

PHENIX WEEKLY PLANNING



Jan. 23, 2014

Don Lynch

This Week

PHENIX
LABORATORY
NORTH

- Martin Luther King Holiday Lab Closed
- Ship sPHENIX Prototype assembly to FermiLab
- Finish Pink/White/Blue Sheets
- Snow Lab Closure $\frac{1}{2}$ day Tuesday all day Wednesday
- Plan/Install MPC-Ex FEM installation platform
- Close east/West F/VTX
- Continue F/VTX commissioning
- Prepare for start of flammable gas
- Start of flammable gas

Next Week

- Plan/Install MPC-Ex FEM installation platform
- Continue F/VTX commissioning
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required

VTX/FVTX commissioning

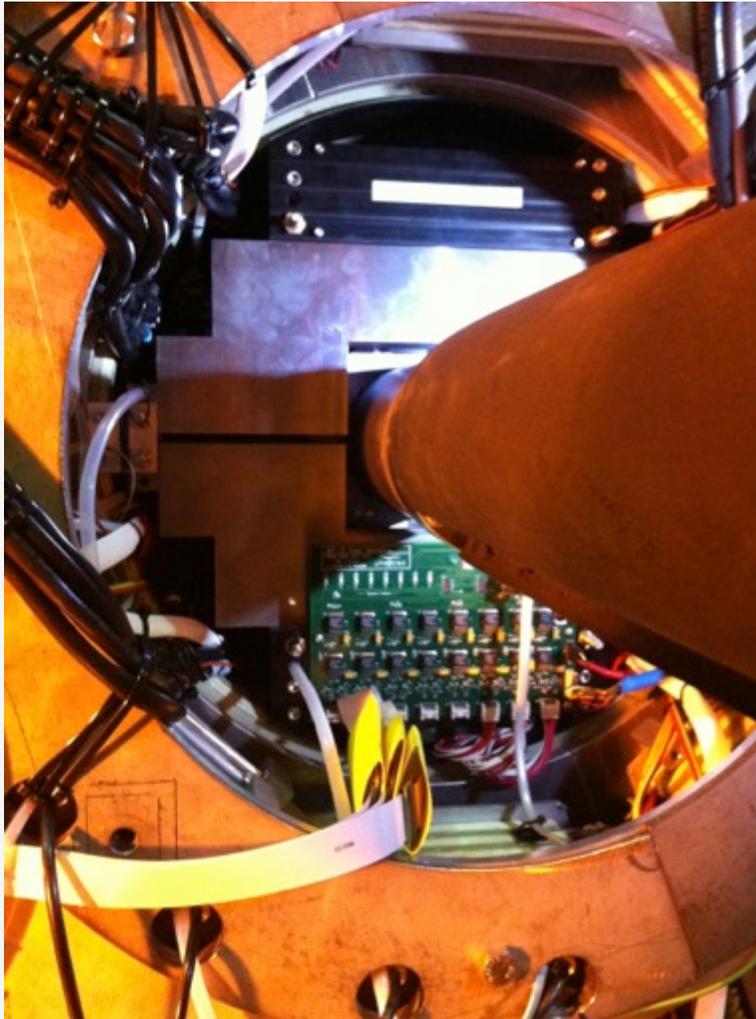


Closed This morning

Commissioning Tests continue

MPC-Ex Initial (Partial) Installation

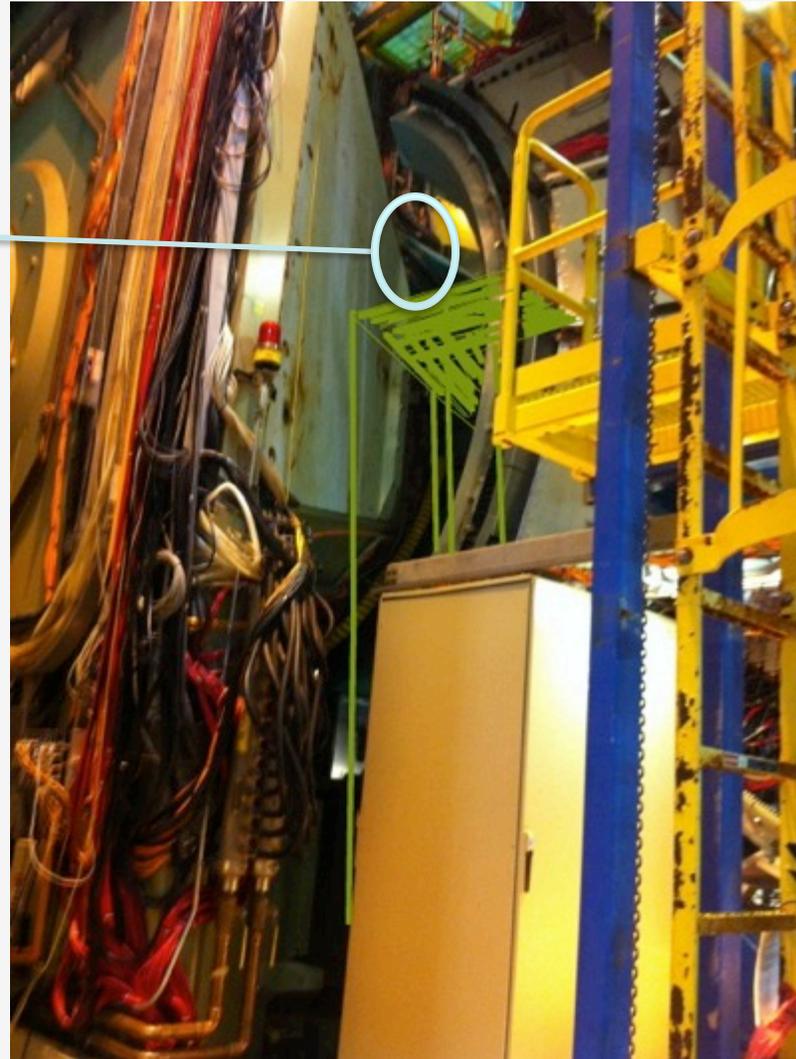
PHENIX NORTH



Mechanical installation complete
Services connected
Rack assembly & FEM assembly in progress

Need a custom Scaffold platform to install FEM boxes in this area

Scaffold to use standard 5 - 6 ft long planks with safety rails and kick plates supported by unistrut legs cross braced .
Access from mid EC platform



