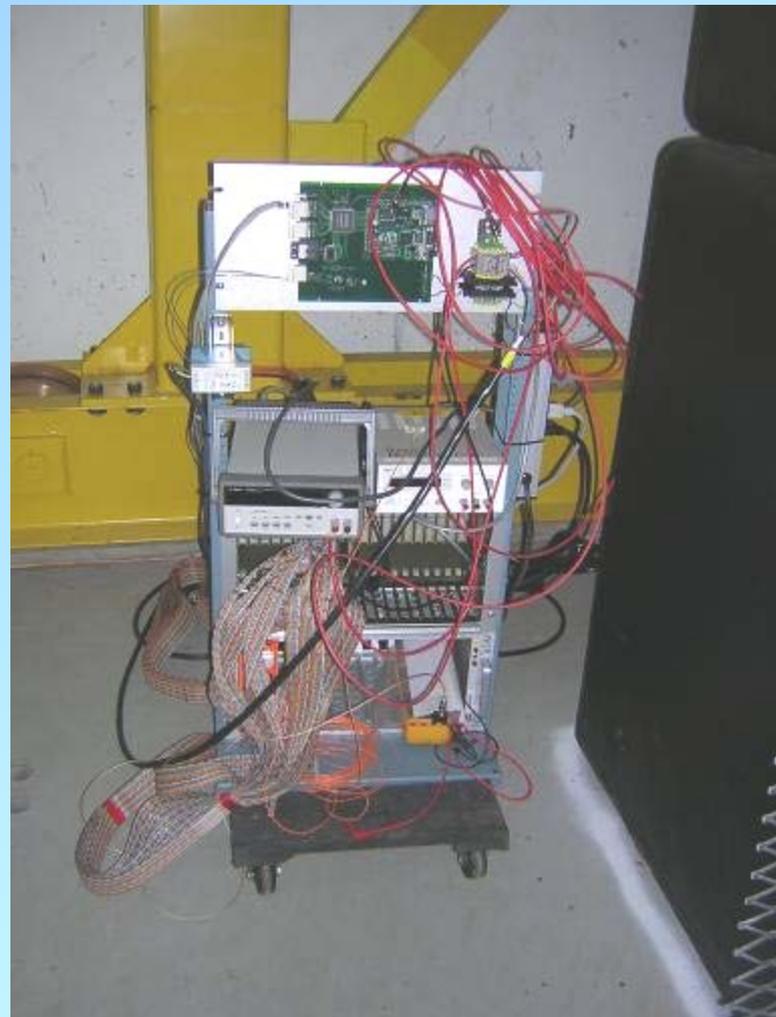
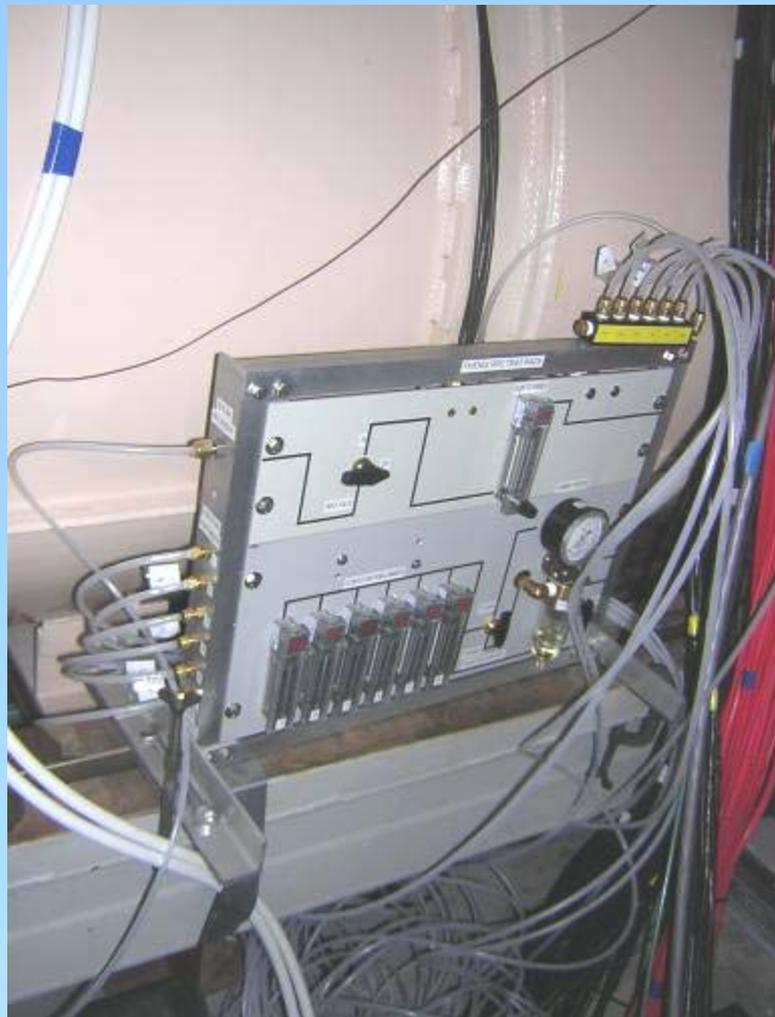
$\frac{1}{2}$ octant production at the factory



