

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT ZONE



2/9/2012
Don Lynch

This Week

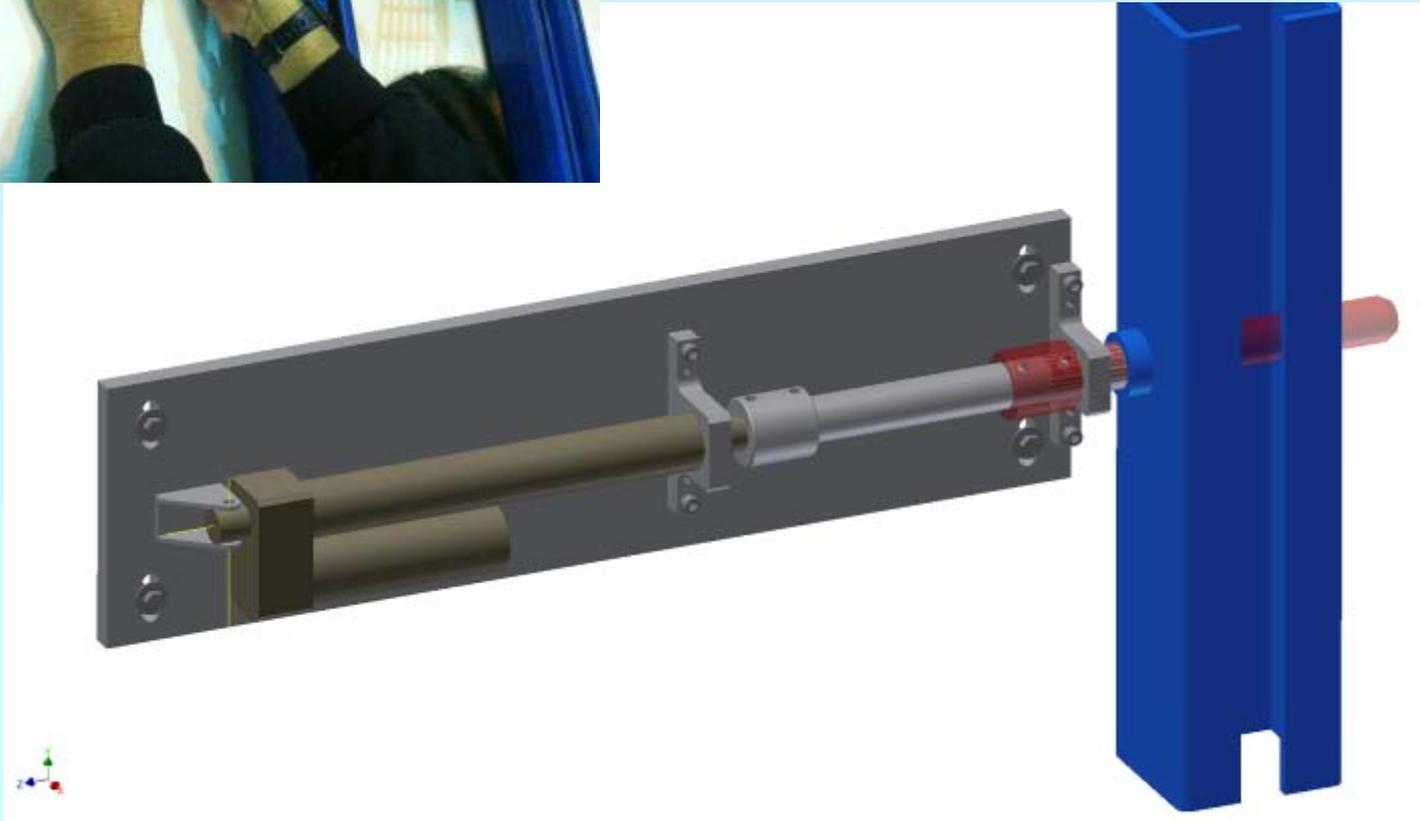
- New detector commissioning
- Cosmic Ray Tests
- Run 12 beam commissioning
- maintenance Day - Today 8 hr restricted access to IR and tunnels
 - Move VTX/FVTX to run position
 - DC repairs
 - Other?
- MPC North rack assembly
- Planning and preparation for 2012 shutdown

