

PHENIX WEEKLY PLANNING



5/9/2013
Don Lynch

This Week

- Run 13 Continues: run support
- Scheduled Maintenance access yesterday:

- next maintenance day: 5/22
- Ethane Tube Trailer Upgrade Continues:
Procedure Done, Plumbing fittings Acquired
- mRPC Test Lab (Formerly RPC Factory): Blue Sheets done, UPS needs repair,
Procedures done ready for approval signatures
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
 - HCal prototype design being firmed up
 - EMCal prototype design continuing
- Continue MPC-Ex design
- Future IR evolution modeling - STAR and PHENIX eRHIC upgrades to be



Next Week

- Run 13 Continues: run support, general maintenance
- Next Scheduled Maintenance Day: Wednesday, May 8
- mRPC Test Lab (Formerly RPC Factory) Startup and Walkthru
- Continue VTX strip pixel stave re-design
- Continue sPHENIX support
- Continue MPC-Ex design
- Future IR evolution modeling



Ethane Trailer Project:
In progress



New Gas Analyzer Project (RPC recirculation and more)

PHENIX
ACCELERATOR
PROJECT

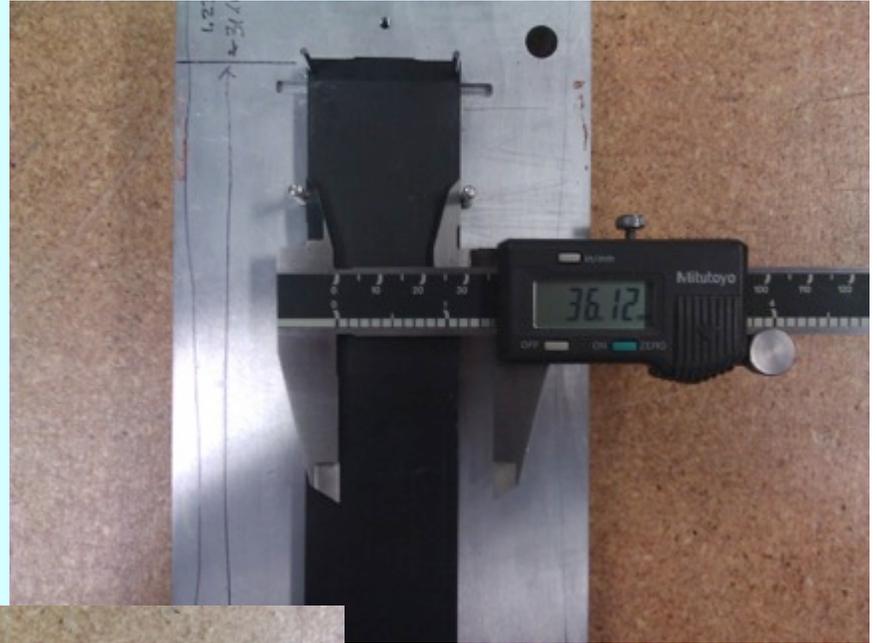


mRPC Test Lab Project



5/9/2013

VTX Repair Project Progress



5/9/2013

TECHNICAL SUPPORT 2013



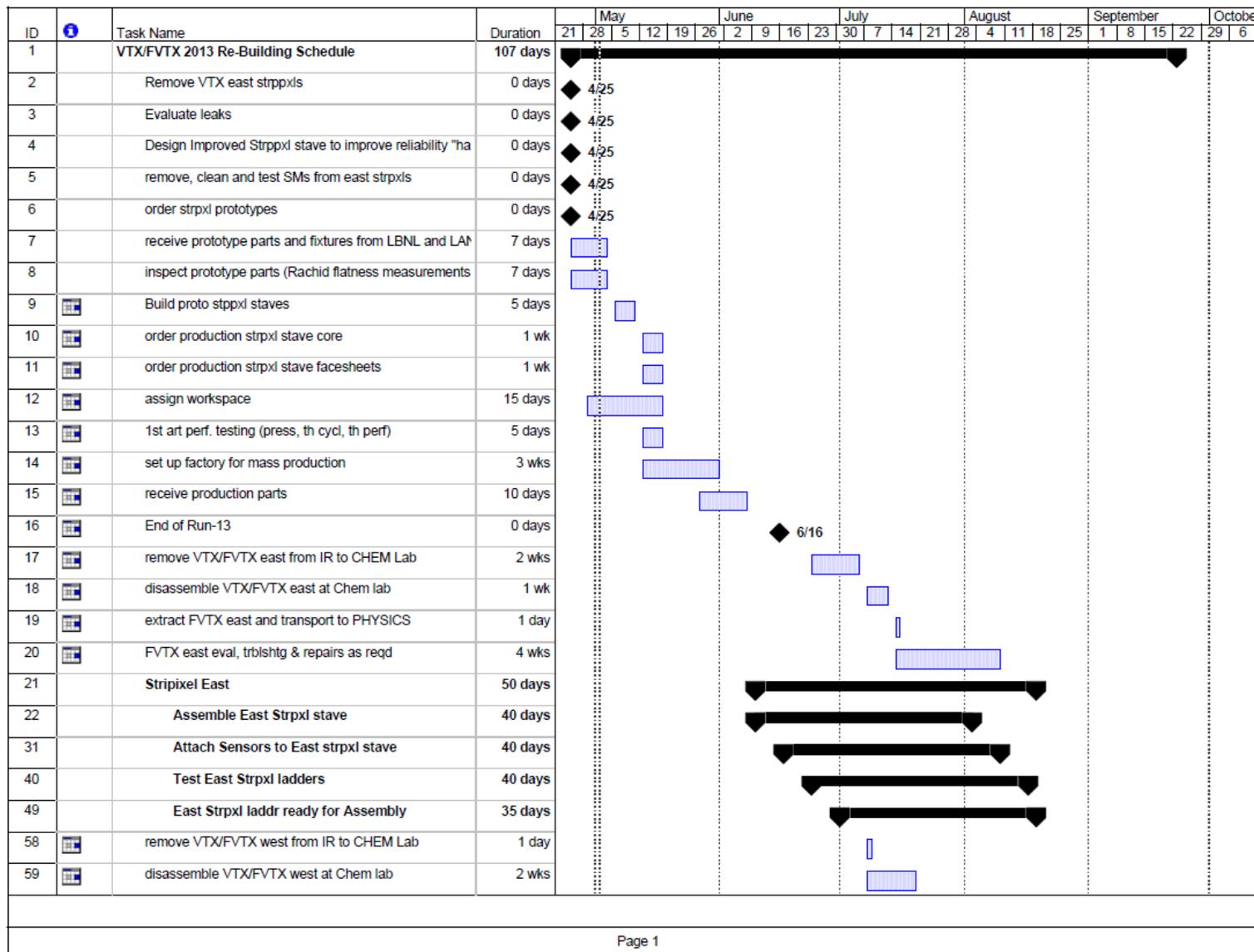
5/9/2013

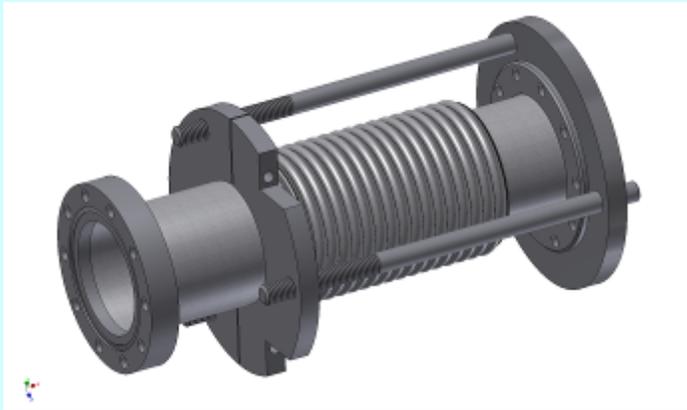


Meeting Today with LLNL Personnel

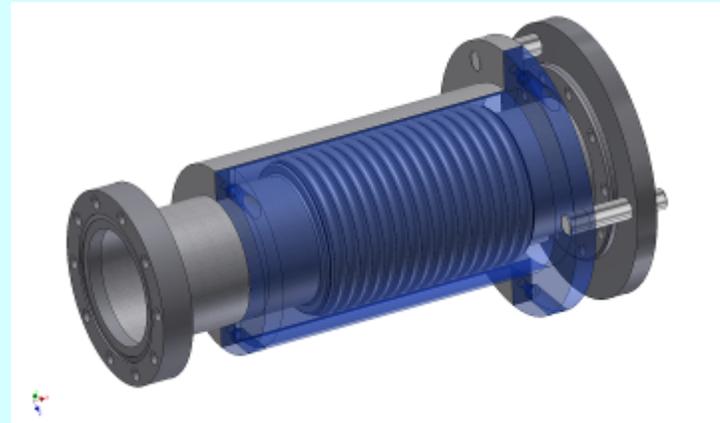
2013 VTX/FVTX Repair/Upgrade/Restoration (cont'd)