Last few $\frac{1}{2}$ octants being assembled

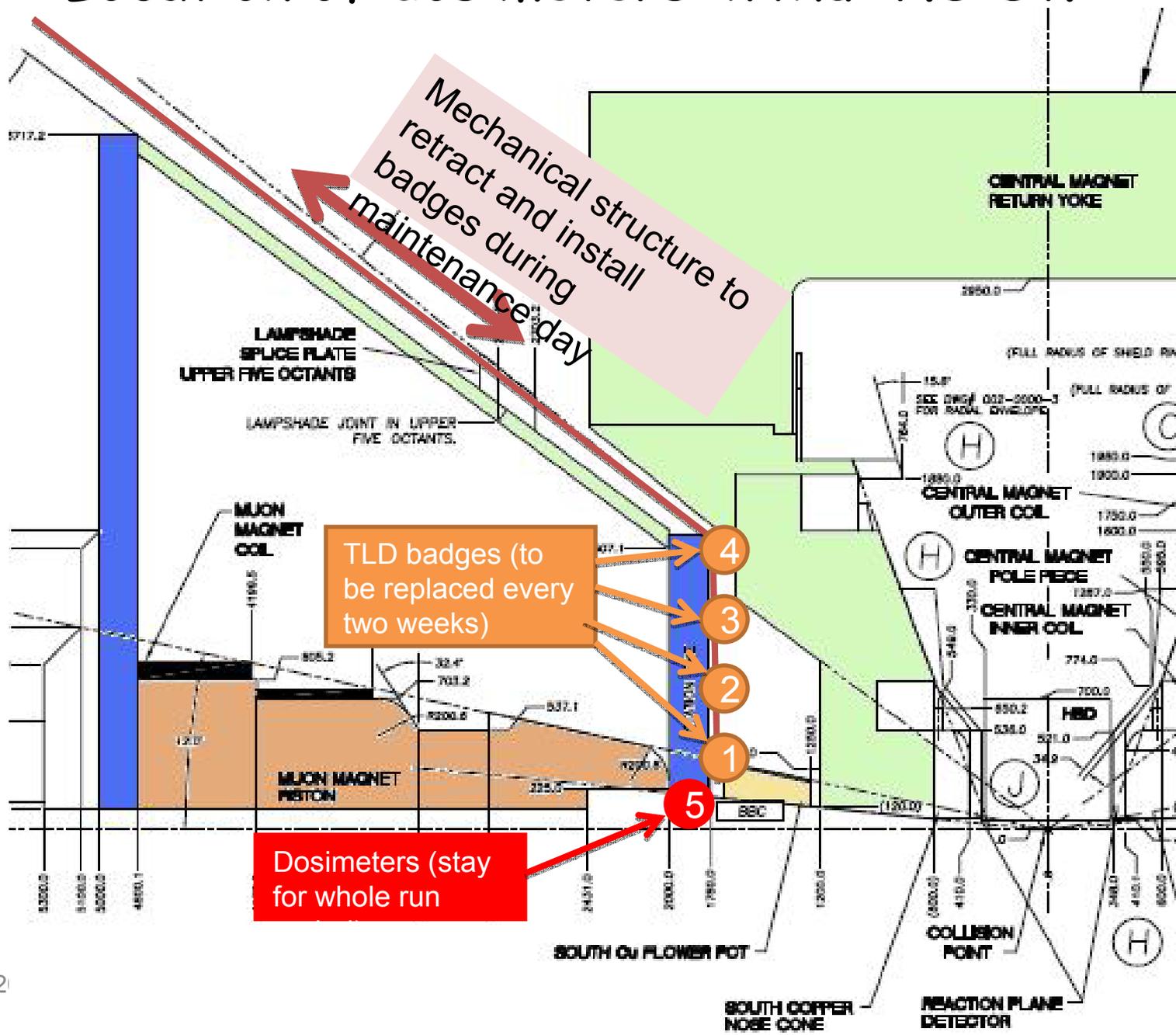
HO's W5 & W6
QC checks







Location of dosimeters in MuTr.S St.1



Continuing Tasks currently underway (elec.)

Task

Start Date End Date

Install LV Dist modules in MuTrigger S.	In Progress	12/1
Remove temporary MegaPAC in sRPC1 rack and install new full MegaPAC and finish controls for it	7/20	12/1
VTX/FVTX LV Dist system evaluation (VTX Done)	In Progress	12/1
Prep for production of up to 39 boards in 4 crates (VTX/FVTX)	In Progress	12/1
VTX/FVTX cooling system interlock design	7/20	12/1
Evaluate possible design for 4x1 GL1 L1 triggers	In Progress	12/1
Rack room re-organization	In Progress	12/1
AH Crane 110 switch for lockout	In Progress	12/1
Test/replace rack transient suppression	7/20	12/1
Cordless phones in tunnel	7/20	12/1
Individual relays on all HV supplies	7/20	12/1
Replacement OPC server computers	In Progress	12/1
Replace old PCI type RS485 interface boards with USB-Fiber and Fiber-RS485 system	In Progress	12/1

