

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT ZONE



12/20/12
Don Lynch

This Week

TECHNICAL SUPPORT ZONE

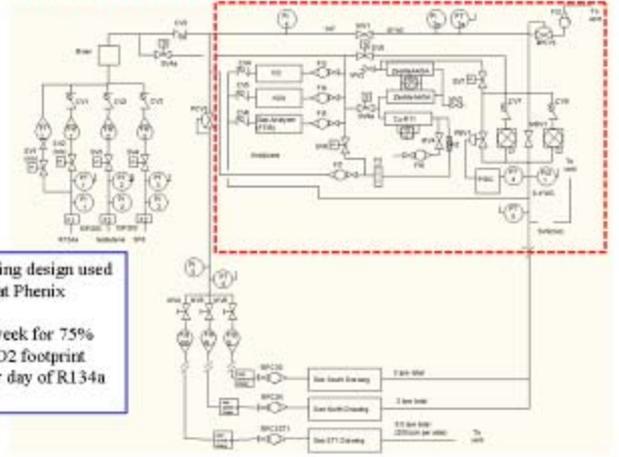
- Continue installing VTX/FVTX (continue connecting cabling and services)
- Move MMS to run position
- Re-install MuID Collars
- Re-install EC dumbwaiter and ladder (evaluate ladder safety?)
- Continue RPC3 Gas Recirculation Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Begin Pink/White/Blue sheets

Next Week & 1st week of 2013

TECHNICAL SUPPORT ZONE

- Christmas Holidays Monday & Tuesday 12/24-25
- Most Staff on Vacation rest of the week
- Happy Holidays
- No meeting next Thursday 12/27/12
- Continue RPC3 Gas Recirculation Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Continue Pink/White/Blue sheets

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

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RPC Recirculation Upgrade

Recirculation Piping installation - Done

GMH rack **in progress**

Purification system controls assembly, installation and testing - D. Northacker **in progress**

PC upgrade - **Done**

Analyzer procurement in process (~4 months)

RPC Background Attenuation Project

TECHNICAL SUPPORT ZONE

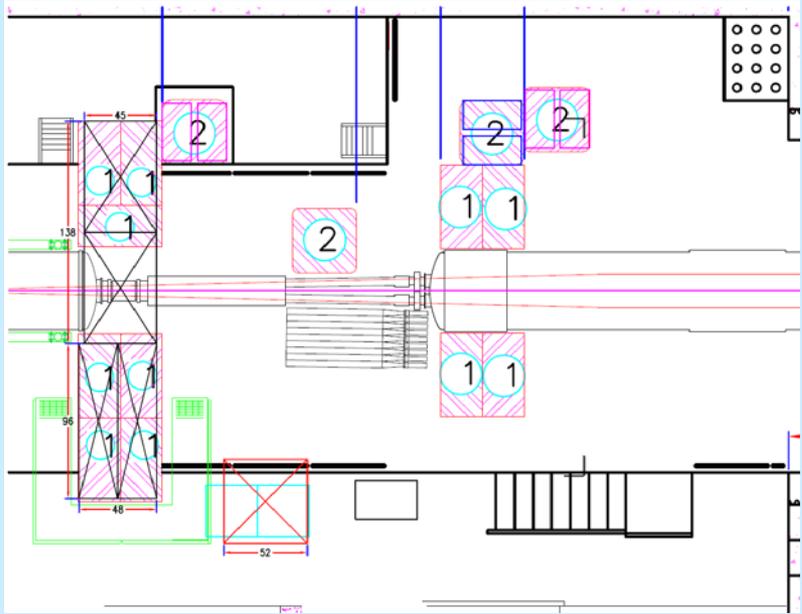
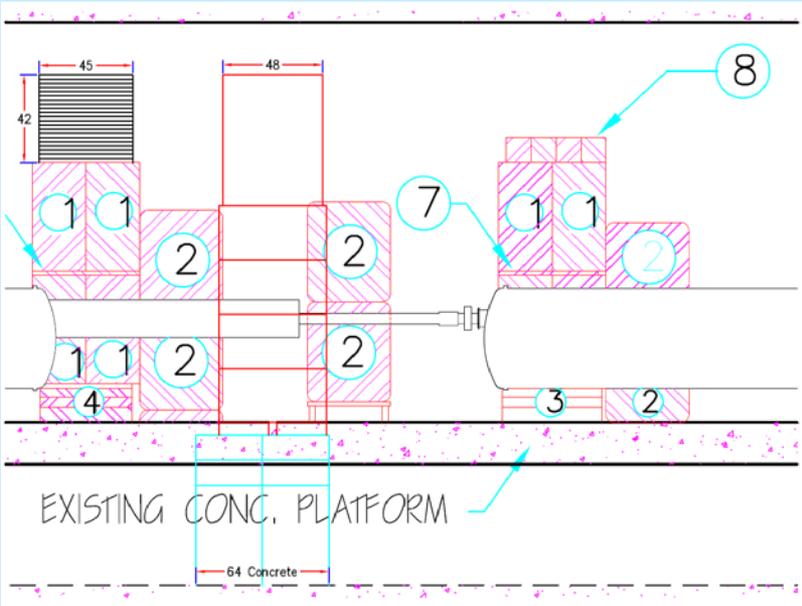