PHENIX FACILITY REPORT 2013



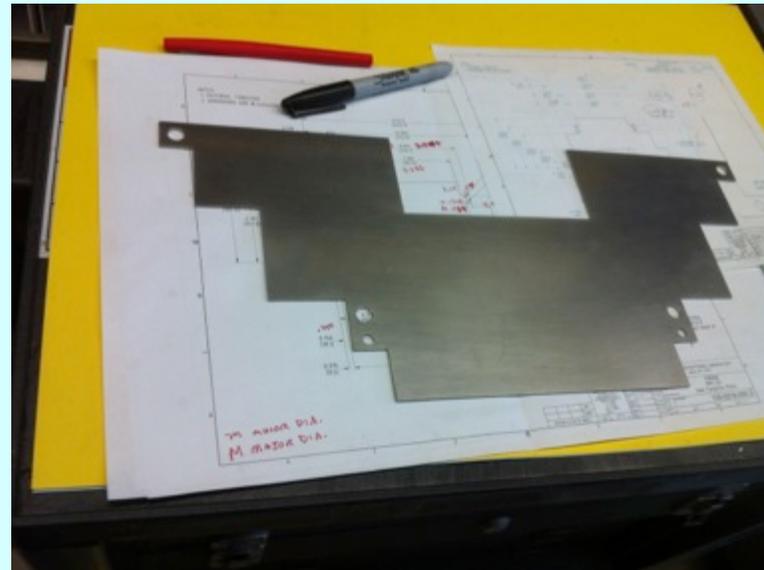


Existing vacuum bellows anti-squirm
In MPC S Cavity



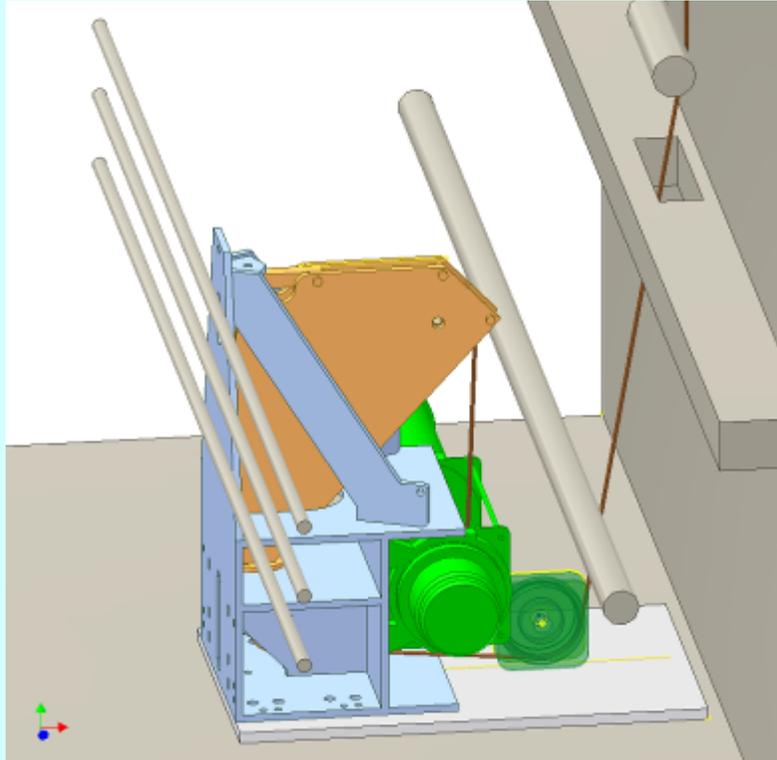
Proposed vacuum bellows anti-squirm
In MPC S Cavity to accommodate MPC-Ex

1st Tungsten Plate received: Inspection OK



Window Washer Winch Upgrade

TECHNICAL REPORT 2013



Purchase Order Pinned

Need to straighten out spec requirements

5/9/2013

Attention: Donald Lynch
Company: Brookhaven National Lab
Phone: 631-344-2253

Based on the information provided to us for an AC hoist to be used for lifting, we are pleased to propose the following:

Line	Qty.	Product:	Net Each	Extended
1	1	Columbia HF2100-2A17-L-03 AC Electric Hoist <ul style="list-style-type: none"> • 2.0 HP TEFC UL-listed brakemotor • 230/3/60 input power • Automatic, load-suspending braking system • Permanently lubricated, high-efficiency planetary gear reduction • Argent gray enamel paint finish • Includes single speed low voltage controls <ul style="list-style-type: none"> ◦ Reversing motor starter in a NEMA 4X fiberglass enclosure ◦ UL-listed ◦ Includes NEMA 4X hand-held pendant control with UP/DOWN momentary contacts and up to 15' lead Does not include wire rope	\$5,022.00	\$5,022.00

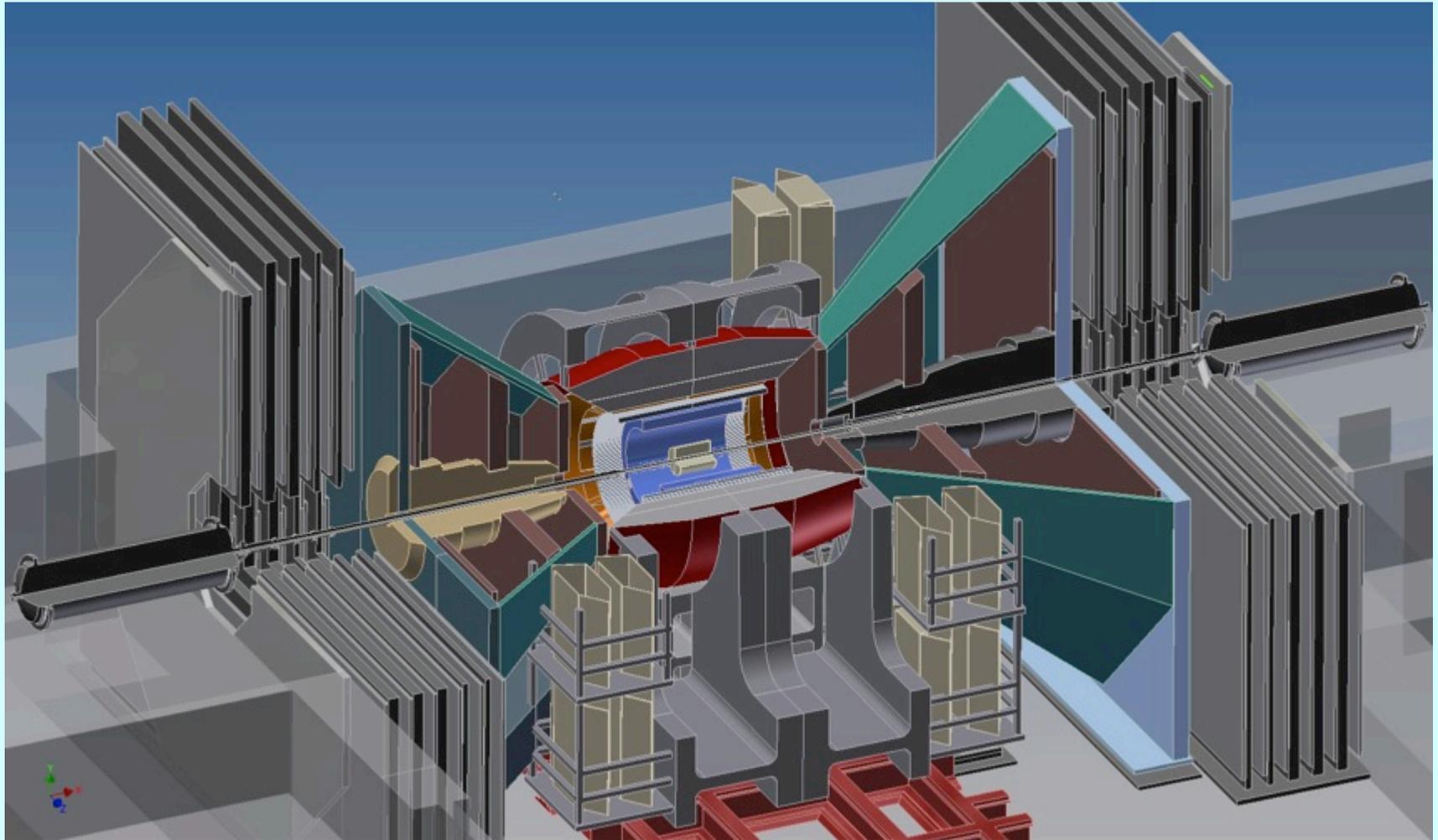
Options:

