

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT



12/15/2011
Don Lynch

This Week

- Complete Survey VTX/FVTX East and overall - Done
- Continue RPC1 N & S commissioning
- Complete MuTr station 3 North Clamp-on re-capacitors in MMN - Done
- Complete VTX/FVTX cabling & fiber installation
- Remove all scaffolding from IR - Done

Next Week

- Remove manlift and plates from IR
- Move MuID collars to IR
- Move 12 ton rolling cart to AH winter home
- Roll in EC
- Prep EC for run (platforms, ladder, dumb waiter, electric, fiber, gas)
- Continue RPC1 N & S commissioning
- Complete VTX/FVTX cabling & fiber installation
- Begin VTX/FVTX Commissioning
- Complete preparing EC and IR for Pink/White/Blue sheets
- Continue prep for run 12
- PHENIX annual safety review

TECHNICAL SUPPORT 2011

- CM alignment stops
 - Reinstall BBC South
 - MPC S troubleshooting
 - Upgrade AH crane
 - RPC3 Shielding

 - RPC Hodoscope

 - Prep for EC roll in
 - EC prep
 - Remove manlifts and plates
 - Preposition MuID collars
 - reinstall MMS east vertical lampshade
 - CM alignment & BP Survey (Final after VTX/FVTX installed)
 - MPC electronics rack upgrade installation
 - Roll in EC
 - Prep IR for run
 - IR run prep, Pink/Blue/White sheets
 - New and upgraded full detector commissioning
 - Run 12 cooldown
- Design Done, Fabrication in Progress
- Done**
- Done**
- After 1/17/2012
- Large Blocks placed
- Rail extensions for garage in progress
- Mech Installation Done
- Cabling by 12/31
-
- Done
- 12/19**
- 12/19**
- Done
- Done**
- 12/22
- 12/20
- 12/21
- 12/19-1/6/2012
- In progress to 1/16/2012
- 1/17/2012

TECHNICAL SUPPORT 2011

- FVTX/VTX Chiller leak/contamination improvements Done
- FVTX west assembly and QA tests Done
- FVTX west pre-survey Done
- VTX pixel/strip pixel repairs Done
- VTX west re-assembly & QA tests Done
- FVTX east assembly and QA tests Done
- FVTX west integration with VTX west Done
- Move FVTX east to Chem lab Done
- FVTX east pre-survey Done
- VTX east reassembly and QA tests Done
- FVTX east integration with VTX east Done
- FVTX/VTX east half survey Done
- FVTX/VTX west half survey Done
- FVTX/VTX complete alignment survey in Chem. Lab Done
- Install FVTX fibers from rack room thru AH/sill to CM Done
- Final FVTX/VTX QA tests and thermocouple wiring Done
- Move west FVTX+VTX half to 1008 Done
- Move east FVTX+VTX half to 1008 Done
- Install FVTX/VTX west detectors (mechanical) Done
- FVTX racks ready Done
- Survey FVTX/VTX west detectors (mechanical) Done
- Install FVTX racks on bridge Done
- FVTX/VTX west cable routing, plumbing, QA tests Done
- Install FVTX/VTX east detectors (mechanical) Done
- Survey FVTX/VTX east detectors (mechanical) Done
- FVTX/VTX east cable routing, plumbing, QA tests 12/16
- FVTX/VTX final electrical/fiber/plumbing/monitoring installation 12/21

RPC Tasks

TECHNICAL SUPPORT REPORT 2011

- Install and test RPC1 North including all cables and plumbing Done
- Build 1 new rack, upgrade existing RPC1 prototype rack and install on Bridge Done
- Move CM north to run position Done
- Install scaffolding in station 1 south Done
- Modify BBCS cable routing Done
- Install RPC1 S Done
- RPC3 HV Distribution modifications, gas distribution modifications, PS calibration HV and services testing Done
- Remove hanging platforms Done
- RPC1 north and south commissioning In progress
- Remove all scaffolding Done

TECHNICAL SUPPORT NOTES

- Station 1 North Upgrade (remove, recapacitate, clean, reinstall) Done
- Station 2 North (north and south sides) and South (south side only) upgrade - remove dry air headers, modify headers, install terminator boards, reinstall modified headers Done

MuTr North & South Station 3 Re-cap clamps

- Install work platforms (north and south for capacitor clamp installation to lower octants of station 3) Done
- Install new capacitor clamps in lower octants Done
- Install new dry air manifolding to Cap clamp headers Done
- Remove work platform & steps from MMS Done
- Re-install MMS east vertical lampshade Done
- Remove work platforms from MMN Done

