

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT ZONE

No Planning Meeting This Week Due to Holidays



11/22/12
Don Lynch



This Week

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- Short Week - Thanksgiving and Black Friday Holidays
- Test new CM Hoses - Done
- Survey Beam pipe - Done
- Continue removing and storing station 2/3 north scaffolding
- Continue installing VTX/FVTX (Install East start Survey)
- Continue VTX Cooling System Upgrade
- Continue RPC3 Gas Recirculation Upgrade
- RPC1 South Cooling Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Substation breaker upgrade/test (CAD) (Dec 1)
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Install MTP patch bay and jumpers for FVTX in counting house. - November
- Add several backup MTP fibers from CH to IR - November

Next Week

TECHNICAL SUPPORT ZONE

- Complete removing and storing station 2/3 north scaffolding
- Continue installing VTX/FVTX (Install east 1/2), finish survey)
- Continue VTX Cooling System Upgrade
- Continue RPC3 Gas Recirculation Upgrade
- Complete RPC1 South Cooling Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Substation breaker upgrade/test (CAD) (Dec 1)
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Install MTP patch bay and jumpers for FVTX in counting house. - November
- Add several backup MTP fibers from CH to IR - November
- Start prep for moving EC to IR

Substation breaker upgrade/test (CAD)



Upgrade & Test to be performed ~Dec 1. Drawings/wiring schemes by P. Giannotti have been reviewed and approved by CAD. Paul will be present and work with line crew to install and with CAD to test (blue sheet test)



Ready for Installation this week (today?)

TECHNICAL SUPPORT NON

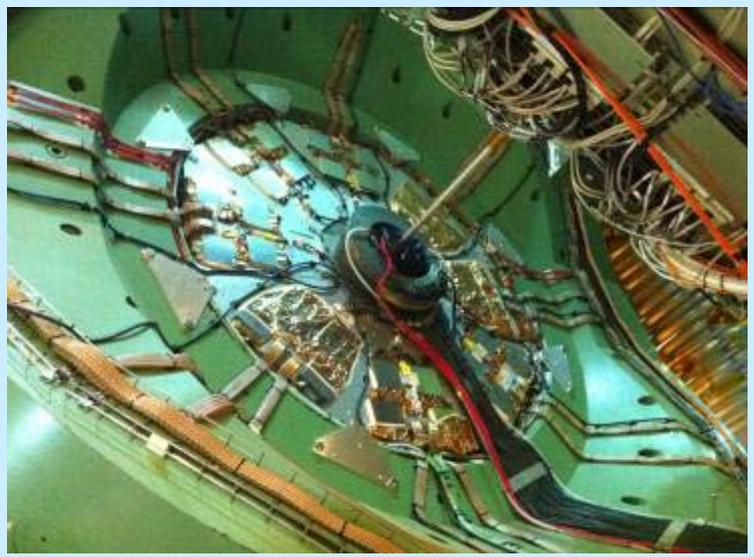


RPC Station 1 North and South Cooling Upgrade & Monitoring



South

South thermocouples installed, cabled and calibrated; cooling upgrade to be completed after North Upgrade and monitoring are completed and CM is moved north to run position

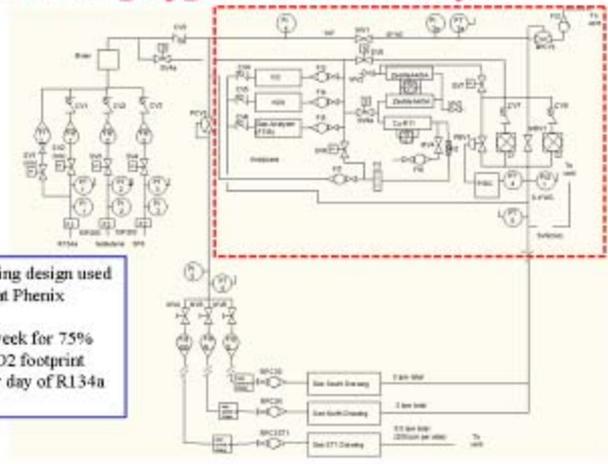


North

Done

TECHNICAL SUPPORT NON

Run 12 Shutdown Work Overview Gas/Cooling Systems Recirculating Upgrade to RPC Gas System