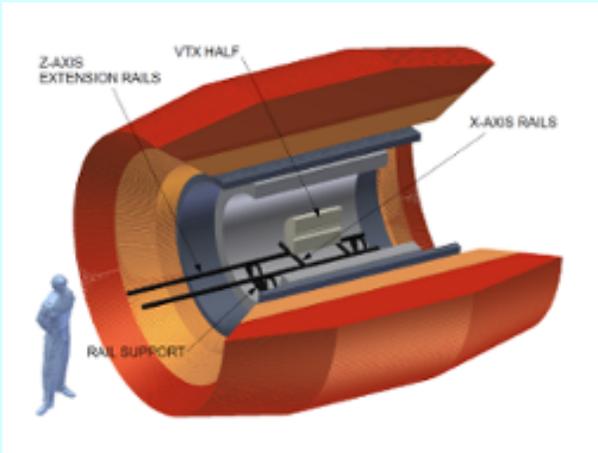
Line	Qty.	Product:	Net Each	Extended
2	1	AutoAdvance Line Spooler <ul style="list-style-type: none"> • Designed and built for Columbia HF2100-2A17-L-03 • Incoming line from front of spooler • Fabricated steel frame • Sheaves are steel construction, grooved for 3/8" line • Ensures proper line spooling regardless of fleet angle • Rope tension must be maintained for proper operation 	\$3,298.00	\$3,298.00

Line	Qty.	Product:	Net Each	Extended
3	1	VLS-6 Vertical Lead Sheave <ul style="list-style-type: none"> • 6,000 lbs load limit • Can be bolted down or welded for installation • Fabricated steel construction • Offset design allows for simple installation at any angle • Bronze bushed steel sheave grooved for 3/8" wire rope 	\$458.00	\$458.00

Line	Qty.	Product:	Net Each	Extended
4	1	Wire Rope <ul style="list-style-type: none"> • 200' of 3/8" stainless steel wire rope (7x19 construction) with latching hook • Supplied loose 	\$684.00	\$684.00

sPHENIX





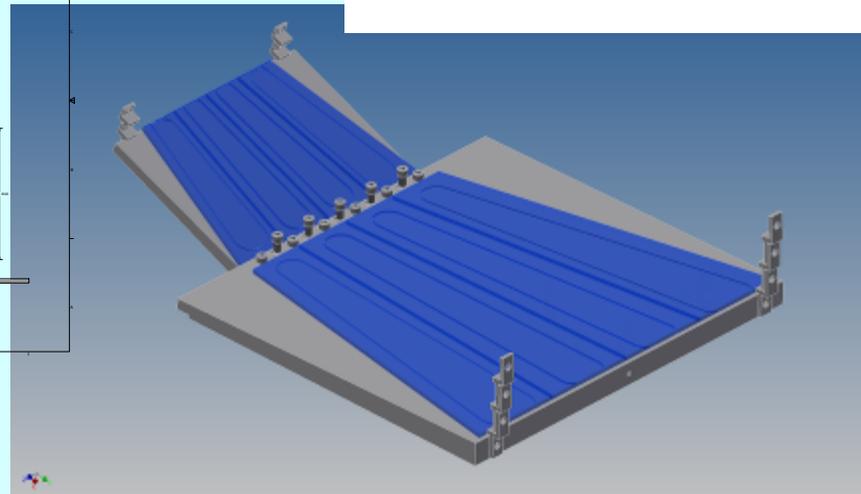
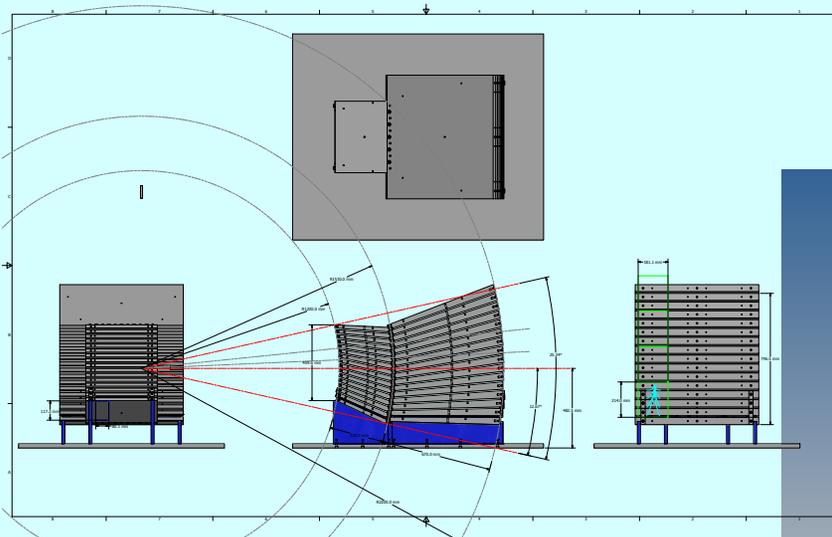
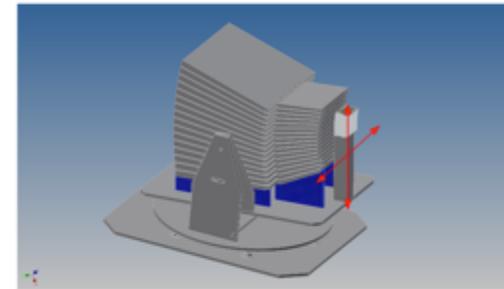
sPHENIX Proposed Upgrade