Looking towards RPC3 North
← East West →

Looking towards RPC3 South
← West East →

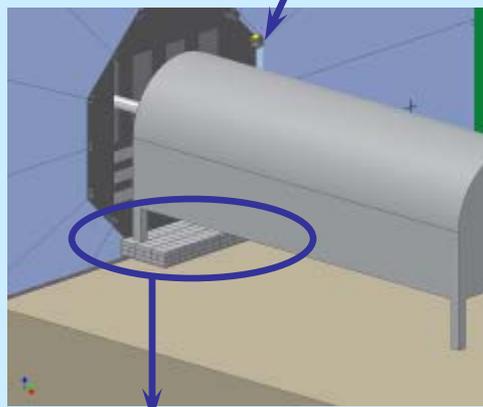
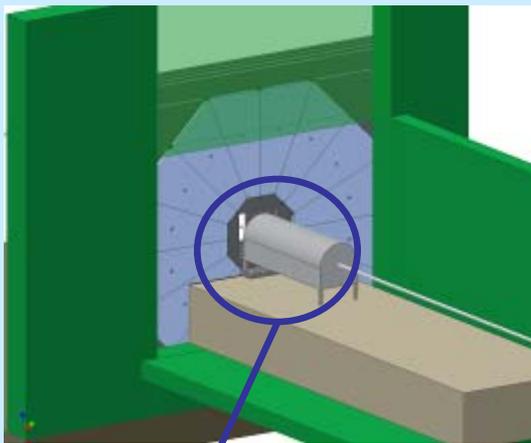
Large shielding modifications at Q2 upstream north and south to be planned and installed by CA-D (Dave Phillips) by 12/14/2012. **In progress this week**