•Based on working design used for many years at Phenix
 •Save money
 •\$3k per week for 75%
 •Reduces lab CO2 footprint
 •60 lbs per day of R134a

June 20, 2012

15

RPC Recirculation Upgrade

Recirculation Piping installation - In Progress

GMH rack moving along Purification system controls assembly, installation and testing - D. Northacker to finish in December

PC upgrade - November

Analyzer procurement in process (~4 months)



VTX/FVTX Cooling Upgrade

- Piping ~ done
- New filtration system in place, mostly connected
- Big Wheel manifolds assembled ready for installation at 1008
- Chiller 1 repair done



11/22/2012

RPC Background Attenuation Project

TECHNICAL SUPPORT ZONE



Looking towards RPC3 North
← East West →

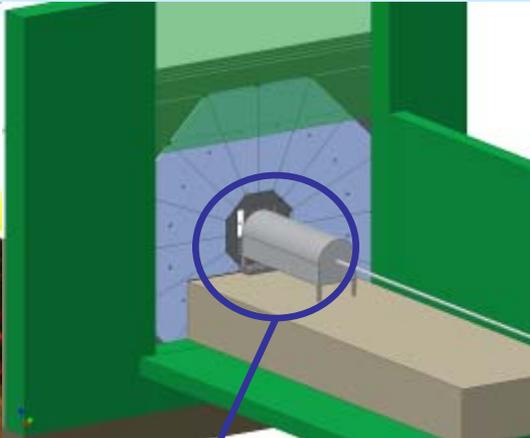
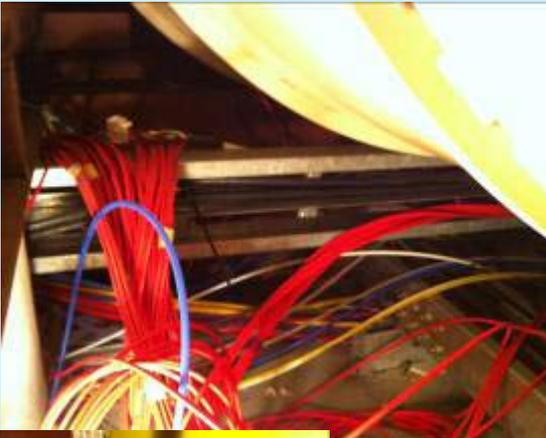
Looking towards RPC3 South
← West East →

Large shielding modifications at Q2 upstream north and south to be planned and installed by CA-D (Dave Phillips) by 12/14/2012. **In progress this week**

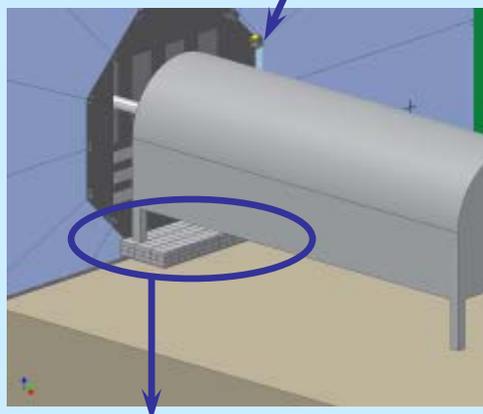
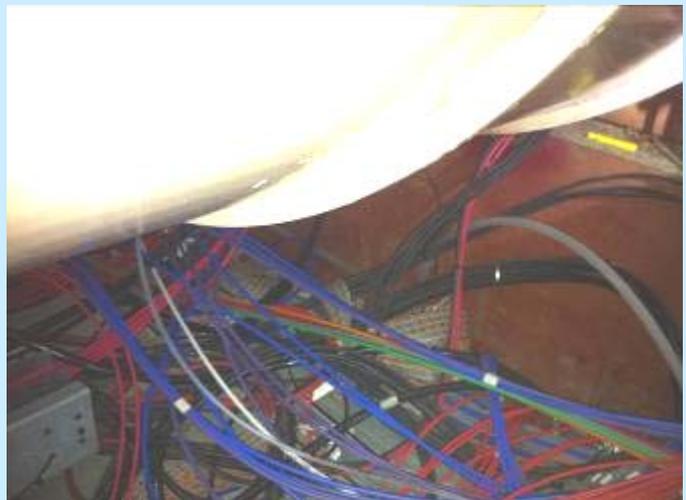
RPC Background Attenuation Project

