

PHENIX WEEKLY PLANNING



Jan. 30, 2014
Don Lynch

This Week

PHENIX
RESEARCH
REPORT
NO. 14

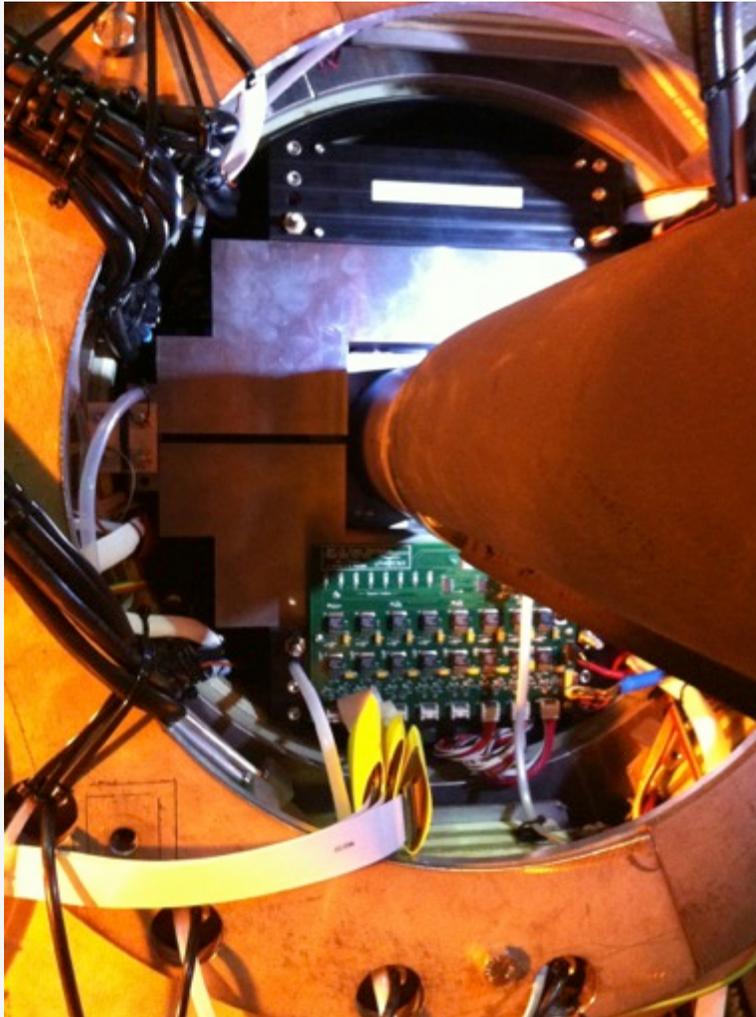
- Plan/Install MPC-Ex FEM installation platform
- Continue F/VTX commissioning
- Tech Support for Run 14 as required
- Replace MuTr mainframe
- Support for sPHENIX efforts as required