TECHNICAL SUPPORT



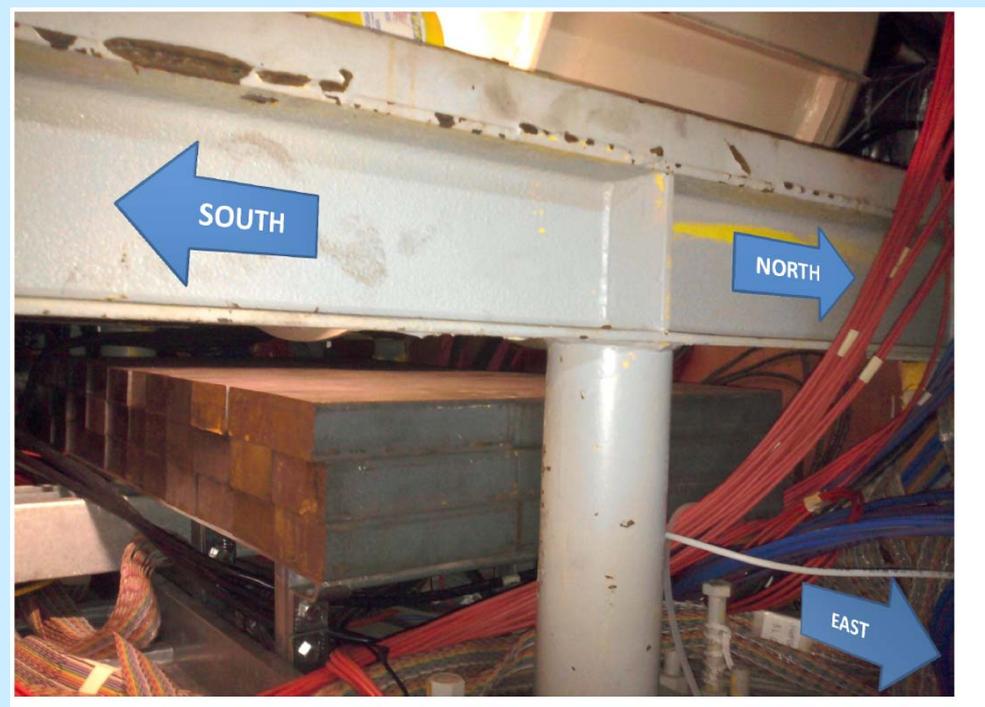
RPC Background Attenuation Project

TECHNICAL SUPPORT NOTES



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

Under DX at RPC3 South



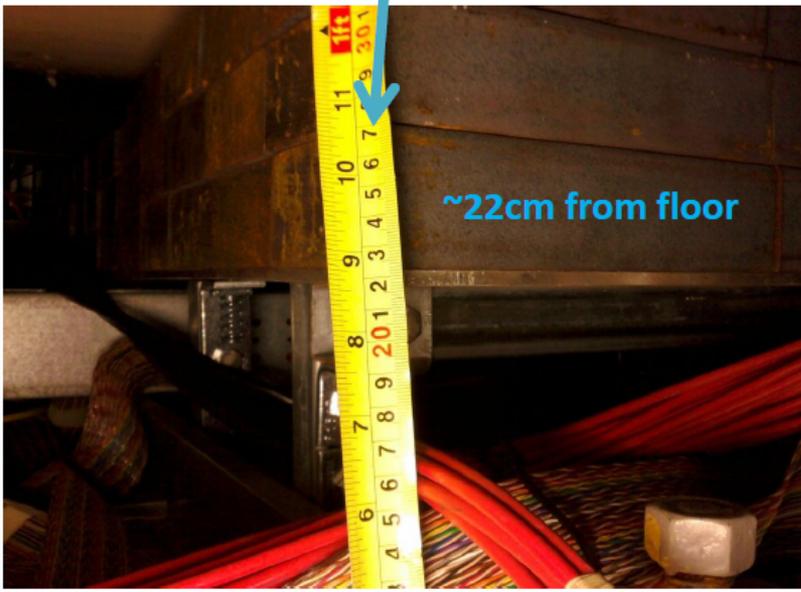
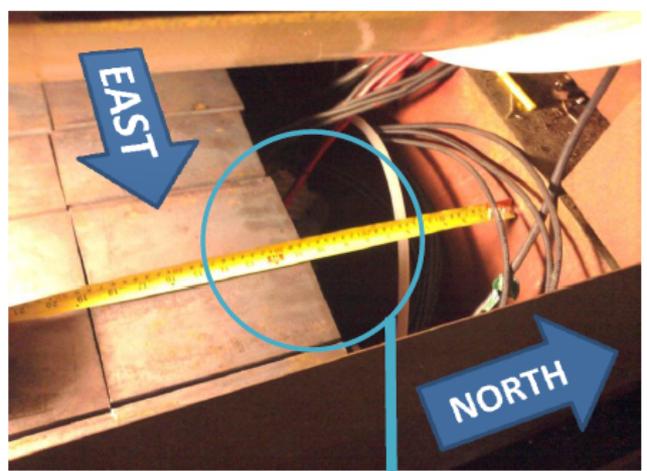
TECHNICAL SUPPORT NON



