

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT ZONE



1/5/2012
Don Lynch

This Week

- Continue RPC1 N & S commissioning
- Complete VTX/FVTX cabling & fiber installation
- Pink/White/Blue sheets
- Continue prep for run 12
- Shielding in RPC3 area (install rails and extended shield)
- Prep for Cosmic Ray Tests
- Complete building shield wall
- Move MMS to run position
- Install MuId collar
- MuTr S flowmeter upgrade
- Install MPC electronics Racks ????

Next Week

- Continue RPC1 N & S commissioning
- Complete VTX/FVTX thermocouple installation
- Finish Pink/White/Blue sheets
- Continue prep for run 12
- Shielding in RPC3 area (install rails and extended shield)
- Cosmic Ray Tests
- MuTr S flowmeter upgrade
- Install MPC electronics Racks ????

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- CM alignment stops
- Upgrade AH crane
- MPC electronics rack upgrade installation
- IR run prep, Pink/Blue/White sheets
- New and upgraded full detector commissioning
- Run 12 cooldown

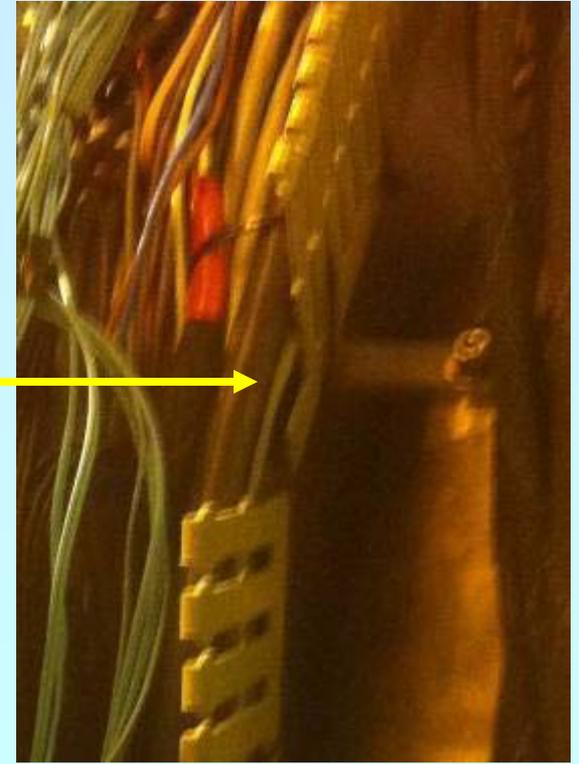
Design & Fabrication Done,
 Installation when convenient
 After 1/17/2012
 1/3/12
 12/22-1/6/2012
 In progress to 1/16/2012
 1/17/2012

VTX/FVTX Tasks

2011 Shutdown

- FVTX/VTX east cable routing, plumbing, QA tests
- FVTX/VTX final electrical/fiber/plumbing/monitoring installation
- FVTX connector restraint

In progress
 In progress
 In design



RPC Tasks

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- RPC1 north and south commissioning
- RPC3 Shielding
- RPC Hodoscope

In progress
 Large Blocks placed Rail extensions for
 garage in progress
 Mech Installation Done
 Cabling by 12/31

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- Commissioning

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- MPC electronics replacement
 - Build racks 1/10/12
 - Install & wire racks 1/10/12
 - Test 1/16/12
- RPC hodoscope installation
 - Run cables 1/10/12
 - Test 1/10/12
- Run 12 restoration of detectors
 - EC rewire (power/cable/fiber) Done
 - CM restore magnet power, cooling Done
 - WC upgrades Done
 - Pink/White/Blue Sheets 1/10/12
- VTX restoration
 - Reinstall cables, fiber, cooling, monitoring 1/6/12
- FVTX installation and cabling
 - Racks: assemble, test, install on bridge Done
 - Fiber: install, terminate and connect 1/6/12
 - LV sensor and wedge: fabricate, install, terminate and connect 1/6/12
- Other ??? 1/17/2012

Miscellaneous Gas & Cooling System Tasks

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- Replace MuTr flowmeters (north and south)
- Replace tygon lines (80 lines) from the cooling manifolds to the detector with 1/4" ID teflon tubing.
- Insulate whatever Big Wheel chiller lines in the IR that we can get to to reduce sweating in the IR.
- Build a system to clean the Novec during the run.
- Pixel cooling upgrade for 10° C without impacting strip-pixel cooling.
- Replace all cooling RTD transmitters
- MuID panel circulation. Class one div 2 fans.
- Other

north done, south by - 12/31

Lines ready for installation

AH lines are done

In progress

Ready for installation

Parts here ready for installation

Design in progress?