Next Week

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

MPC-Ex Initial (Partial) Installation

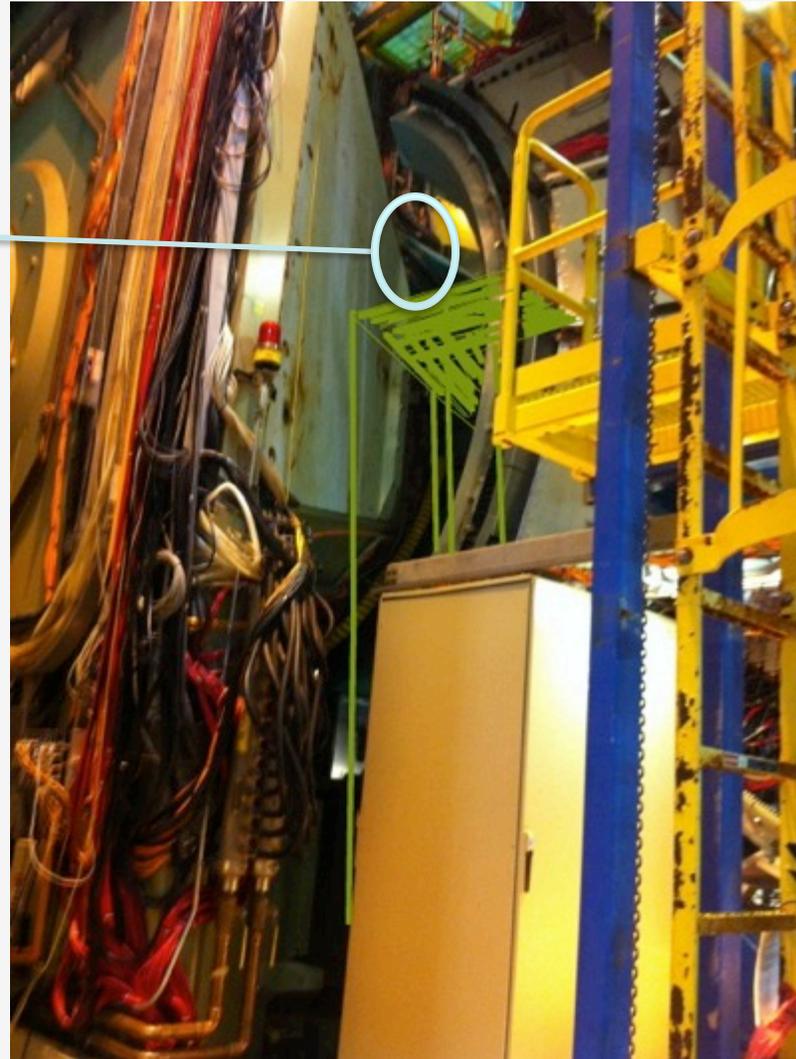
PHENIX NORTH



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



sPHENIX Prototype Beam Test @Fermilab

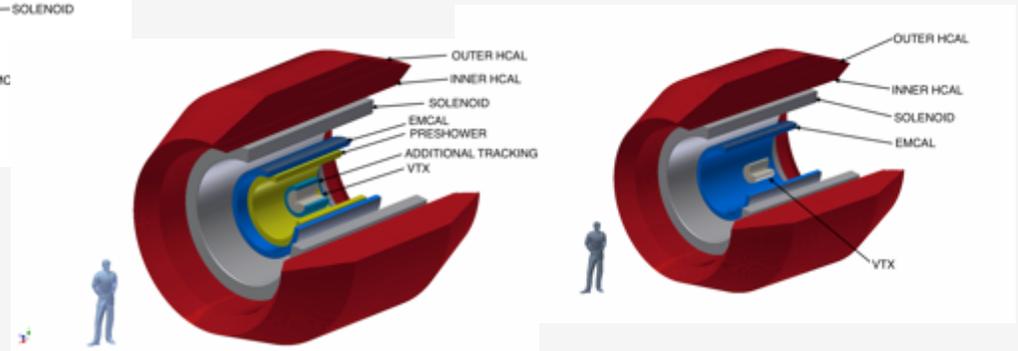