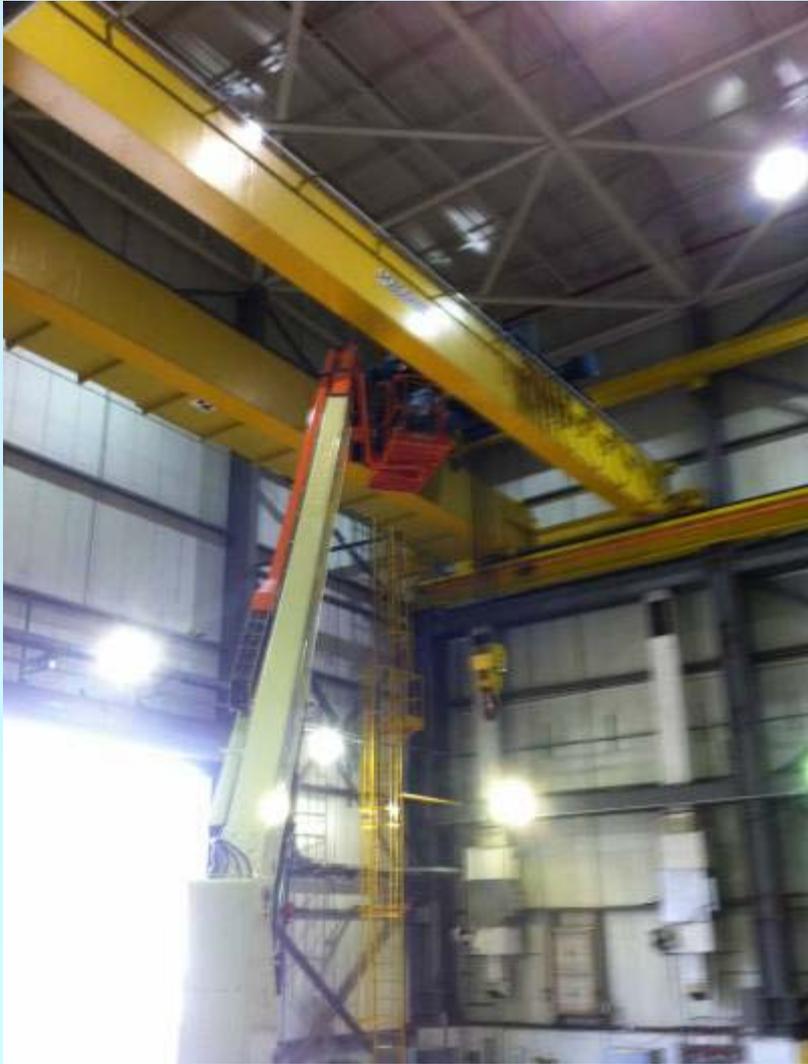
Next Week

- Run run run
- maintenance Day - Wed 8 hr access (may be cancelled?)
 - No planned tasks yet?
- MPC North rack assembly
- Planning and preparation for 2012 shutdown
- sPHENIX design and analyses



Window Washer Safety Pins:
Remote insertion/retraction





10 ton crane repair



Looking Ahead to the 2012 Shutdown

TECHNICAL SUPPORT FRONTLINE

Major Projects:

- Remove VTX/FVTX
- Repair upgrade, tst, reinstall VTX/FVTX
- Remove/Repair/Upgrade MuTr Station 1 South
- Station 2 South (north side) upgrade
- Station 3 North and South (upper half)
- re-capacitation and air manifold upgrades
- RPC stations 1 and 3, north and south maintenance
- Other detector maintenance as required
- Infrastructure maintenance as required
- TBD prototype tasks