Cabels limiting how close the shelf could get to the MuID steel



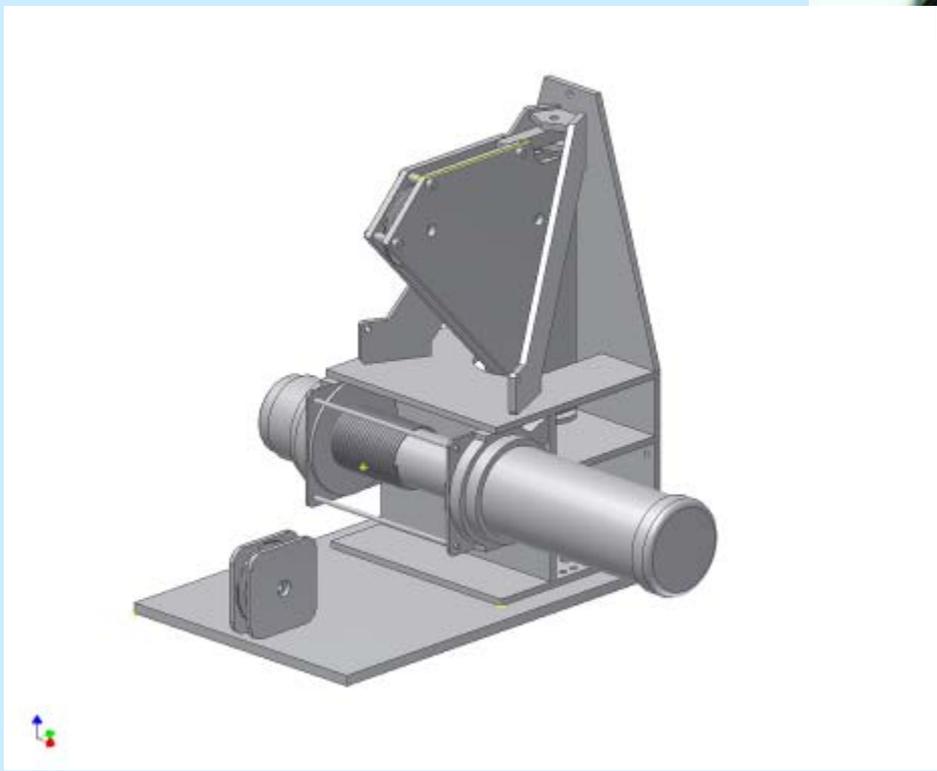
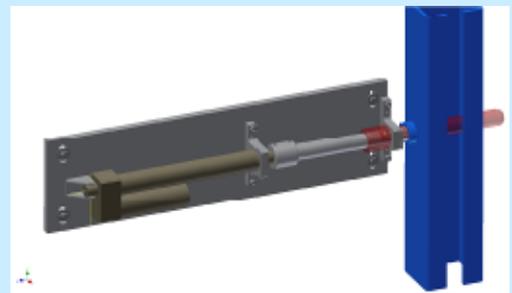
TECHNICAL SUPPORT NON



Window Washer Remote Pin Removal and Winch/spooler safety upgrades

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

Space needed for model
20" x 32" x 32.58" h



TECHNICAL SUPPORT NON

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. identify obsolete services passing through sill and remove them. - As time is available
- 2. Cover for services coming from IR through sill. - After Shutdown
- 3. Plan for stripping out TEC electronics and services to free up TEC racks. - As time is available

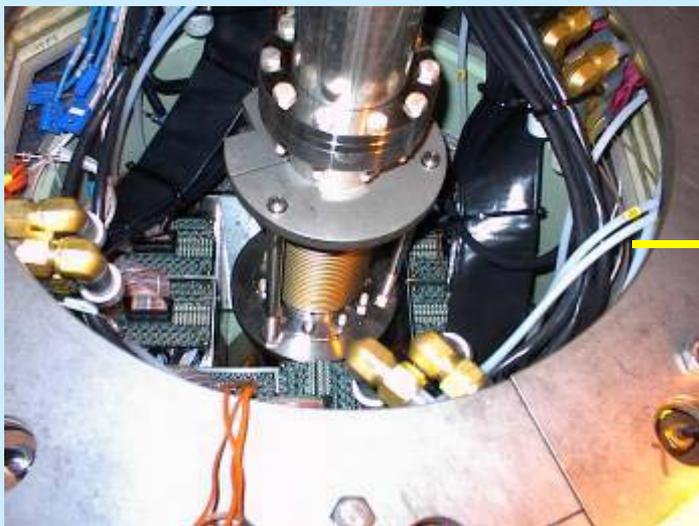
TECHNICAL SUPPORT NON



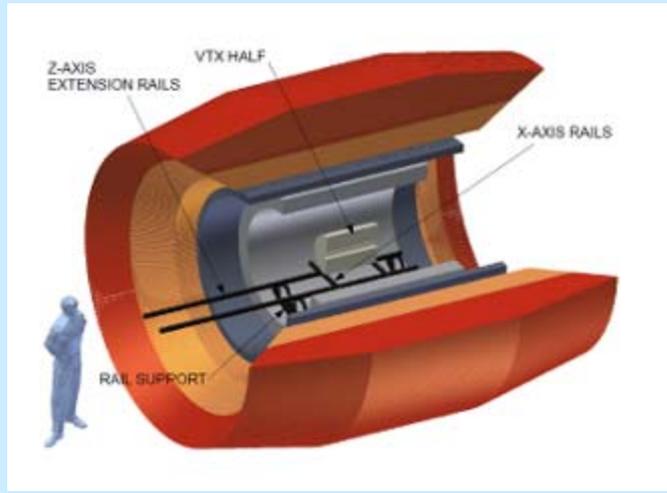
Existing vacuum bellows anti-squirm
In MPC S Cavity



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



MPCS Flat cables replaced with round cables.