2 5'-6' platforms in an "L" shape to access from the EC midlevel platform



sPHENIX Prototype Beam Test @Fermilab

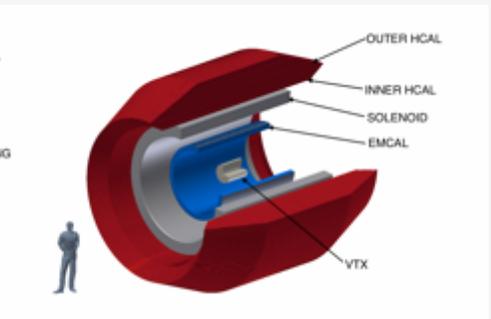
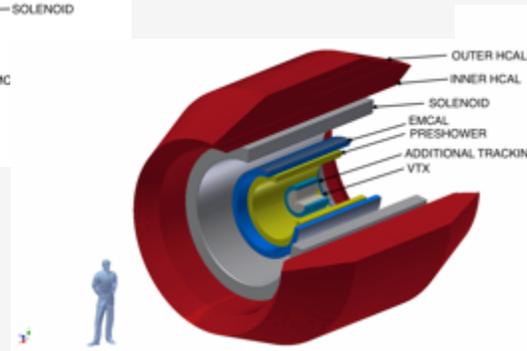
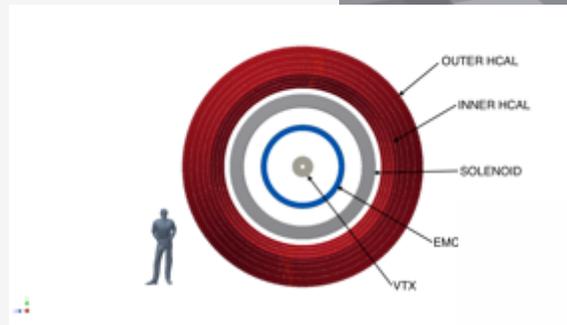
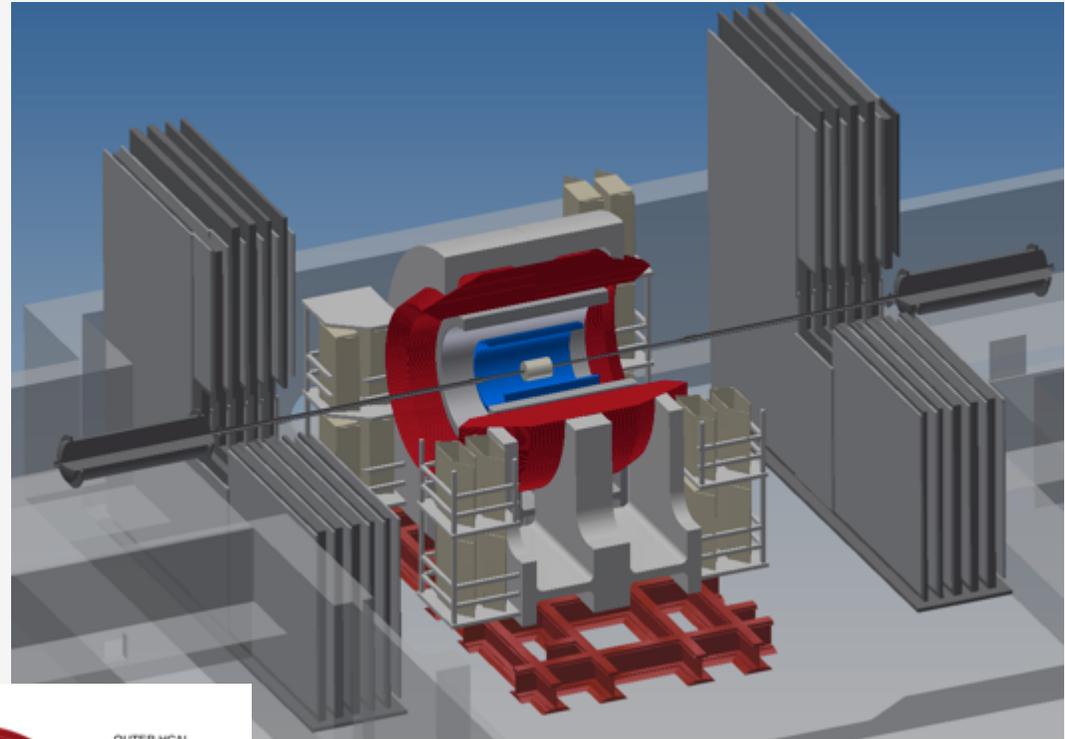
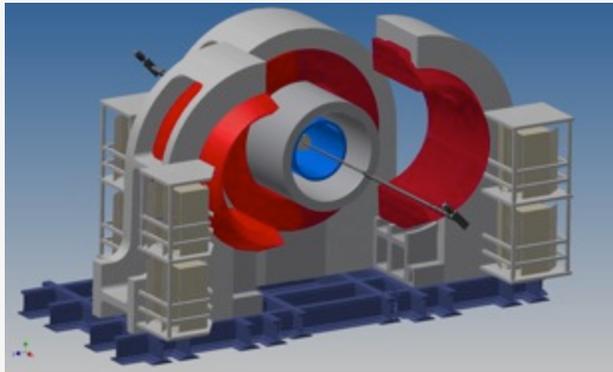
PHYSICS DEPARTMENT