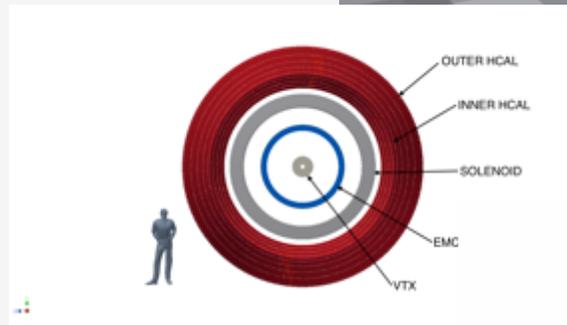
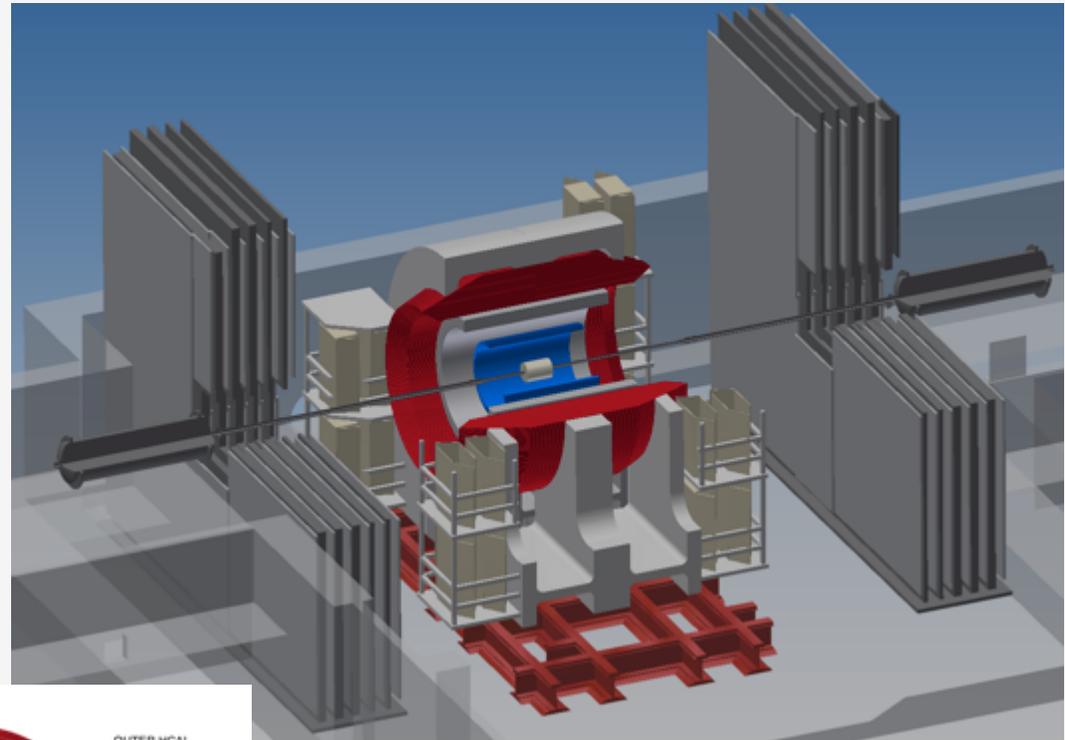
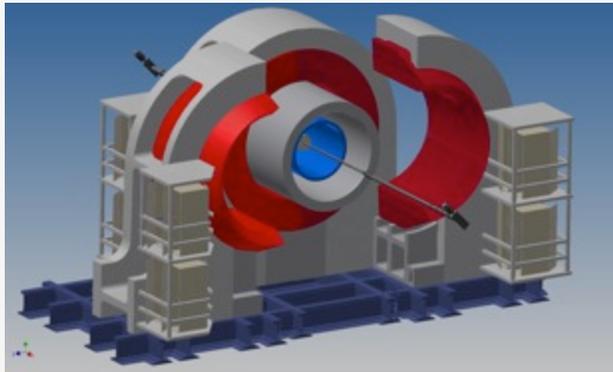
PHENIX PROTOTYPING NORTH



1/30/2014

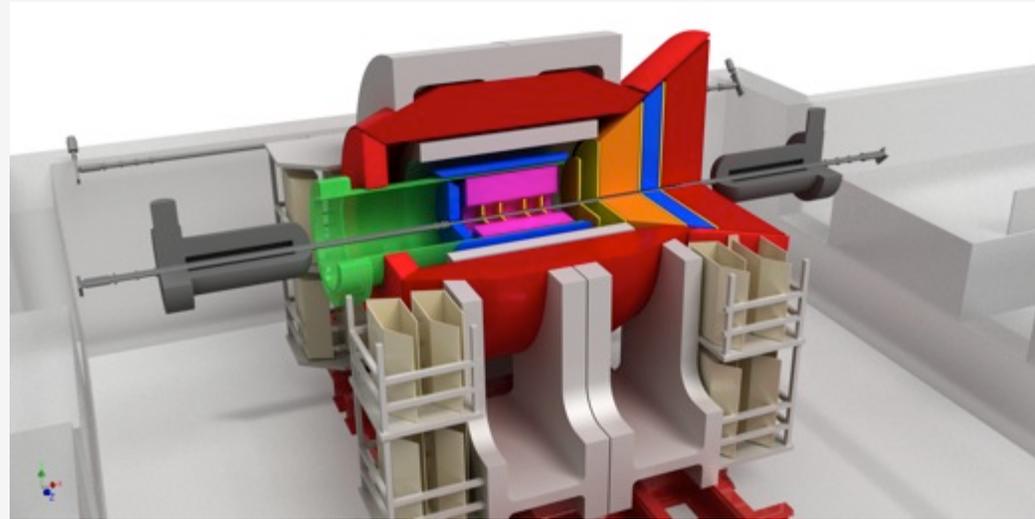
Test of combined EMCAL and HCAL prototypes at Fermilab in Feb 2014