T
E
C
H
N
I
C
A
L
S
U
P
P
O
R
T
Z
O
N
E

Rough Schedule:

| | |
|--|-----------------|
| Prep for shutdown | 2/1-6/15/2011 |
| 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 | |
| Run 12 Ends | 6/15/2012 |
| Shutdown Standard Tasks | 6/15-7/13/2012 |
| • Open wall, disassemble wall, Remove MuID Collars, | |
| • Move EC to AH, etc. | |
| Disassemble VTX/FVTX services | 7/2-7/20/2012 |
| Remove VTX/FVTX and transport to Chemistry Lab | 7/20/2012 |
| Remove MMS & MMN vertical East lampshades | 7/23-7/27/2012 |
| MuTr South Station 1 work | |
| Install access (Sta. 1work platforms) | 7/23-7/27/2012 |
| Disconnect Cables, hoses etc, ID/label all | 7/30-8/3/2012 |
| Remove FEE plates and chambers | 8/6-8/10/2012 |
| Station 2 Terminators and manifold upgrade through access opened by station 1 removal | 8/13/-8/31/2012 |

Looking Ahead to the 2012 Shutdown (Continued)

TECHNICAL SUPPORT ZONE

MuTr South Station 1 work (Cont'd)

Clean/install new MuTr Sta. 1 chamber parts and upgrades
(concurrent At RPC Factory)

Re-install chambers and FEE plates

Re-cable, re-hose and test

Repair upgrade, test, reinstall VTX/FVTX

Station 3 North and South (upper half)

re-capacitation and air manifold upgrades

Summer Sunday (RHIC)

Substation breaker upgrade/test (CAD)