Electronics Group Tasks

2011 Shutdown

TECHNICAL SUPPORT 2011

- MPC electronics replacement
 - Build racks 12/20
 - Install & wire racks 12/22
 - Test 12/31
- RPC hodoscope installation
 - Run cables 12/31
 - Test 12/31
- RPC1 Wiring
 - Install cables Done
 - Test Done
- Run 12 restoration of detectors
 - EC rewire (power/cable/fiber) 12/20
 - CM restore magnet power, cooling 12/20
 - WC upgrades 12/20
 - Pink/White/Blue Sheets 1/6/12
- VTX restoration
 - Reinstall cables, fiber, cooling, monitoring 12/22
- FVTX installation and cabling
 - Racks: assemble, test, install on bridge Done
 - Fiber: install, terminate and connect 12/21
 - LV sensor and wedge: fabricate, install, terminate and connect 12/21
- Other ??? 1/17/2012

Miscellaneous Gas & Cooling System Tasks

TECHNICAL SUPPORT 2011

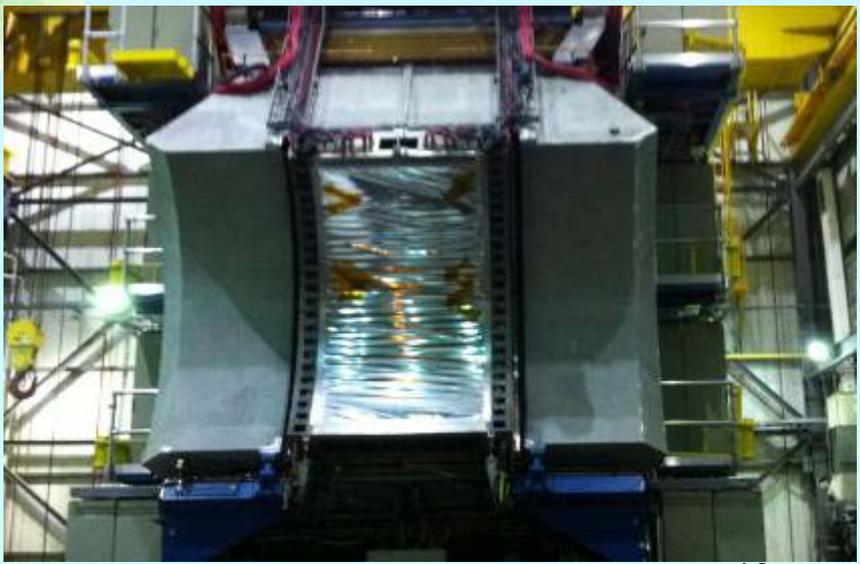
- Replace MuTr flowmeters (north and south) north done, south by - 12/31
- Replace tygon lines (80 lines) from the cooling manifolds to the detector with 1/4" ID teflon tubing. Lines ready for installation
- Insulate whatever Big Wheel chiller lines in the IR that we can get to to reduce sweating in the IR. AH lines are done
- Build a system to clean the Novec during the run. In progress
- Pixel cooling upgrade for 10° C without impacting strip-pixel cooling. Ready for installation
- Replace all cooling RTD transmitters Parts here ready for installation
- Upgrade Mutr, MuID and DC/PC computers in GMH by 12/15 Done
- RPC station 1 gas panels: (north and south) Done
- RPC Station 1 supply lines and exhaust (connecting to existing lines). Done
- Plumbing new supply for R134A, incl. heat tape and insulation. Done
- MuID panel circulation. Class one div 2 fans. Design in progress?
- Dry air for Mutr HV work. (north and south) Done
- Dry air filters to be replaced before run starts. Done
- Other ???