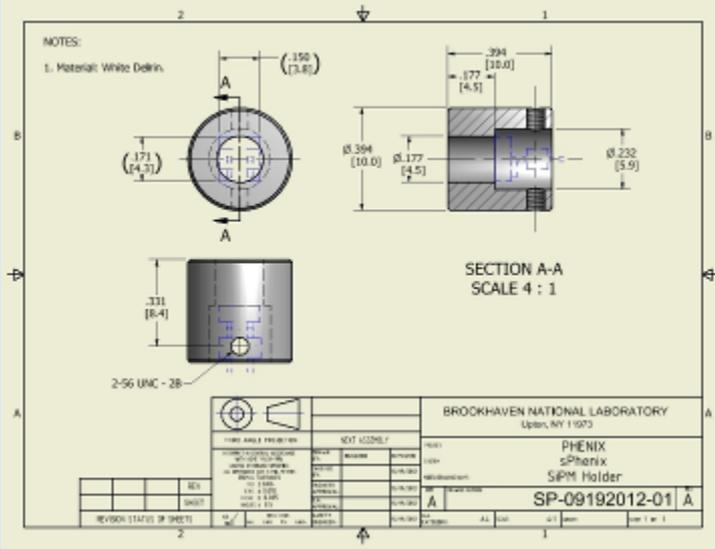
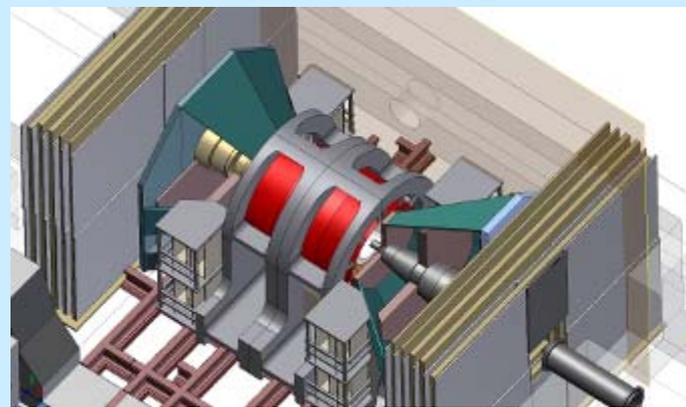