AH utility power distribution upgrade

RPC stations 1 and 3, north and south maintenance

Other detector maintenance as required

Infrastructure maintenance as required

TBD prototype tasks

pre-run commissioning and prep for run 13

Prep for EC roll in

Roll in EC

Prep IR for run

Pink/Blue/White sheets

•Start run 13

8/13/-8/31/2012

9/4-9/7/2012

9/10-9/28/2012

7/23-9/17/2012

7/23-9/30/2012

8/5/12

TBD

TBD

As required

As required

As required

As required

10/1-11/30/2012

11/5-11/9/2012

11/12/2012

11/12-10/17/2010

10/17-11/30/201

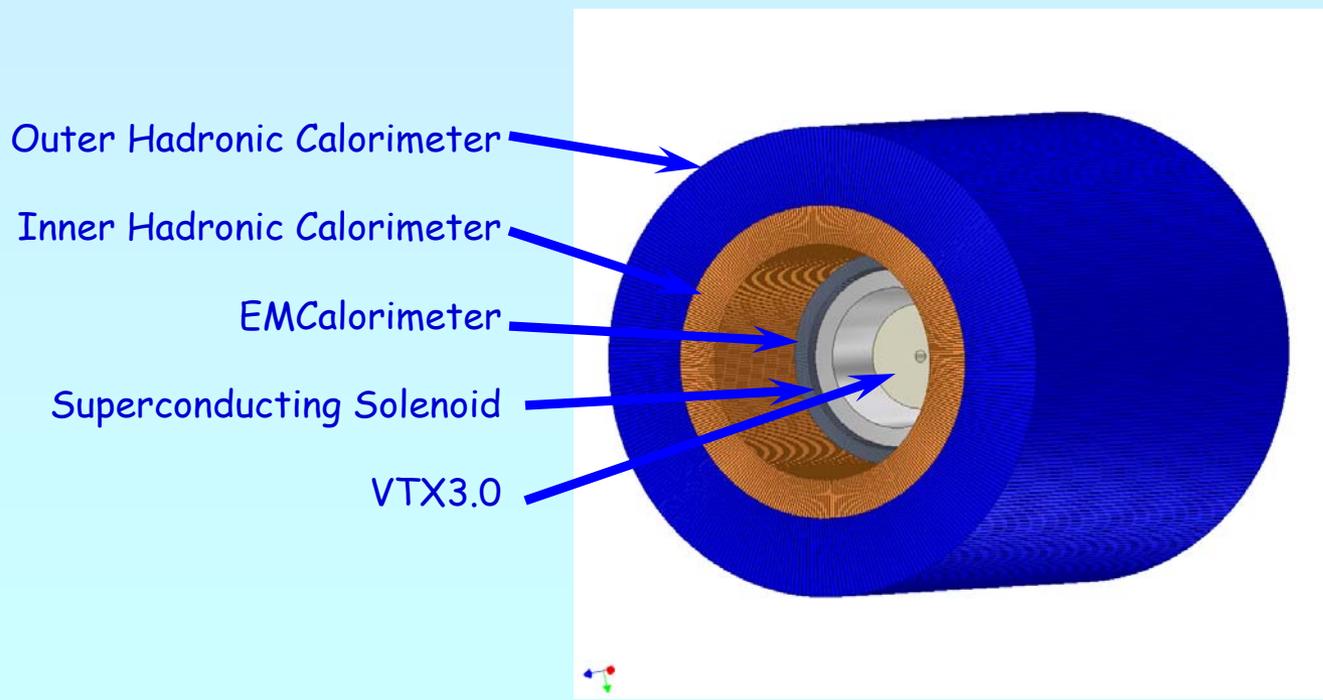
12/3/2012



TECHNICAL SUPPORT ZON

sPHENIX Upgrades

PHENIX engineering and design are providing support for overall structural and spacial design and modeling, cost estimation and prototype design/fabrication