1/23/2014

Test of combined EMCAL and HCAL prototypes
at Fermilab in Feb 2014

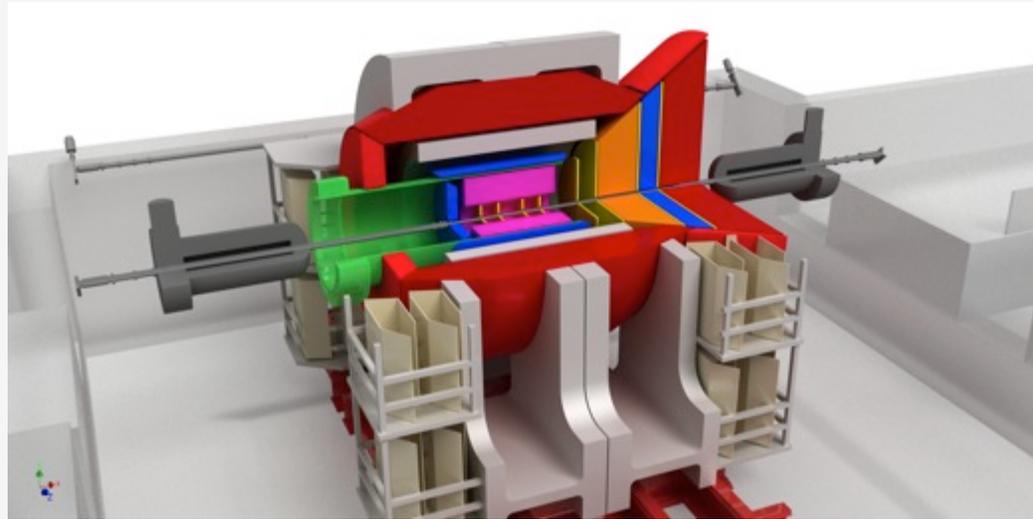
PHENIX LABORATORY NORTH



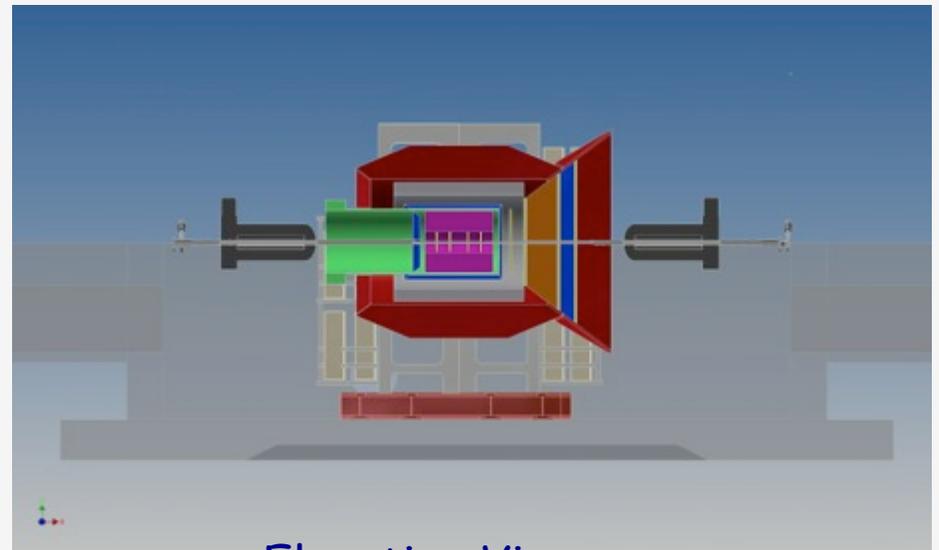
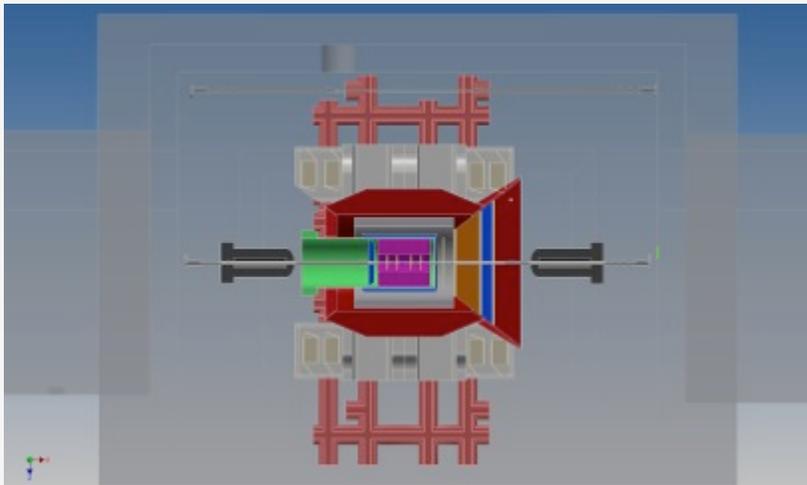
sPHENIX Modeling support for updated MIE