RPC1N

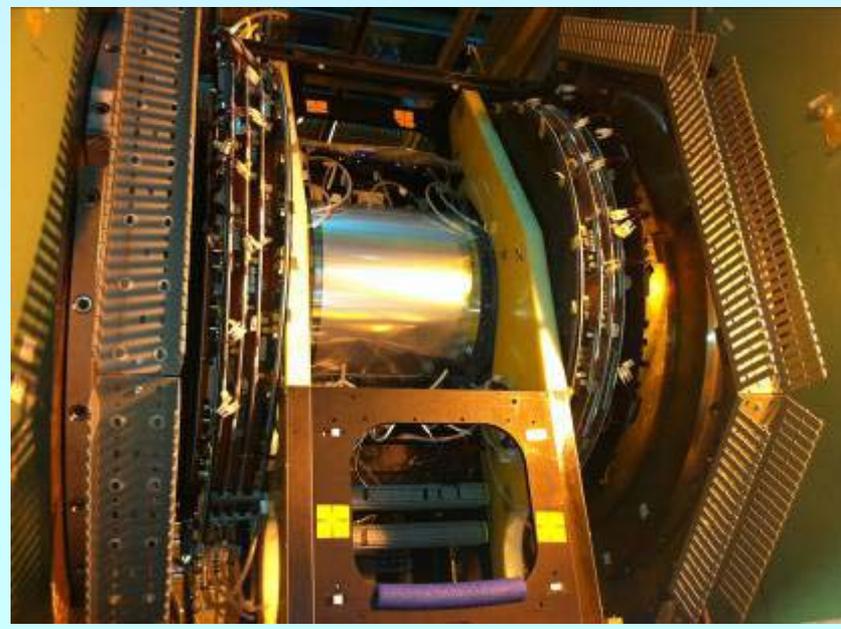
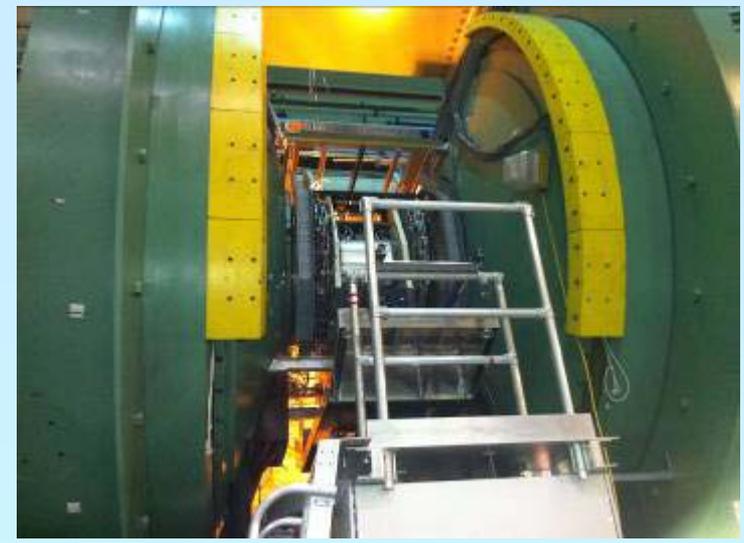
TECHNICAL SUPPORT NO. 1