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

Prototype HCal and EMCAL in progress

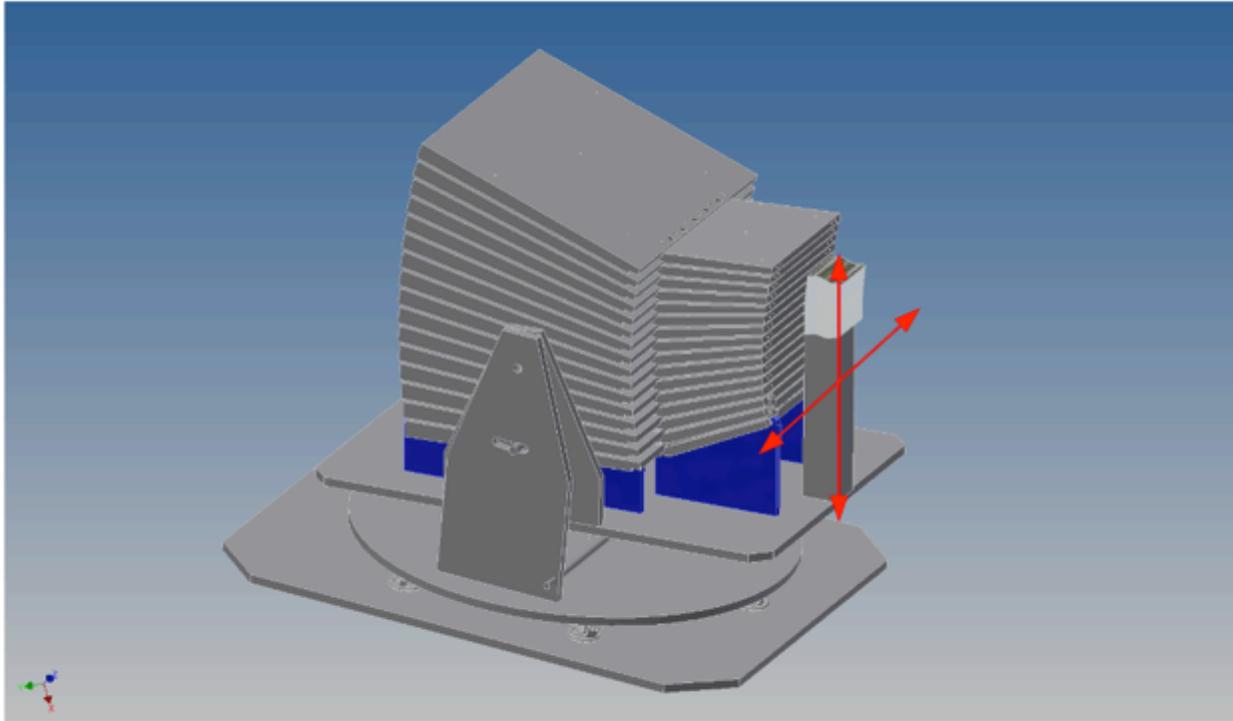
Bid packages for Hcal steel and scintillators in progress to be issued by end of the month

Meeting tomorrow with Magnet experts (Friday 4/26) to define SMD participation to develop SC Magnet preliminary design report by July