1/23/2014

ePHENIX



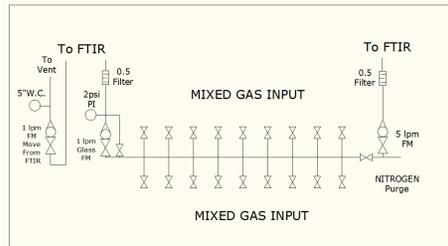
Plan View



Elevation View

Need to complete Analyzer piping

Simple Manual Distribution Panel



System almost completed.
Will be ready for run 14



Remaining 2013 Shutdown Schedule

PHENIX
 SCALP
 REPORT
 NORTH

VTX/FVTX Bias, LV and signal Cabling and Cooling distribution	Done
MPC-Ex LV, Bias and signal cabling and cooling distribution	Done
MPC-Ex installed acceptance tests	Done
Remove and stow station 1 south scaffolding	Done
Prep for EC roll in (remove fibers, cooling water and gas)	Done
Remove manlifts from IR	Done
Remove deck plates from IR	Done
Move MuID Collars into IR hold position	Done
Remove 12 ton cart from IR	Done
Roll in EC to run position	Done
Re-connect gas sniffers, water, elect., gas, fibers to EC	Done
Fold down EC platforms & reinstall dumb waiter (carpenters)	Done
Reconnect EC dumbwaiter lift wiring and TOF blowers	Done
Move MMS to run position	Done
Install the MuID collars	Done
DC West wire repairs	Done
Restore all PHENIX Elec. from shutdown safe modes to operating modes	Done
Christmas Holiday	Done
New Year's Day Holiday	Done
Assemble large shielding wall and install plug door (riggers)	Done
Start Watch Shifts	Done
sPHENIX HCal & EMCal Prototype Assembly/test at 510 Hi-Bay	Done
Pink sheets	Done
White Sheets	Done
Blue Sheets	Done
End of Shutdown Party	Done
Start Flammable gas flow	1/23/2014 ?
Pre-run commissioning and detector prep testing for run 14	12/9-1/31/2014
Close shield wall, install radiation interlocks and prepare for run 14	1/31/2014
Start run 14	2/3/2014

PHENIX Annual Safety Review: Action Items

- Provide a procedure to test the window washer interlocks (Lynch Jan 15, 2014)
Paul Giannotti is finishing this effort will be done this week. (Note: this is not required for run start sign off)
- Add (load limit) weight postings on the new gratings covering the cables adjacent to the sill (Phillips/Lynch Jan 15, 2014)
Dave still needs to provide me with the load limits and a sign (next week?) (Note: this is not required for run start sign off)
- Complete the platform gates installation (Phillips Jan 15, 2014)
Dave is still working on this, (hopefully to finish this week?) (Note: this is not required for run start sign off)
- Provide the new flammable gases leak rates (Pisani, Jan 10, 2014)
Rob submitted these Tuesday. Done
- Provide the updated gas usage quantities (Pisani Jan 10, 2014)
Rob submitted these Tuesday. Done
- Add a caution sign not to overfill the NOVEC bottles (Pisani Jan 10, 2014)
Done
- Carry out the Blue Sheeting (CAS, Phillips Feb 1, 2013)
All blue sheet items are Done. Dave needs to get sign off sheet to you.

PHENIX
 4400
 NORTH
 WASHINGTON
 AVENUE
 SUITE 1000
 DENVER, CO 80202

PHENIX Annual Safety Review: Action Items (Continued)

- Document the new ethane installation and leak and pressure testing (Biggs Jan 15, 2014)
Carter will work on this next week, it may carry over for a few weeks until the trailer is delivered. After the trailer is delivered and installed, but before we switch the trailer on we will have a walk thru with the appropriate safety personnel, Mike Gaffney et. al. We expect to start the run with the existing 12 packs supplying the ethane, until all approvals are in place. (Note: this is not required for run start sign off)
- Provide updated sweep procedures (Sampson Jan 15, 2014)
I believe this is done, check with Sampson
- Carry out an inspection of the installed platform gates (Cirnigliaro Feb 1, 2014)
Dave must schedule the carpenters to finish this work then Cirnigliaro can do his walk thru. (Next week ??)

General:

- Update the PHENIX ECR. (Craner, Jan 15, 2014)
This is a CAD item, PHENIX input to support this item has been submitted.
- Update the PHENIX work plan if necessary (Cirnigliaro Jan 15, 2014)
The updated work plan was submitted to Pete last week, this is done, unless Pete has any changes.