PHENIX LABORATORY NORTH

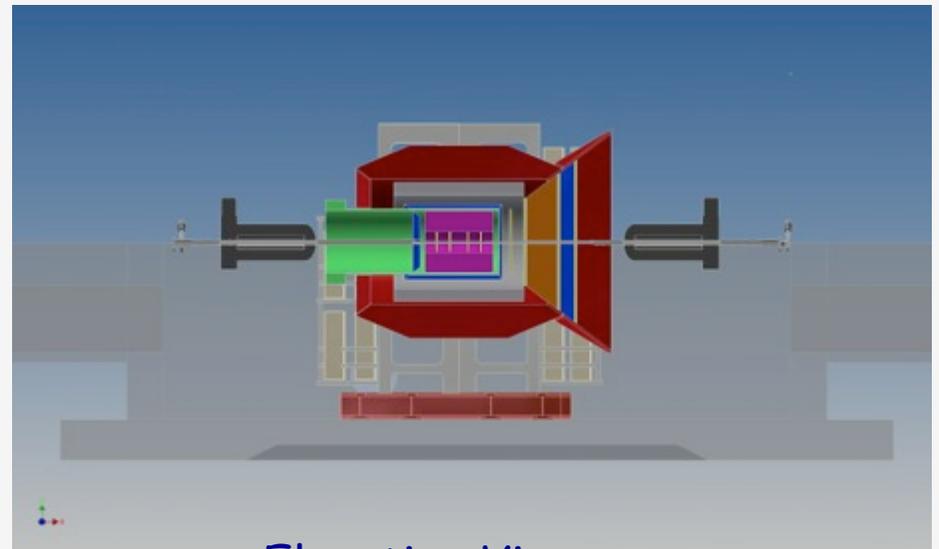
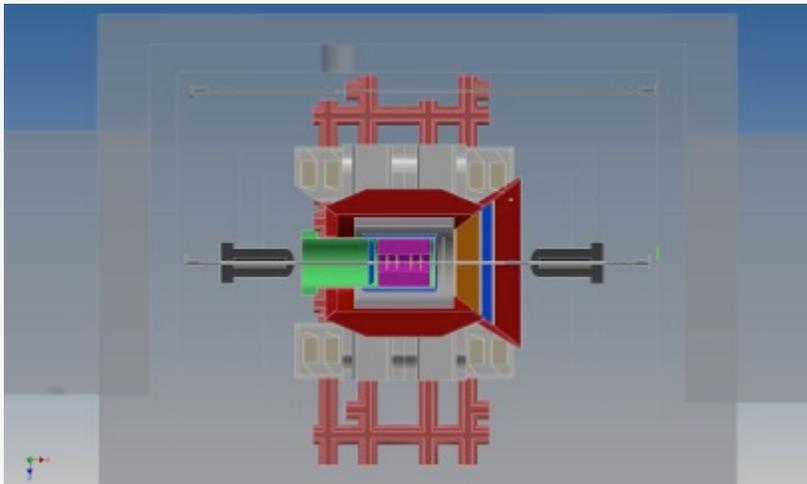


sPHENIX Modeling support for updated MIE

ePHENIX



Plan View

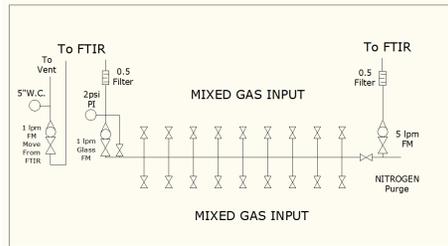


Elevation View

PHENIX
 LABORATORY
 NORTH

Need to complete Analyzer piping

Simple Manual Distribution Panel



System almost completed.
Will be ready for run 14



Remaining 2013 Shutdown Schedule

Start Flammable gas flow	Done
Close shield wall, install radiation interlocks and prepare for run 14	Done
Pre-run commissioning and detector prep testing for run 14	12/9-1/31/2014
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)
Done
- Add (load limit) weight postings on the new gratings covering the cables adjacent to the sill (Phillips/Lynch Jan 15, 2014)
Done
- 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)
Done
- Provide the updated gas usage quantities (Pisani Jan 10, 2014)
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)
Done

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)
Done
- 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)
Done
- Update the PHENIX work plan if necessary (Cirnigliaro Jan 15, 2014)
Done.