???



MPC
new
electronics
racks

Looking Ahead to the 2012 Shutdown

Major Projects:

- Remove VTX/FVTX
- Repair upgrade, test, reinstall VTX/FVTX
- Remove/Repair/Upgrade MuTr Station 1 South
- Station 2 South (north side) upgrade
- Station 3 North and South (upper half) re-capacitation and air manifold upgrades
- RPC stations 1 and 3, north and south maintenance
- Other detector maintenance as required
- Infrastructure maintenance as required
- TBD prototype tasks

Infrastructure Issues

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- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.



- Flooding in AH/ Driveway heaving →



- Electronics test/assembly room-to-parking lot door (does not open/close/lock properly - needs to be replaced)

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1. Annual PHENIX Safety Review Action Items:

- Consult with Levesque and Kretschmann about the vertex detectors fiber optics bundles from the fire loading perspective (Kretschmann Jan 15, 2012)
- Review to assure all power supplies are NRTL equivalent compliant and affix respective labels (Giannotti Jan 15, 2012)
- Provide the new flammable gases leak rates (Pisani, Jan 15, 2012)
- Provide the updated gas usage quantities (Pisani Jan 15, 2012)
- Consult with Phillips whether the FR134 is likely to be sucked into the gas mixing house should a leak develop in the shed (Pisani, Phillips Jan 15, 2012)
- Carry out the Blue Sheeting (CAS, Phillips Jan 10, 2012) Phillips
- Provide the calculations for the gas shed (Lynch, Pisani Jan 19, 2012)
- Provide updated sweep procedures (Sampson Jan 15, 2012)
- Carry out an inspection of the installed platform gates (Cirnigliaro Jan 10, 2012)



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2. Annual PHENIX Safety Review Additional General Action Items:

- Update the PHENIX ECR. (Craner, Jan 15, 2012)
- Update the PHENIX work plan (Cirnigliaro Jan 10, 2012)
- Carry out a magnetic safety review (Phillips Jan 15, 2012)
- A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi / Etkin et al Jan 10, 2012)
- Update the documented work procedures. (Lynch Continuing from last year)
- Establish trained PHENIX watch shifts. (O'Brien Jan 10, 2012) (Done)
- Review and update the PHENIX emergency procedure if necessary (Makdisi Jan 10, 2012)