TECHNICALS

Under DX at RPC3 North
← East West →



Under DX at RPC3 South
← West East →



144 Steel bricks, 2x4x8,
stacked in 3 high, 16 wide, 3
rows, respectively by 11/21



Window Washer Remote Pin Removal and Winch/spooler safety upgrades

Space available:
16.5" x 27" x 28" h



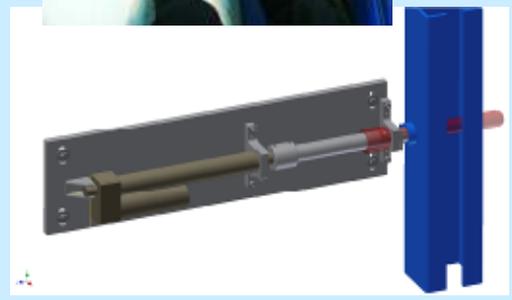
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Manufactured by Allied Power Products, Inc.

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ALL FRAME SIZES

Create perfect line spooling for any winch or hoist.

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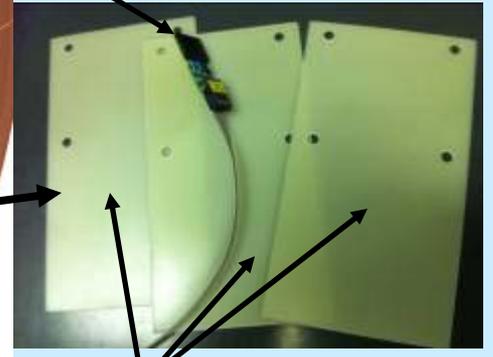
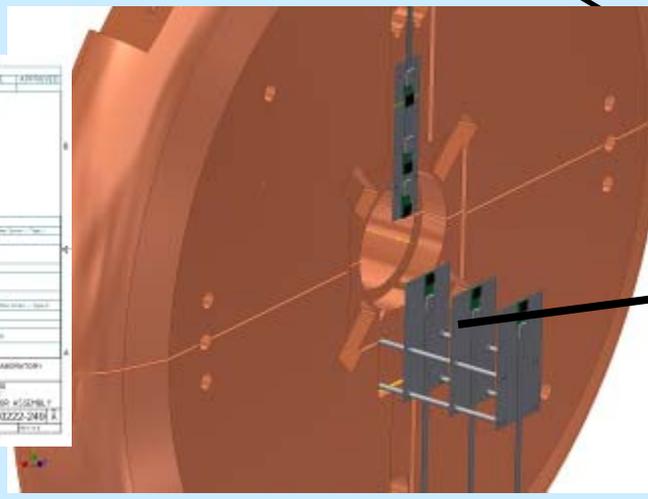
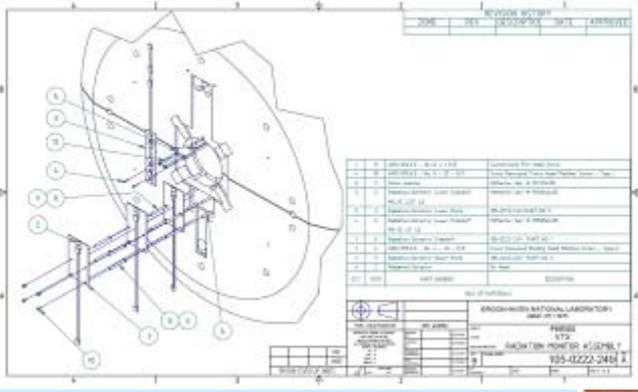
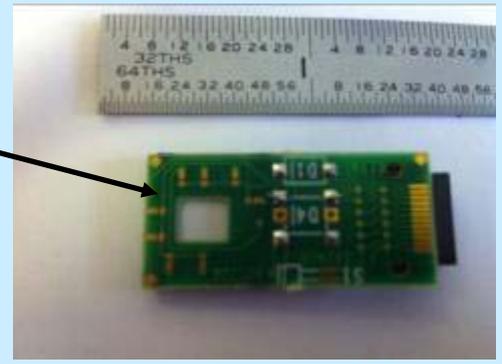
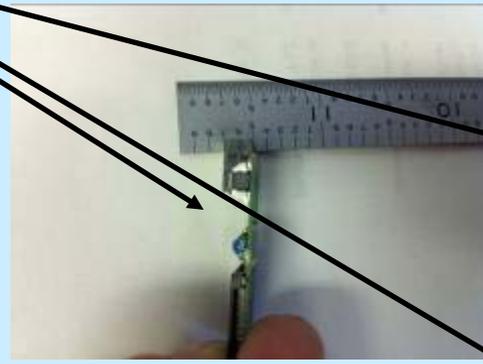
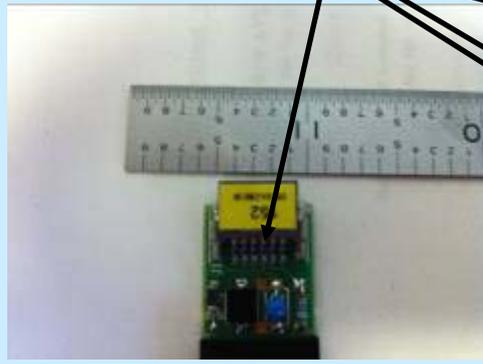
Scaffolding Storage Boxes