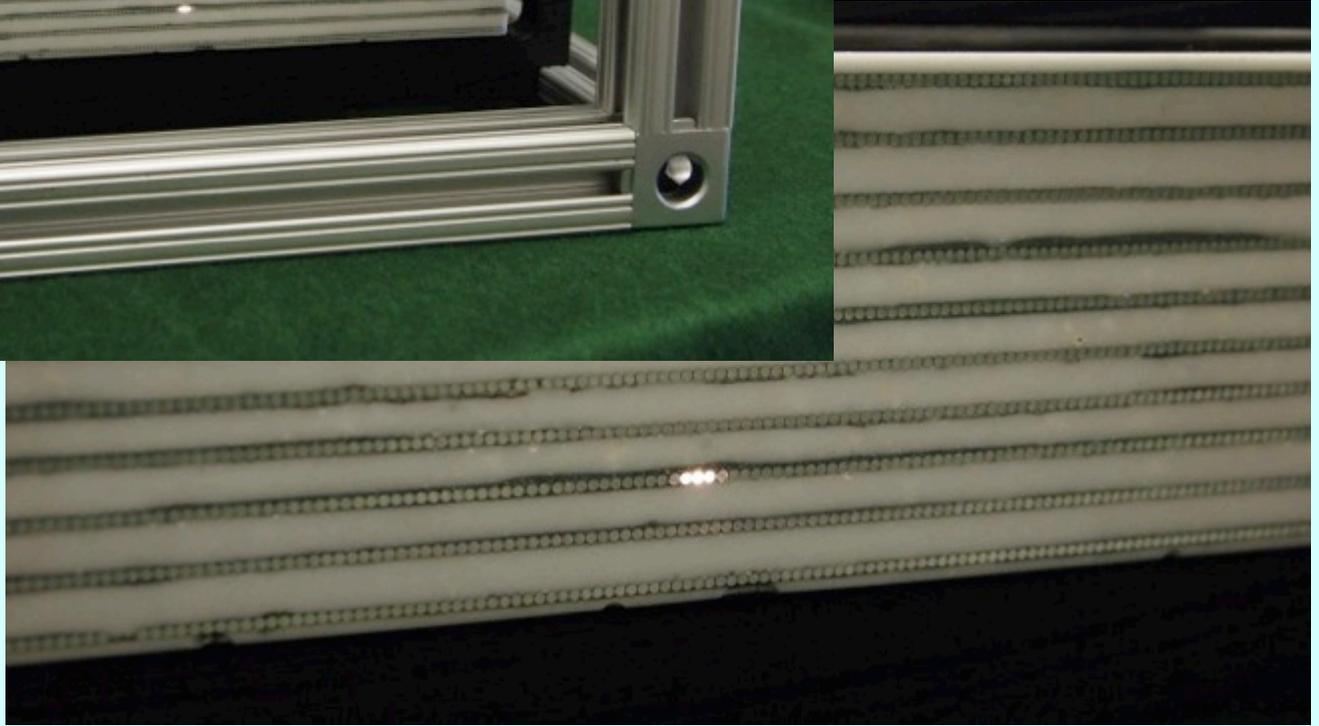
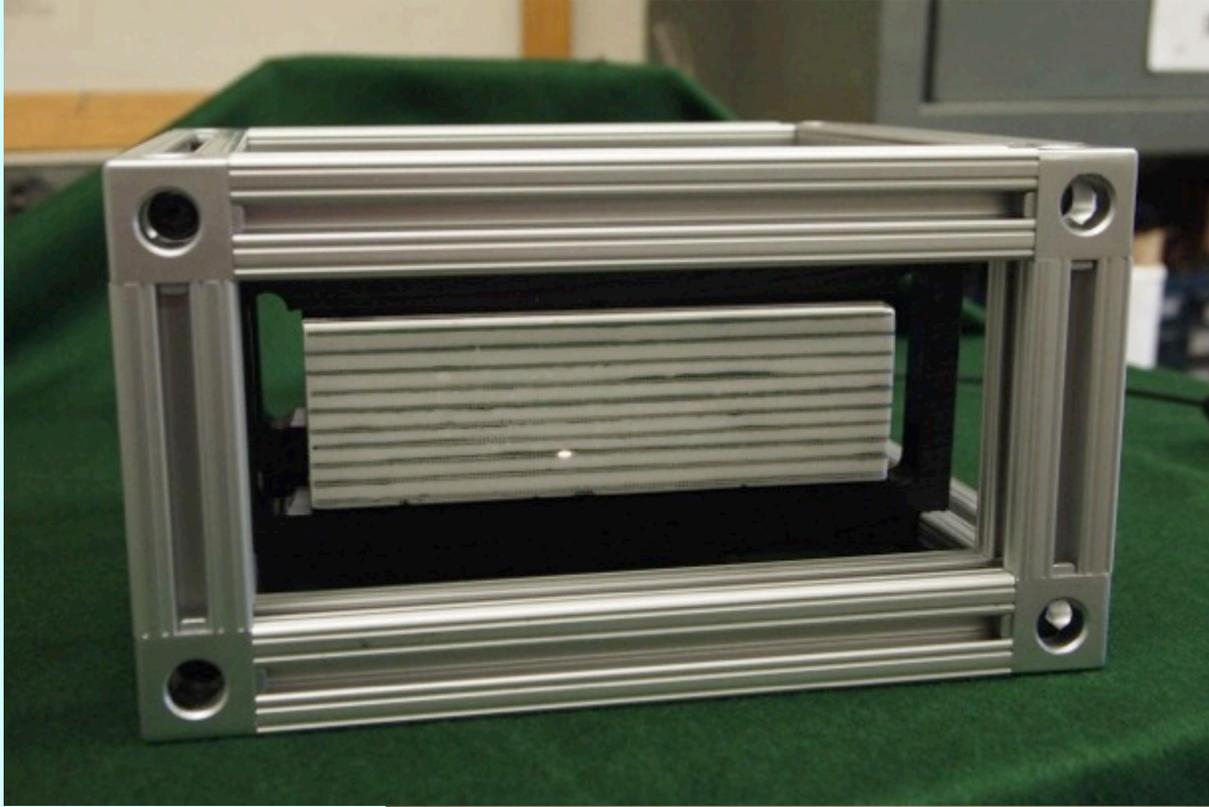
5/9/2013