DCW

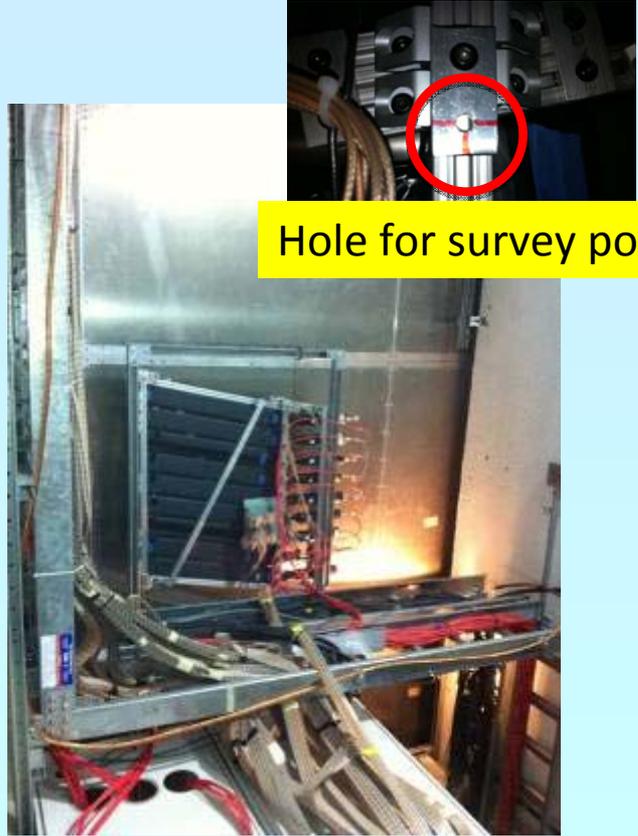


TECHNICAL SUPPORT NO. 1

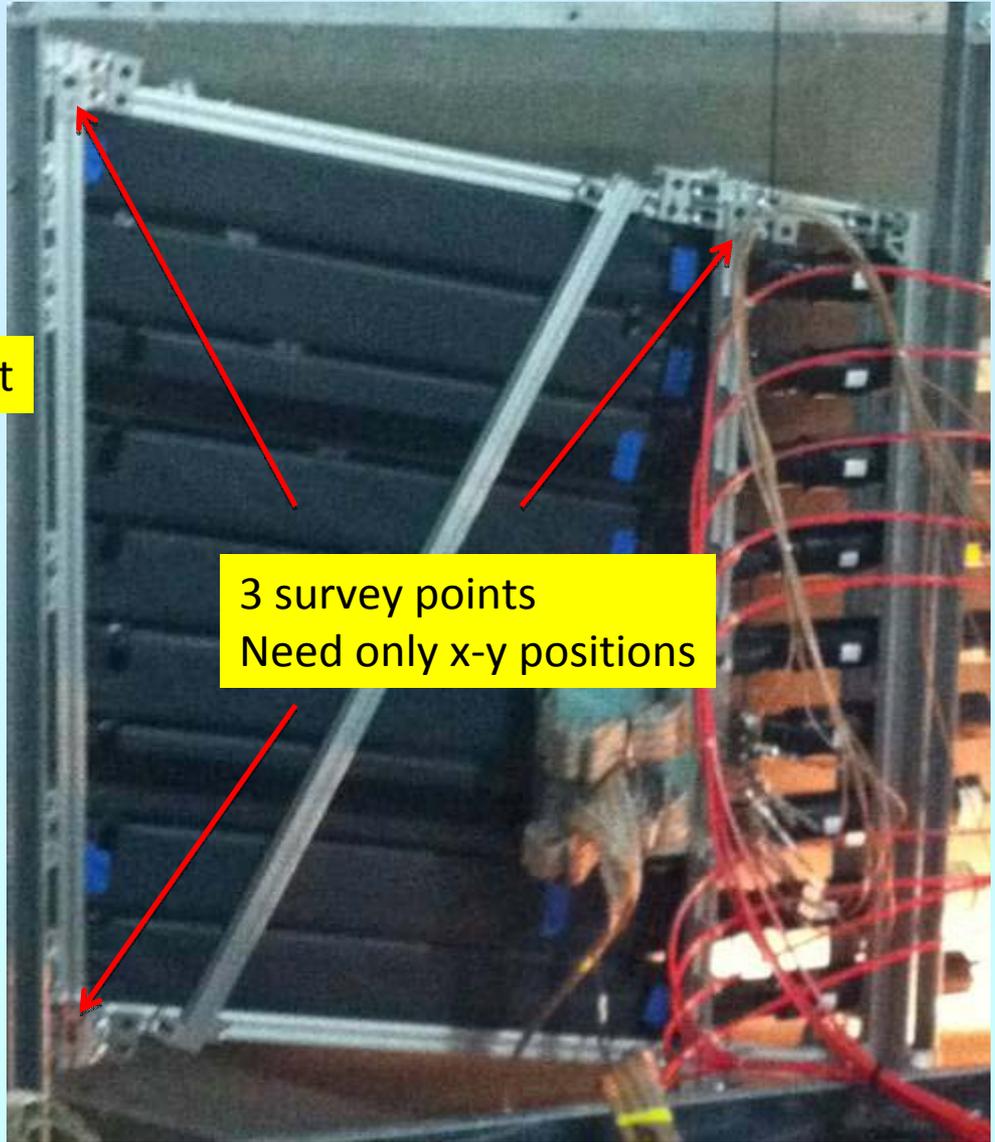


North Hodoscope

TECHNICAL SUPPORT NO--



Hole for survey point



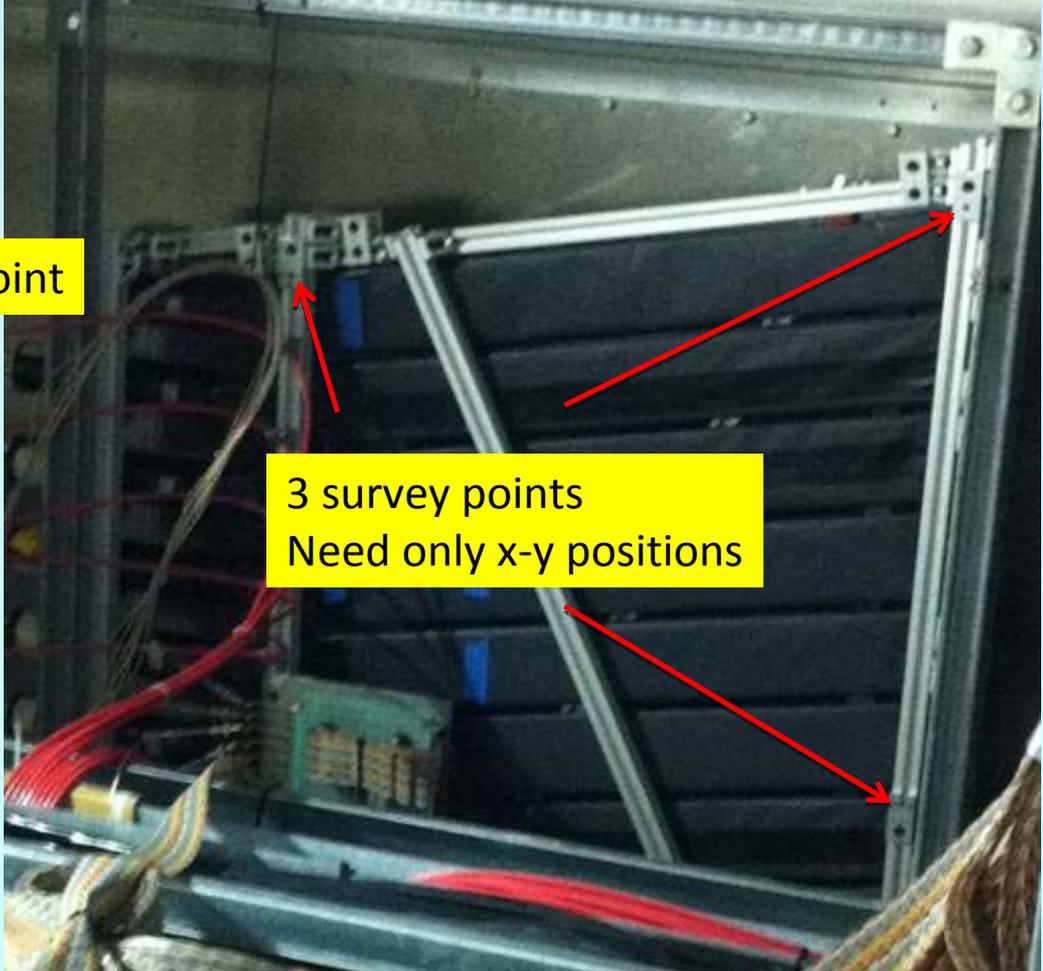
3 survey points
Need only x-y positions

South Hodoscope

TECHNICAL SUPPORT NO. 1



Hole for survey point



3 survey points
Need only x-y positions

TECHNICAL SUPPORT NO--



MPC
new
electronics
racks

Infrastructure Issues

TECHNICAL SUPPORT NO. 1

- 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)

TECHNICAL SUPPORT NO--

From Ray Karol:

- Both north and south tunnels will be ODH1 at the start of run 12. Anyone needing access (e.g. RPC3's) will need a film badge, ODH1 web training, ODH practical training, and physicals up to date.

Per John Maraviglia of CAD: The practical training for ODH1 (which for most of us expires soon and will need to be retaken before run 12 cooldown in order to be able to access either the north or south tunnel and RPC3;'s) will be given in Snyder Hall, building 911 on one of the following days:

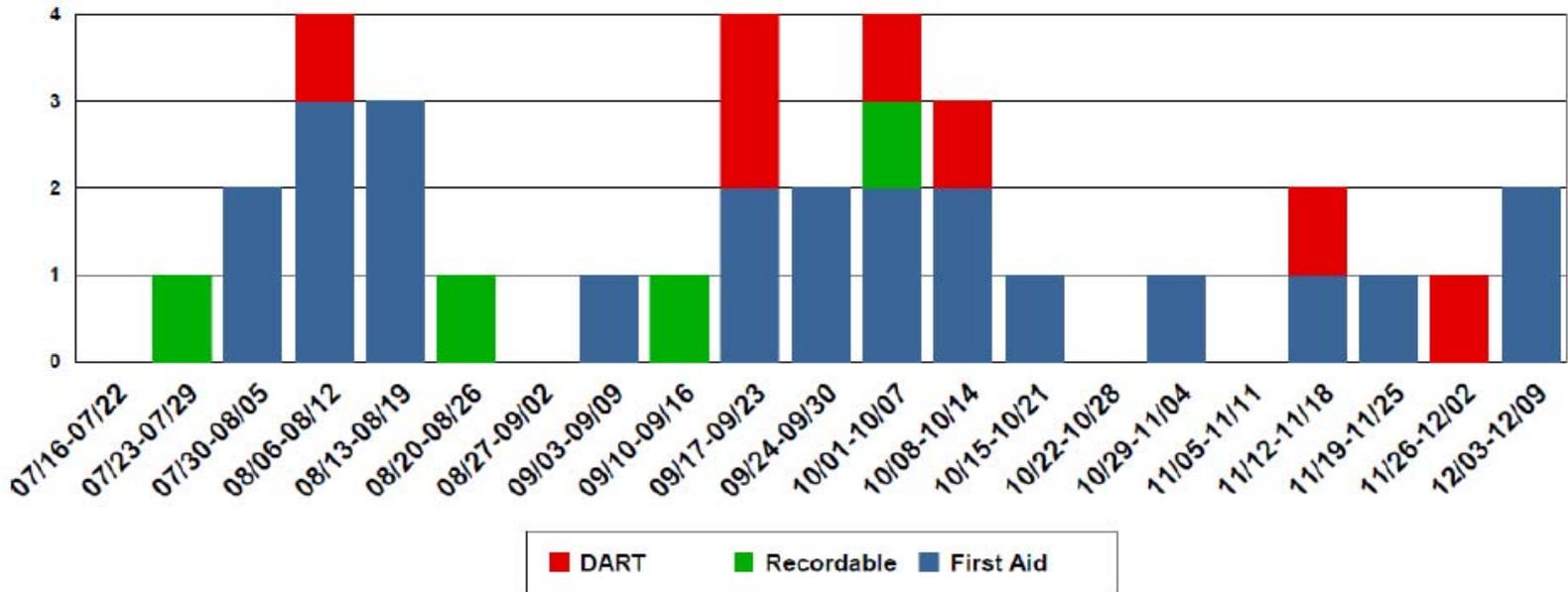
12/16/11 (Tomorrow) at 11:15 AM
 The class takes about a ½ hour.

There will be additional classes scheduled in early January for those who can't make these 3 sessions.

- PHENIX annual safety review 11/22/11 Rob, Paul, Steve and Don to prepare as usual.
- Appraisals done. After meeting go on PeopleSoft call up appraisal add comments then click the acknowledge button to complete the process.



Injuries Per Week As of 12/9/2011



Injury Status:

FY12 YTD: DART – 4, TRC – 5, First Aid – 10
 FY11: DART – 27, TRC – 42, First Aid – 45
 FY10: DART – 19, TRC – 33, First Aid – 52

Recent Injuries		
12/6/11	First Aid	An employee picked up a broken snow sign without hand protection and received splinters. At the OMC, first aid was given and he returned to work.
12/5/11	First Aid	An employee cut his right index finger on the edge of a metal cabinet. At the OMC, first aid was given and he returned to work.

TECHNICAL SUPPORT NO--

Recent Events		
12/6/11	Non-reportable	At approximately 9 AM a small sheen of oil or other petroleum product was found on the surface of the parking lot outside of Building 911. The BNL Fire/Rescue Haz. Mat. personnel were summoned and due to the small volume of material it was decided not to clean up the area. The vehicle which may have been the cause of the minor spill was attempted to be located but could not be found. It is assumed that this spill may have occurred some time previously and due to the rain in the morning, the sheen became visible.
11/28/11	Non-reportable	A notice of violation (NoV) was received from the NYS DEC regarding the application of a pesticide by an unlicensed technician. The NoV was issued following receipt by the DEC of a request for an applicator's license for the technician. Previously the technician applied the pesticide under the supervision of his supervisor who is a licensed applicator. After discussions with Tom Lambertson, Steve Ferrone, and Frank McNeill, it was determined that the letter sent to the DEC requesting the applicator's license contained erroneous information. A follow-up conversation with the DEC indicated that following transmittal of the correct information, the DEC would rescind the NoV. At this time, because the DEC indicated that because of transmission of the erroneous information, and following the transmittal of the correct information, the DEC would rescind the NoV. At a future date, if the NoV is not rescinded, this event will become reportable.

Where To Find PHENIX Engineering Info

This day in History:

December 15, 1791 Bill of Rights, 1st 10 Amendments to the US Constitution is ratified.

First Hockey Game at MSG Montreal Canadiens vs New York Americans 1925

Detroit Lions win NFL Championship over NY Giants 1935

Movie "Gone with the Wind" premiers in 1939

Band leader Glenn Miller disappears in a plane crash over the English Channel in 1944

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