sPHENIX Proposed Upgrade

Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

BNL Review last week

Prototype HCal and EMCal in progress



Silicon Photo Multiplier Holder

TECHNICAL SUPPORT ZONE

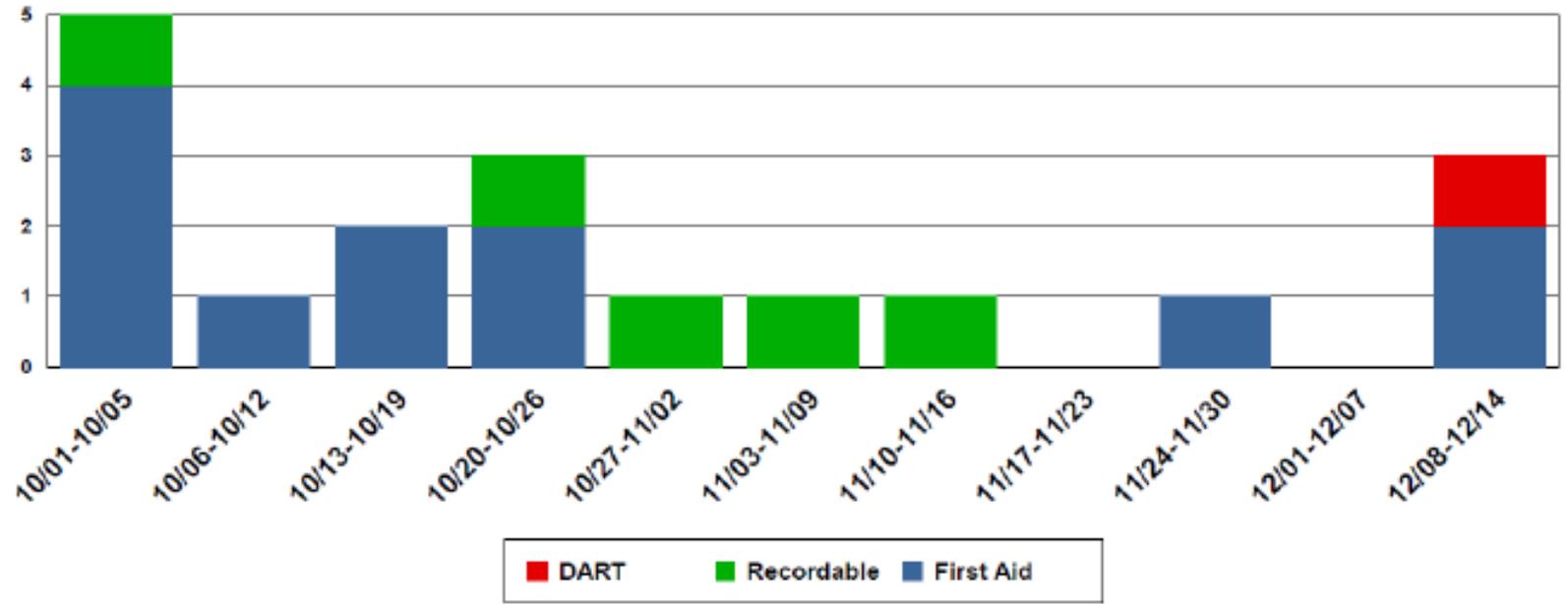
Add several backup MTP fibers from CH to IR - November	Done
MuID Collars to IR, plates, manlift and 12 ton cart to AH, & Roll in EC	Done
VTX Cooling System Upgrades	Done
Prep IR for run	12/7-12/21/2012
RPC Recirculation Upgrade (except analyzer)	12/21/2012
RPC Shielding under DX magnets	12/21/2012
Window Washer pin & spool upgrades	12/21/2012
Christmas Holidays	12/21-1/1/2013
RPC tunnel Shielding (Dave Phillips)	1/11/2013
Pre-run commissioning and prep for run 13	1/11/2013
Pink/Blue/White sheets	12/12/12-1/11/2013
Start run 13	2/11/2013

1. PHENIX Annual Safety Review Today - (Don, Paul, Rob)
2. Remember to lock all doors and secure equipment each day during the holidays



TECHNICAL SUPPORT NON

Injuries Per Week (FY) As of 12/14/2012



Injury Status:

FY13 YTD: DART – 1, TRC – 6, First Aid – 12

FY12: DART – 17, TRC – 35, First Aid – 70

FY11: DART – 30, TRC – 44, First Aid – 45

FY12 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seg/OccInj/BNLInjuries.aspx>

Recent Injuries		
12/12/12	DART	An employee fell while walking, and injured a knee. As a result, he was transported to a local ER for sutures. This is recordable and DART due to the sutures and lost time. (Event Link)
12/11/12	First Aid	An employee was injured when the tool he was using slipped and struck his thumb. After going to the ER that night, the worker returned to work on normal duties. (Event Link)
12/10/12	First Aid	An employee indicated that some chemical was inhaled while opening and manipulating equipment. After transportation to the ER, the worker received first aid treatment and returned to work.

TECHNICAL SUPPORT NON

Recent Events		
12/14/12	Non-Reportable	A hydraulic line failed on a back hoe outside of Berkner Hall, releasing approximately one quart of hydraulic fluid to the ground. Environmental and Grounds personnel responded and completed the cleanup. (Event Link)
12/13/12	Non-Reportable	A utility truck backed into a light pole outside Bldg. 740. The pole broke away, as it was designed to do. There were no other personnel in the path of the truck, and the backup warning was functioning and audible. The F&O Electrical division was contacted to disconnect the light pole from the lighting circuit, and secure the wires inside a temporary, mounted, junction box, until such time as permanent repairs / replacement can be made. (Event Link)
12/12/12	SC-4	F&O South Complex Electricians assigned to re-lamping the overhead light fixtures in Bldg. 479 failed to lockout and tagout the overhead crane. There were no injuries. (Event Link)

Where To Find PHENIX Engineering Info

Mayan Calendar Update



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