PHENIX Annual Safety Review: Action Items (Continued)

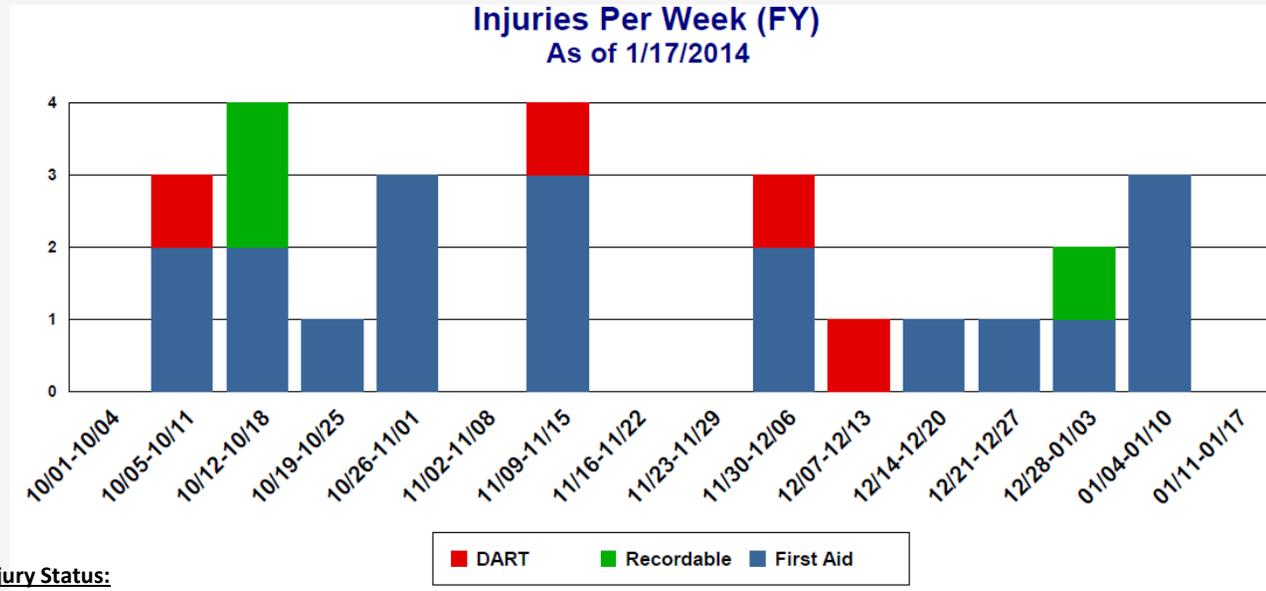
- Carry out a magnetic safety review (Phillips Jan 10, 2014)
Done as of 1/10/14 by Dave Phillips and Louis Snyderstrup
- A walk through of the PHENIX detector prior to introduction of flammable gas.
(Makdisi et al Jan 10, 2014)
Done, Tuesday, 1/21/14. We have not received any action items from you, so I am assuming there are no pre-run action items to be addressed.
- Update the documented work procedures. (Lynch Continuing)
There is only one procedure needing updating (MuID gas OPS) I have done a preliminary review and made some minor corrections, Rob has it next. Expect to have update completed by end of next week, 1/24/14. No other mandatory updates due in 2014, but will continue to monitor procedures and make updates if the need arises. (Note: this is not required for run start sign off)
- Establish trained PHENIX watch shifts. (O'Brien Jan 10, 2014)
Done as of 1/10/14

In summary, all PHENIX items required to allow run start have been completed.