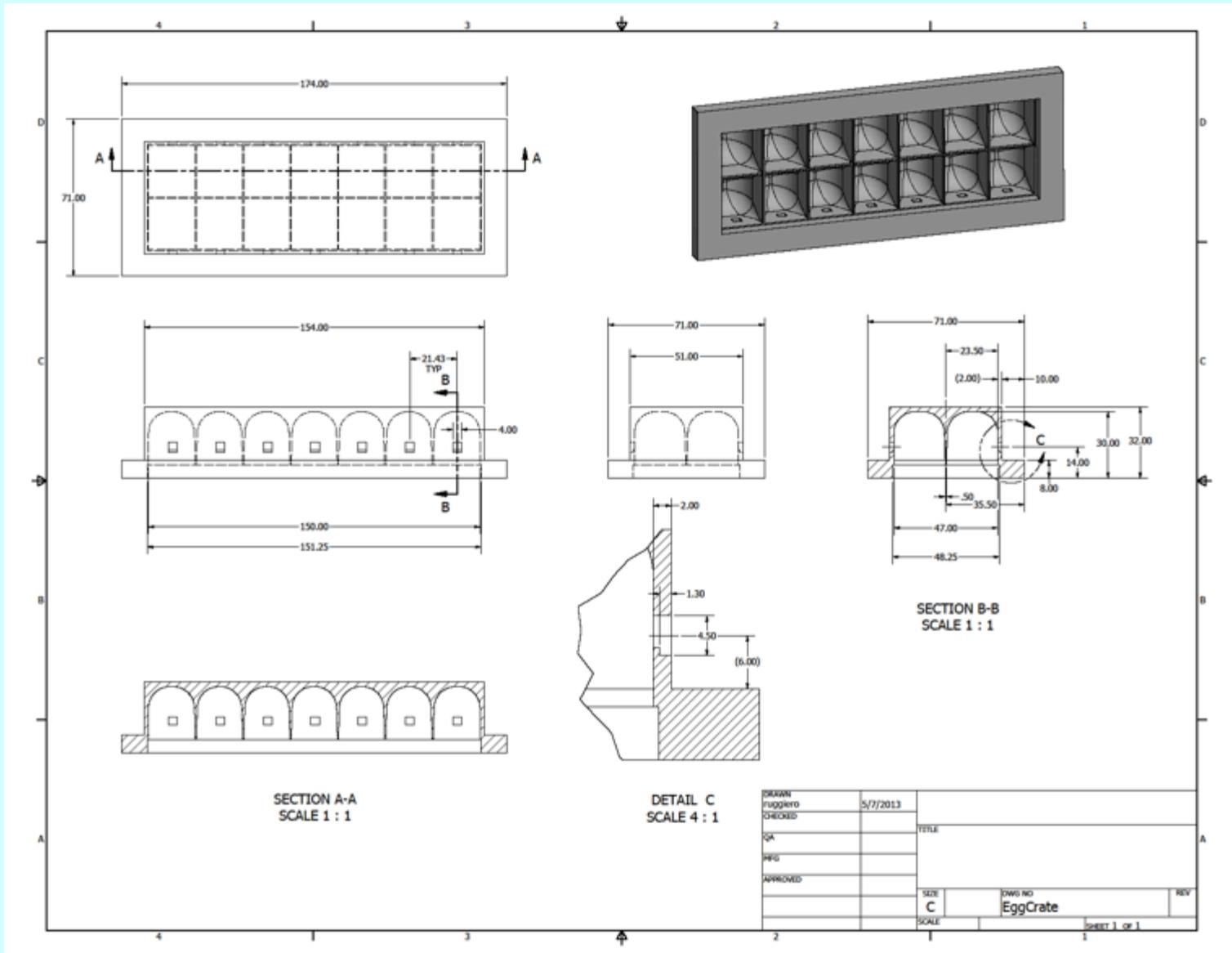
HCal Prototype Assembly Including 2 rotational DOF's



Expect to place order for HCal prototype parts next week

TECHNICAL SUPPORT 3-102





Drawing for light collection structure

Major Projects This Summer:

- VTX repairs/upgrades/general maintenance (Mike L.)
- DC East Window Replacement (Kenny J.)
- MPC-Ex Initial (partial) Installation (Jim L.)
- mRPC Tests in mRPC Test Lab (formerly RPC Factory) (Frank T.)
- sPHENIX Prototypes assembly & tests (All)
- MuTr troubleshooting and Repairs (Chris P.)
- Window Washer Winch upgrade (Jim L.)

Other Mechanical (TBD)

Other Electrical Projects

- HVAC Controls Upgrade (Frank T.)
- Complete Window Washer Controls Upgrade (Frank T.)

Other Electronics Projects

- Additional upgrading of ADAM system to MODBUS (Sal P.)
- Electronics research in support of sPHENIX and RATCAP (Sal P.)
- Lecroy HV communications upgrade (Sal P.)

Other Gas System Projects (TBD)

- RPC Gas Recirc. Upgrade (John T.)
- Drawing and Config. Control Improvements (SULI Student)

Other Infrastructure Projects (TBD)

Prep for 2013 shutdown	2/11-6/11/2013
Design, Fabricate MPC-Ex	
Define tasks and goals	
Analysis and design of fixtures, tools and procedures	
Fabricate/procure tools and fixtures	
Tests, mockups, prototypes	
Receive, fabricate, modify, finish installables	
Review and approval of parts, tools, fixtures and procedures	
Assembly and QA tests	
VTX Strippixel redesign	In-progress
VTX Strippixel 1 st article stave assembly	5/3/2013
VTX Strippixel 1 st article qualification/performance tests	5/17/2013
VTX strippixel stave production	5/20-8/30/2013
VTX Strippixel sensor reclamation	4/1-8/30/2013
VTX Strippixel ladder assembly	6/1-9/27/2013
Pixel Ladder repairs	in progress
End of Run Party	6/28/2013
Run 12 Ends	6/11/2013
Shutdown Standard Tasks	6/11-7/19/2013
• Open wall, disassemble wall, Remove MuID Collars,	
• Move EC to AH, etc.	
Disassemble VTX/FVTX services	7/1-7/19/2013
July 4 th Holiday	7/4-5/2013
Remove VTX/FVTX and transport to Chemistry Lab	7/8/2013
Assemble, Test and Install MPC-Ex (North only?)	7/22-10/1/2013

TECHNICAL SUPPORT 2013

MuTR Troubleshooting, maintenance and repairs	7/22-9/27/2013
Summer Sunday (8/11) Prep and teardown	8/7-8/13/2013
Summer Sunday (RHIC)	8/11/13
DC East Window Upgrade and Related Repairs	8/19-9/27/2013
sPHENIX HCal Prototype Assembly/test	8/19-10/15/2013
Labor Day Holiday	9/2/2013
Repair upgrade, reassemble VTX/FVTX (pixels and strip-pixels)	7/11-10/13/2013
Test, survey (at Chemistry and IR) and re-install VTX/FVTX	10/16-10/27/2013
Other detector maintenance as required	As required
Infrastructure maintenance as required	As required
TBD prototype tasks	As required
Pre-run commissioning and prep for run 14	11/1-12/31/2012
Veterans Day, Lab Holiday	11/11/2013
Prep for EC roll in	11/1-11/9/2013
Roll in EC	11/10-11/12/2013
Prep IR for run	11/1-11/30/2013
Thanksgiving Holidays	11/28-29/2013
Pink/Blue/White sheets	12/14-12/31/2013
Christmas Holiday	12/24-25/2013
New Year's Day Holiday	1/1/2014
Start run 14	1/2/2014

Environmental, Safety, Security, and Health Policy



This document is a statement of Brookhaven National Laboratory's (BNL) Environmental, Safety, Security, and Health (ESSH) policy. BNL is a world leader in scientific research and performs this work in an environmentally responsible and safe manner.