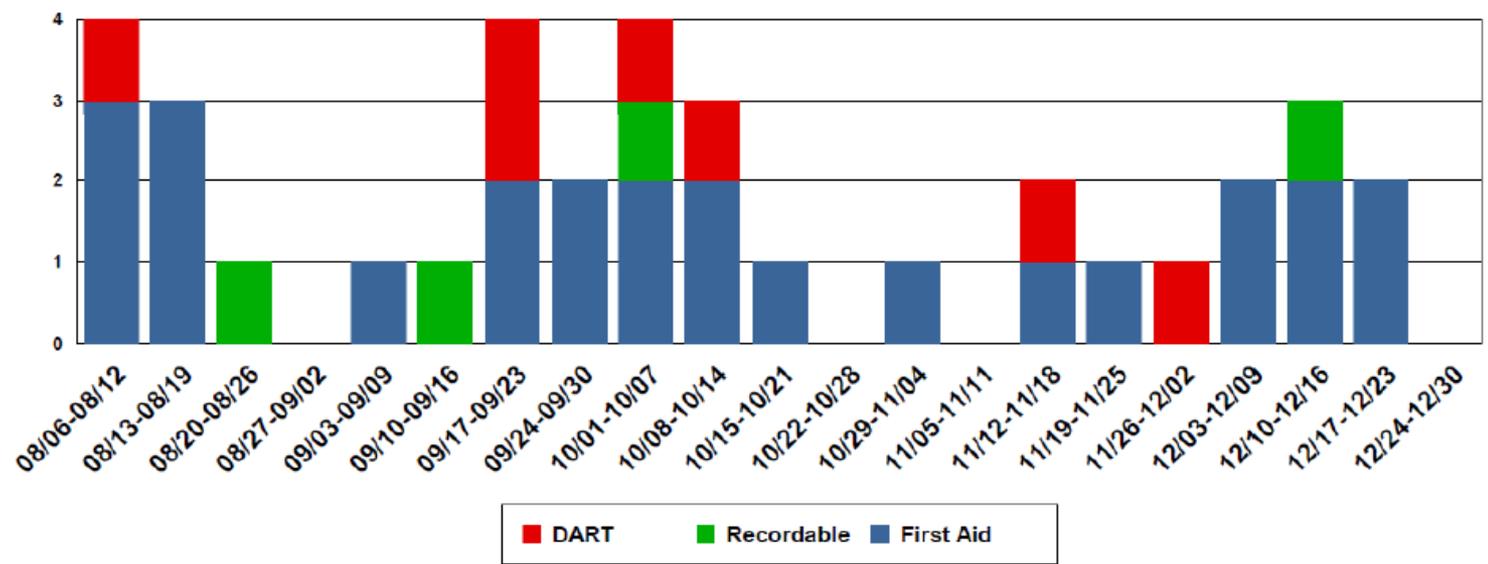
3. Post shutdown project review (PHENIX Engineers & Techs): to be scheduled

4. Tunnels now posted ODH0 - ODH web course needed to enter tunnels. Will become ODH1 on Jan.17 - will need ODH1 web course, medical clearance and survival pak hands on training after Jan. 1.



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Injuries Per Week
As of 12/29/2011



Injury Status:

FY12 YTD: DART – 4, TRC – 6, First Aid – 14
 FY11: DART – 27, TRC – 42, First Aid – 45
 FY10: DART – 19, TRC – 33, First Aid – 52

Recent Injuries		
12/22/11	First Aid	A contractor employee grasped a hot sterno can and received burns to all five fingers. She received first aid treatment at the OMC and returned to work.
12/19/11	First Aid	An employee was looking up at overhead fixtures while walking and tripped over another piece of equipment. At the OMC, first aid was given and he returned to work.
12/16/11	First Aid	A contractor employee was cleaning glass and reached from one side of the counter under a heat lamp and received a first degree burn to the wrist. At the OMC, first aid was given and the employee returned to work.

Recent Events		
12/27/11	SC-BNL	The RCT Facility Support Representative for the Medical Department was informed that radiation contamination was detected on the shoe of 3 workers in the PET Facility, Building 906. They had detected F-18 (FDG compound/Beta-gamma emitter) at 10,000 dpm on the personal shoe of the attending physician, 3,000 dpm each on one shoe of the RCT Technician and the Biologist. The shoes were removed and bagged to allow for short life decay time to expire. The area was checked for further contamination with none found and the shoes will be checked again tomorrow. The physician was preparing for patient injection by withdrawing from the prepared vial solution when the contamination incident occurred.
12/22/11	SC-4	Update to Non-Reportable ORPS issued 12/7/11: The original event was determined to be non-ORPS reportable based on information indicating NYS DEC may consider rescinding the Notice of Violation (NOV). Based on the latest information, once a Notice of Violation (NOV) is issued, the NYS DEC does not rescind an NOV. The notice may eventually be closed out to the DEC's satisfaction if appropriate information is provided to address the issue.
12/21/11	SC-BNL	A high voltage potential transformer experienced an electrical fault, resulting in a failed transformer. In order to remove wires associated with the failed transformer, the AGS Booster had to be shutdown due to a planned power outage.
12/19/11	Non-Reportable	The hydraulic system seal leaked on a Kubota resulting in a fluid spill along Brookhaven Avenue. Fire Rescue and spill response teams responded immediately. The spill was < 5 gallons and was contained to asphalt surfaces so there was negligible environmental impact.

Where To Find PHENIX Engineering Info



Run 12 is just about here.

Another week or so and we're off and running !

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