2014 planned Technical Support and Shutdown Activities

PHENIX
 SUPPORT
 NORTH

Support for run 14	2/3-2/25/2014
Support for sPHENIX prototype tests at FermiLab	1/21-2/25/2014
Procure & Fabricate parts for MPC-Ex North and South	1/1/2014-6/30/2014
Assemble & test MPC-Ex South, ready for installation	3/1-7/1/2014
Assemble & test MPC-Ex North, ready for installation	7/1-9/25/2014
Start of Shutdown Tasks (purge flammable gas, disassemble and stow shield wall, remove collars, move EC to AH, Move MMS south, etc.)	7/1 - 7/18/2014
Install scaffolding in Sta 1 South	7/25/2014
Remove MPC-Ex prototype, Install new MPC-Ex South	7/28-8/22/2014
Maint. & Repairs for MPC South, BBC South, RPC1 South, MuTr sta 1 South, as necessary	7/28-8/22/2014
Remove scaffolding from sta 1 south, Move CM South	8/25/2014
Install scaffolding in Sta 1 North	8/26-8/29/2014
Prep MPC-Ex North installation area	9/1-9/26/2014
Install new MPC-Ex North	9/29-10/17/2014
Remove Sta 1 North scaffolds, Move CM North	10/20-10/24/2014
Other detector support	TBD
Infrastructure Maintenance and Improvement	TBD
Decommissioning of obsolete PHENIX detector equipment	TBD
sPHENIX Support	on-going
End of Shutdown Tasks (Move MS north, roll in EC , install collars, remove 10 ton cart, plates and manlifts, build shield wall, etc.)	10/27-11/26/2014
Pink/White/Blue Sheets	1/17/2014
End of Shutdown Party	????
Start Flammable gas flow	????
Close shield wall, install radiation interlocks and prepare for run 14	12/31/2014
Start run 15	1/2/2015



Injury Status:

FY14 YTD: DART – 4, TRC – 7, First Aid – 19
 FY13: DART – 14, TRC – 37, First Aid – 53
 FY12: DART – 19, TRC – 38, First Aid – 69

FY13 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seg/OcInj/BNLInjuries.aspx>

Recent Injuries		
1/10/14	First Aid	An employee fell on a slippery sidewalk and received first aid at the OMC.
1/10/14	First Aid	An employee slipped and fell on the icy pavement. He received first aid at the OMC and returned to work.
1/10/14	Pending Classification	An employee slipped and fell in a parking lot. He reported to the OMC, received ice for a slight swelling of his wrist, and was sent home (end of shift). He was seen again by OMC on Monday, 1/13/14, referred to a specialist, and returned to work without restriction.
1/10/14	Pending Classification	An employee slipped on the sidewalk, spraining his ankle. He reported to the OMC and was sent to the hospital for evaluation and treatment.
1/10/14	Pending Classification	A worker slipped on the sidewalk while spreading rock salt, striking her head on the ground. Fire/Rescue transported the employee to the hospital for treatment. The employee was wearing the proper PPE when the accident occurred.
1/7/14	First Aid	An employee was twisting wires and saw a lump at the base of his thumb. He reported to the OMC the following day and was referred to his doctor.

Recent Events		
1/16/14	Non-Reportable	A skid steer loader developed a leak while the equipment was working at the Transfer Station located on Princeton Ave. Less than one gallon of hydraulic fluid leaked on the soil. Grounds Maintenance began mitigating the spill and the HEMO shop removed the skid steer for repairs. (Event Link)
1/16/14	SC-3	While performing a permitted concrete penetration into the first floor of Building 510, a subcontractor noticed (after drilling the pilot hole) that the drill had made contact with a metal conduit. Upon further investigation it was noted that the drill had pierced the conduit, which contained an energized 110 VAC power circuit. It appears that the circuit was not compromised. There were no injuries. An investigation has been initiated. (Event Link)
1/15/14	Non-Reportable	There was a minor motor vehicle accident in the parking lot of Bldg 743 between a BNL vehicle and a parked/occupied personal vehicle. There were no injuries to either party and slight damage to the personal vehicle. (Event Link)
1/10/14	Non-Reportable	A Laboratory Protection Officer was involved in a minor motor vehicle accident. The Officer stated, when responding to secure the North Gate fence, he pulled his patrol vehicle over to stop, slid on a patch of ice, and struck a dirt mound, causing moderate damage to the passenger side front bumper area and under carriage. The Officer stated that his approximate speed was about 10 mph. There were no reported injuries related to this incident. (Event Link)
1/9/14	SC-3	A F&O Modernization Project Office (MPO) project was in progress in Building 463, Room B-220, when contract labor electricians discovered a live wire coiled up on the ceiling with the end taped off. The contract labor electrician safed off the wire by putting it in a box. South Complex electricians will follow-up and de-energize the wire. There was no electrical shock/injury. An investigation has been initiated. (Event Link)



Where To Find PHENIX Engineering Info

Just about Ready to Start Run 14!



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

1/23/2014