Walkthru Action Items

PHENIX-14-09
 PHENIX-14-08
 PHENIX-14-07
 PHENIX-14-06
 PHENIX-14-05
 PHENIX-14-04
 PHENIX-14-03
 PHENIX-14-02
 PHENIX-14-01

Checklist Item #	Initial	Title *	Description Of Check-Off List Item	Priority
-PHENIX-14-01		ESRC	All relevant ESRC action items closed.	Pre start
-PHENIX-14-02		LE	IR: Dumb Waiter inspection date due end of January	Pre start
-PHENIX-14-03		EC	IR: Either remove the temporary plastic hoses or use fasteners other than cable ties.	Pre start
-PHENIX-14-04		EC	IR: Install fire wire on the MPC racks	Pre start
-PHENIX-14-05		EC	IR: Need additional plastic covers to the MPC Low voltage connections.	Pre start
-PHENIX-14-06		EC	IR: Look to mitigate the open rack doors due to interference from cables.	Post start
-PHENIX-14-07		EC	GMH: Remove the TEC xenon recovery system.	Post Start
-PHENIX-14-08		EC	GMH: Remove the plastic line labeled DC CO2.	Post Start
-PHENIX-14-09		MCR GL	Check off list is complete	Pre start

Done

Done

Done

Done

Done

Working on it

To do list

Done

Done

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

From Ray Karol:

1. Laptop Batteries - Verify that your laptop has a date tag on the battery, if not please note this date for future reference. The Communications and Electronic Support Group should be tagging the lap tops on the date that an original or replacement battery is installed in the laptop.

If any battery is 3 years old or if the battery no longer holds a charge for a reasonable time, it must be replaced to prevent a potential fire from over charging.

If you have a MACBOOK/MACBOOK Pro, 5 years for battery replacement is acceptable.

1/30/2014



Recent Events		
1/23/14	Non-Reportable	All incoming telephone service to BNL was down as the result of an apparent service provider outage. BNL phones had "in house" capabilities and the Emergency line was functioning. ITD was in contact with the carrier and worked with them to restore service as quickly as possible. ITD confirmed all Lab phones were back on line as of 4:30 am on 1/24/14. (Event Link)
1/23/14	Non-Reportable	A vehicle hit a sign at the median near the main gate and left the scene. There was minor damage to the sign. (Event Link)
1/22/14	Non-Reportable	Site Superintendent responded to a call while BNL was shutdown due to the snow storm that the nitrogen pressure relief valve at Building 734 lifted. (Event Link)
1/22/14	Non-Reportable	During snow removal, a snow plow hit Building 575. This caused minor damage to building, but no damage to the plow. There were no injuries. (Event Link)
1/19/14	SC-4	On January 19, 2014, at the NSLS-II Booster facility, the P2 interlock tripped at about 2330 hours which was determined to be caused by a worker unintentionally depressing the P2 emergency stop. As a result of the Personnel Protection System (PPS) trip, Booster commissioning was halted until the cause of the trip was identified and corrected. While evaluating the cause of the event and readying the systems for restart, two A chain door switches on the Injector Service Area to P2 interlocked door were found to be stuck in the closed position. It was determined that shims added to the door to ensure the switch contacts were engaged were not properly sized and due to repeated closing of the doors the shims damaged the mechanical actuators for the switches. The mechanical actuators for the switches have been replaced. There was no radiation exposure or injury due to this condition. An investigation was initiated. (Event Link)



Where To Find
PHENIX Engineering Info

Run 14 Starts Next Week!

NFL Super Bowl XLVIII
This Sunday,, 6:30 PM on FOX



Denver
Broncos

VS.



Seattle
Seahawks

My prediction: Denver 35 Seattle 27

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