900N-120P0R1-ACUHZICM1

More Continuing Tasks currently underway (mechanical)

PHENIX
 TECHNICAL SUPPORT
 NOON

Task	Start Date	End Date
Design supports for Beampipe upgrade	In Progress	11/30
Fan Tray replacements (as time permits)	In Progress	11/30
Design support for FOCal	In Progress	11/30
Design support for FVTX	In Progress	11/30
Design & Fabrication support for VTX	In Progress	11/30

Continuing Tasks currently underway (gas)

TECHNICAL SUPPORT NOON

Task

Start Date End Date



Task	Start Date	End Date
Get AC's installed in mixing house	7/20	12/1
Investigate shed/larger bottles for R134A	7/20	12/1
Replace damaged compressed air flowmeter	7/20	12/1
Add check valves to some supply lines (as needed)	7/20	12/1
Design and build heat exchanger for HBD system	In Progress	12/1
Replace/ regenerate HBD purifier and driers (late Fall)	In Progress	10/9
Send mass flowmeters out for recalibration (DC/PC, MuID, TOF.W)	7/20	12/1
Replace/upgrade gas house PC's	In Progress	12/1
Run gas lines to North tunnel	7/20	12/1
Design and build gas humidifier	In Progress	12/1
Layout and build North distribution panel	In Progress	12/1

October Schedule

Task

Start Date End Date

PHENIX
 CRISTAL
 PALACE
 NORTH
 TUNNEL
 PROJECT

Commission RPC3 N racks and detectors	10/12	10/30
Install new Gas Pads for Ar Dewar & Empty bottle storage	10/15	10/30
Final leak test new Ar dewar/vaporizer and Closeout	10/15	10/31
Install Empties racks on gas pad	10/15	10/31
Remove Station 1 North scaffolding	10/26	10/28
Remove MMS Sta 2/3 scaffolding	10/26	10/30
Reinstall MMS lampshades	10/30	11/3
Install new PHENIX north tunnel thermal/vapor barrier replacing crystal palace	10/31	11/15

Expected IR Configuration During Shutdown '09

- Now-10/30 MMS south, CM in run position, EC in AH
WC in west position (against wall), scaffolding
in station 1 and station 2/3 south
- 10/31-11/10 MMS, CM & WC positions TBD, EC in AH
- 11/10-12/1 MMS & CM in run position, EC and WC can be
moved east west ~3 ft

These dates are approximate and subject to change

November Schedule



Task

Start Date End Date

900N
120P
100P
80P
60P
40P
20P
10P
10A
12A
2A
4A
6A
8A
10A
12N

Task	Start Date	End Date
• Install heaters and thermostat(s) for RPC3N thermal control	11/2	11/6
• Reinstall PHENIX North tunnel shielding (3 days)	11/2	11/6
• Replace EC water hoses below EC and test	11/2	11/7
• Cooldown for Run 10 Starts	11/7	11/7
• Move MuID Collars to IR	11/7	11/7
• Disconnect electric & Fiber in EC	11/2	11/7
• Remove ladder & dumb waiter from EC & Fold up EC platforms in AH (1 day)	11/9	11/10
• Veterans Day Holiday - no work	11/11	11/11
• Remove IR Floor plates and move 12 ton cart to AH	11/12	11/12
• Move EC to IR	11/12	11/13
• Reconnect electric and fiber to EC	11/16	11/20
• Reinstall ladder & dumb waiter on EC & Fold down EC platforms in IR (1 day)	11/16	11/20
• Pink sheets, white sheets, blue sheets	11/16	12/1
• Move MMS north, Install MuID Collars	11/23	11/25
• Assemble shield wall base and wall in AH	11/23	11/30
• Thanksgiving Holiday - no work	11/26	11/27
• Roll in shield wall	11/30	11/30
• Start Run 10, All shutdown activities completed	12/1	12/1



2009 Building Maintenance Issues

PHENIX
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 170P
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- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- Improved Rack Room AC performance: New AC on order
- General maintenance for Trailer Offices and Gas Mixing House stairs, ramps and siding, gutters, etc. (cleaning and repairing worn/rotted wood): Carter has placed work orders
- Icy conditions at mixing house north stairs: Need new Mixing House Gutter
- Purchase and install 2 AC's in Phenix Gas Mixing House
 Suggested model : McMaster part number: 1817K89 (19.5 K btu)



1. ODH1 update:

If you had training last year you need to send in the medical clearance form (last year's expired after 6 months. This year's is good for 18 months... if you need a copy email me and I'll send you a pdf), and take the web ODH1 course when your current training expires (probably in January). You don't need the practical training, it has been changed from 1 year to 3 year renewal.

If you have not taken the training, but will need to access the tunnel, north or south, or anywhere else posted as ODH1, you will need the medical clearance form, the ODH1 web course and the AD-ODH1-TRG practical hands on training. See me about scheduling.

Where To Find PHENIX Engineering Info

We're moving rapidly through the fall. Just over 2 weeks until November and time to button up.



TECHNICAL SUPPORT NOON

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

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