TECHNICAL SUPPORT



Rad monitor sensors

VTX/FVTX Radiation Monitoring Test



G-10 Sensor mounting pads

Mount 6 Rad monitor sensors in the south nosecone cavity, 2 sets of 3, 1 set at 3.5, 8.5 and 16.2 mm radially from nominal beam axis and adjacent to the nosecone, the other 3 at 3.5 mm radially and varying z coinciding with FVTX disks

Other Subsystem Work and Future Upgrades related Work

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New Electrical Work for 2012 Shutdown, to be accomplished as time is available

- 1. Remote breaker switch - parts ready install **partially completed. Repaired broken breaker installation and blue sheet test of breaker scheduled fore Dec. 1**

PHENIX Electronics Upgrades

- 1. Install second MODBUS server in counting house. - TBD

Additional Work for 2012, not yet scheduled, to be fit in as available

- 1. Replaced aging magnet hoses (CM only) - **Done**
- 2. identify obsolete services passing through sill and remove them. - As time is available
- 3. Cover for services coming from IR through sill. - After Shutdown
- 4. Plan for stripping out TEC electronics and services to free up TEC racks. - As time is available



Remaining Work Permits/Procedures for Shutdown 2012

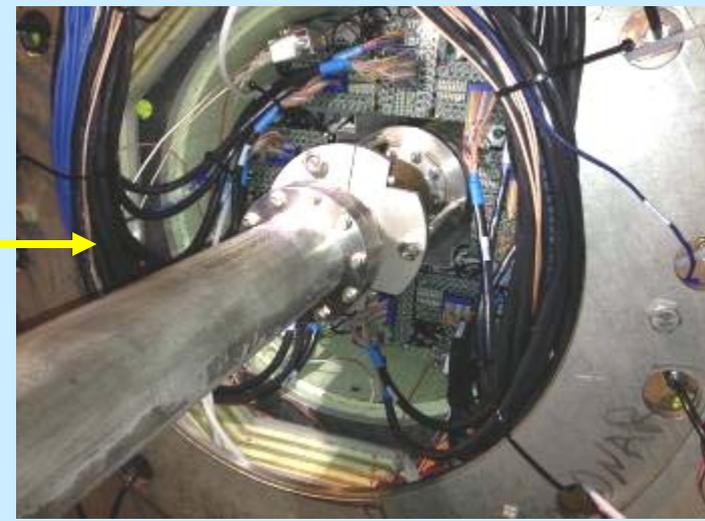
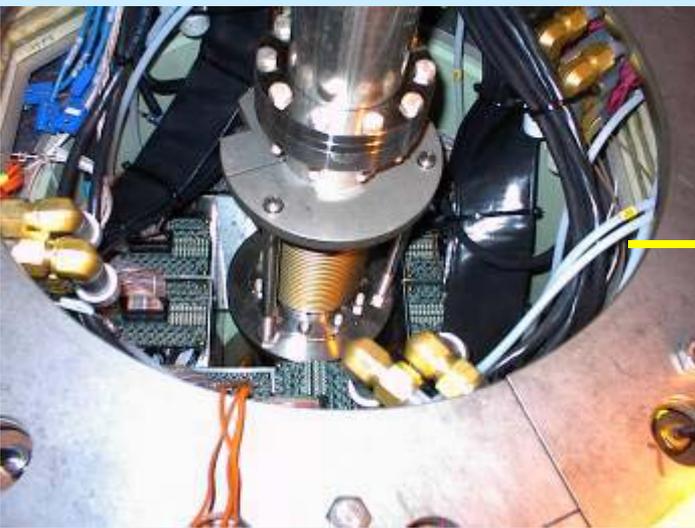
- RPC Background Attenuation Shielding @ DX Magnets - Done, at CAD for approval
- Window Washer autospool and remote pin removal upgrade - Done
- MuID Collar IR Holding Area Support - Done
- End of Shutdown (PHENIX) - Done
- FVTX Radiation monitoring test - Done

TECHNICAL SUPPORT NON



Existing vacuum bellows anti-squirm
In MPC S Cavity

Proposed vacuum bellows anti-squirm