I expect every employee, contractor, and guest to take personal responsibility for adhering to the following principles:

- Environment:** We protect the environment, conserve resources, and prevent pollution.
- Safety:** We maintain a safe workplace and we plan our work and perform it safely. We take responsibility for the safety of ourselves, coworkers, and guests.
- Security:** We protect people, property, information, computing systems, and facilities.
- Health:** We protect human health within our boundaries and in the surrounding community.
- Compliance:** We achieve and maintain compliance with applicable ESSH requirements.
- Community:** We maintain open, proactive, and constructive relationships with our employees, neighbors, regulators, DOE, and other stakeholders.
- Continual Improvement:** We continually improve ESSH performance.

In addition to my annual review of BNL's progress on ESSH goals and adherence to this policy, I invite all interested parties to provide me with input on our performance relative to this policy, and the policy itself.

Signed 
Doon Gibbs, Director

April 15, 2013

BROOKHAVEN
NATIONAL LABORATORY

Safety and Security

Annual ISO14001 and OHSAS 18001 Registration

Next week 5/15-5/16

FAQ on OSH for Staff

<http://www.c-ad.bnl.gov/ESSHQ/SND/faqonism.htm>

FAQ on OSH For Managers

<http://www.c-ad.bnl.gov/ESSHQ/SND/faqforismfor%20managers.htm>

FAQs on OSH for Users

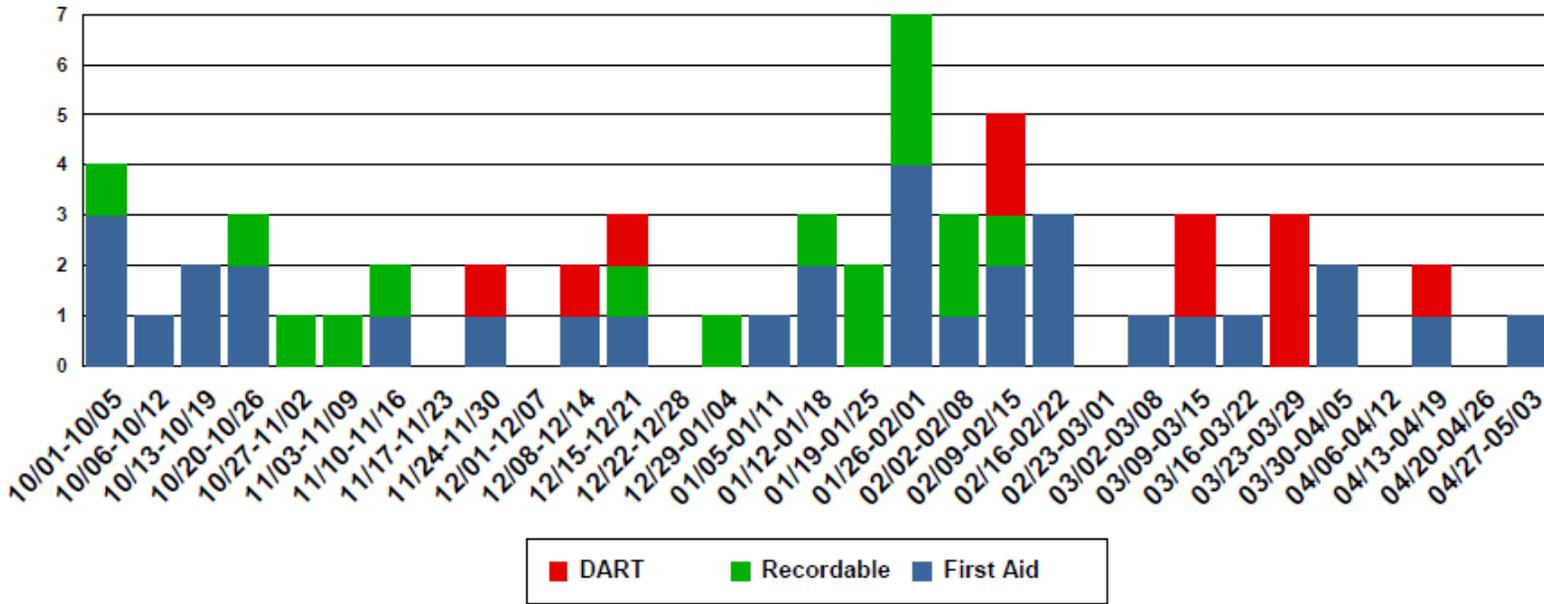
<http://www.c-ad.bnl.gov/ESSHQ/SND/faquser.htm>

FAQ on EMS

http://www.c-ad.bnl.gov/ESSHQ/SND/faq_on_ems.htm



Injuries Per Week (FY)
As of 5/3/2013



Injury Status:

FY13 YTD: DART – 11, TRC – 27, First Aid – 32

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

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

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

Recent Injuries

4/30/13	First Aid	An employee stood up and struck the side of their face against an immovable object. At the OMC, first aid was given.
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Recent Events

4/30/13	Non-Reportable	One BSA employee and one guest driving their personal vehicles were involved in a minor traffic accident. There were no injuries and one car received minor front fender damage. (Event Link)
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Where To Find PHENIX Engineering Info

Run 13:

Less than 5 weeks to go !