In MPC S Cavity to accommodate MPC-Ex



MPCS Flat cables replaced with round cables.

TECHNICAL SUPPORT NON

Re-cable, re-hose and test	Done
Re-capacitation and air manifold upgrades	
Re-install MMS lampshade	Done
Capacitor Clamps and air manifolds (North)	Done
Remove station 2/3 north scaffolding	11/27/2012
Test, survey (at Chemistry and IR) and re-install VTX/FVTX	10/26-11/28/2012
MuID IR storage support	Done
RPC 1 North cooling upgrade	Done
Remove station 1 North Scaffolding	Done
Veterans Day Holiday	Done
Move CM To run position, Open station 1 South	Done
RPC 1 South cooling upgrade	11/27/2012
VTX Cooling System Upgrades	12/1/2012
Re-install MMN access panel on lampshade	11/30/2012
Install MTP patch bay and jumpers for FVTX in counting house.	12/5/2012
Add several backup MTP fibers from CH to IR - November	12/5/2012

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Prep for EC roll in	11/12-11/30/2012
Thanksgiving Holidays	11/22-23/2012
MuID Collars to IR, plates, manlift and 12 ton cart to AH, & Roll in EC	12/3-12/7
RPC Recirculation Upgrade (except	12/21/2012
Substation breaker upgrade/test (CAD)	12/1/12
RPC Shielding under DX magnets	12/21/2012
Prep IR for run	12/7-12/12/2012
Install VTX/FVTX Rad Monitors	12/7/2012
RPC tunnel Shielding (Dave Phillips)	12/14/2012
Window Washer pin & spool upgrades	12/21/2012
Christmas Holidays	12/21-1/1/2013
Pre-run commissioning and prep for run 13	1/11/2013
Pink/Blue/White sheets	12/12-1/11/2013
Start run 13	2/11/2013

Where To Find PHENIX Engineering Info

TECHNICAL SUPPORT ZONE

No Thursday planning meeting this week due to thanksgiving and black Friday Holidays



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