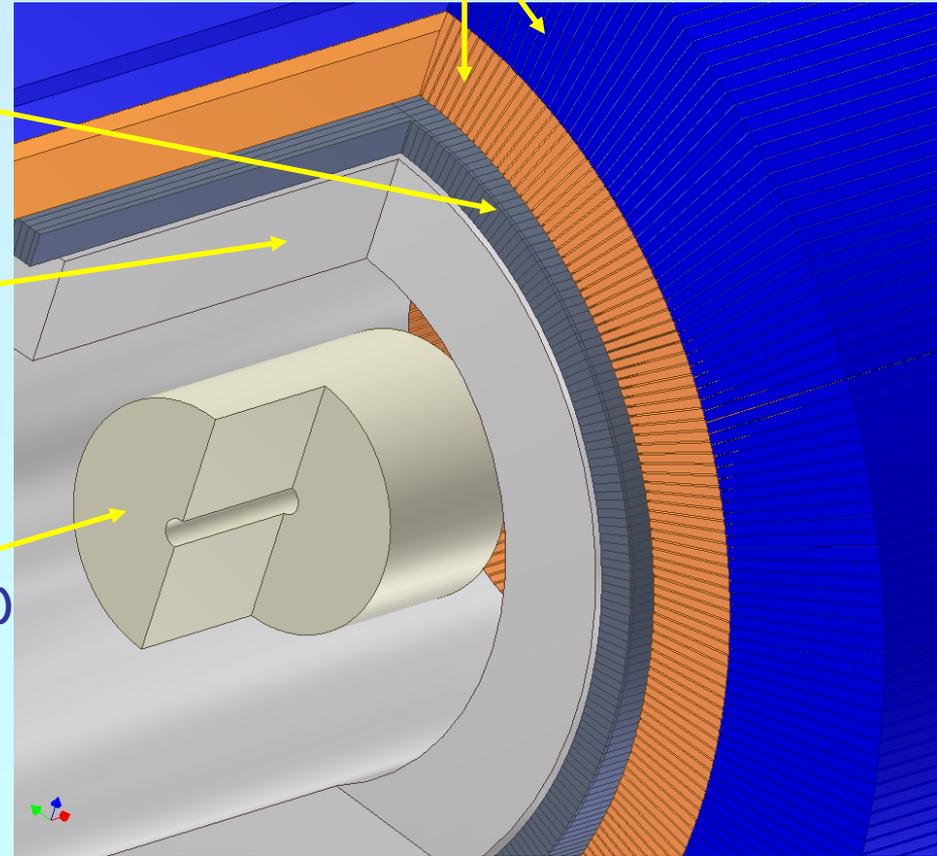


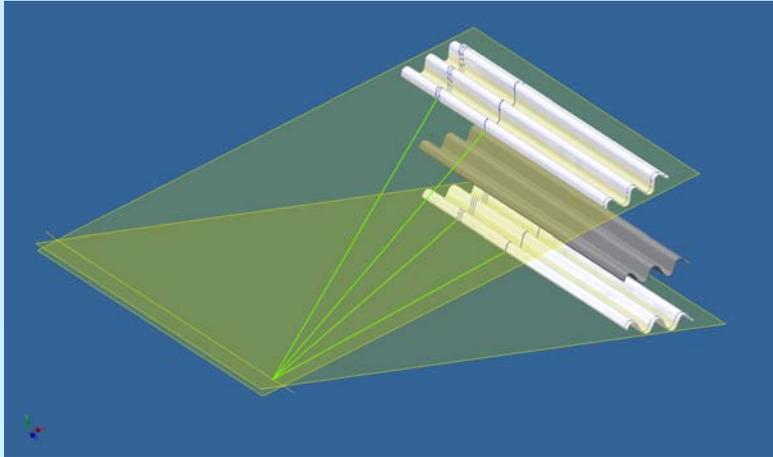
ElectroMagnetic Calorimeter
314 segments, Tungsten
and scintillator 0.125 m th
3.5 m long

Superconducting solenoid
2 Tesla Magnet and cryostat
.95 m inner radius, .39 m th

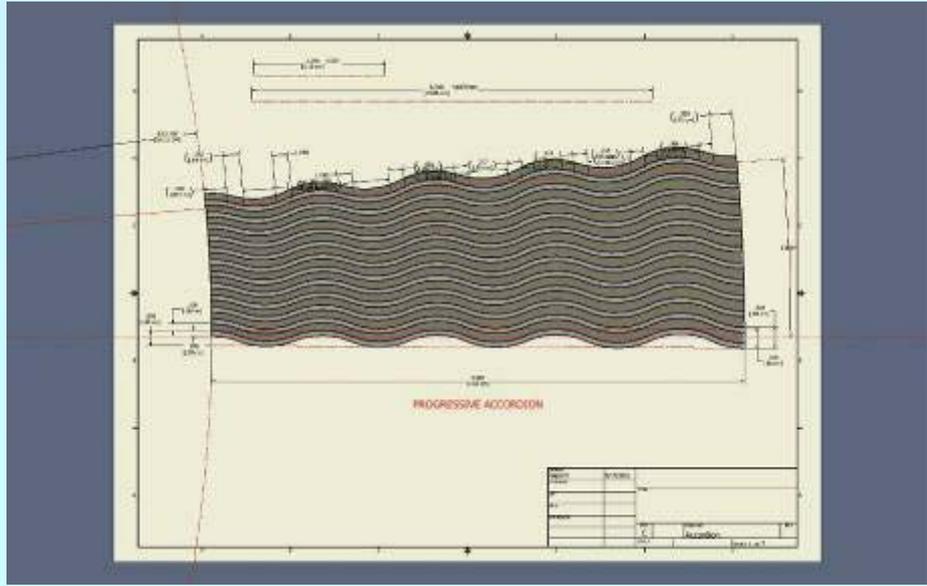
VTX 3.0 vertex detector
(upgraded from present VTX)

Inner and outer Hadronic Calorimeters
320 segments each, steel and scintillator
1 meter total thickness, 6+ meters long





Electromagnetic calorimeter segments sing "accordion" shaped scintillators and tungsten plates to optimize detector sampling



Infrastructure Issues

TECHNICAL SUPPORT ZONE

- 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)
- Septic odor on the east side of trailers



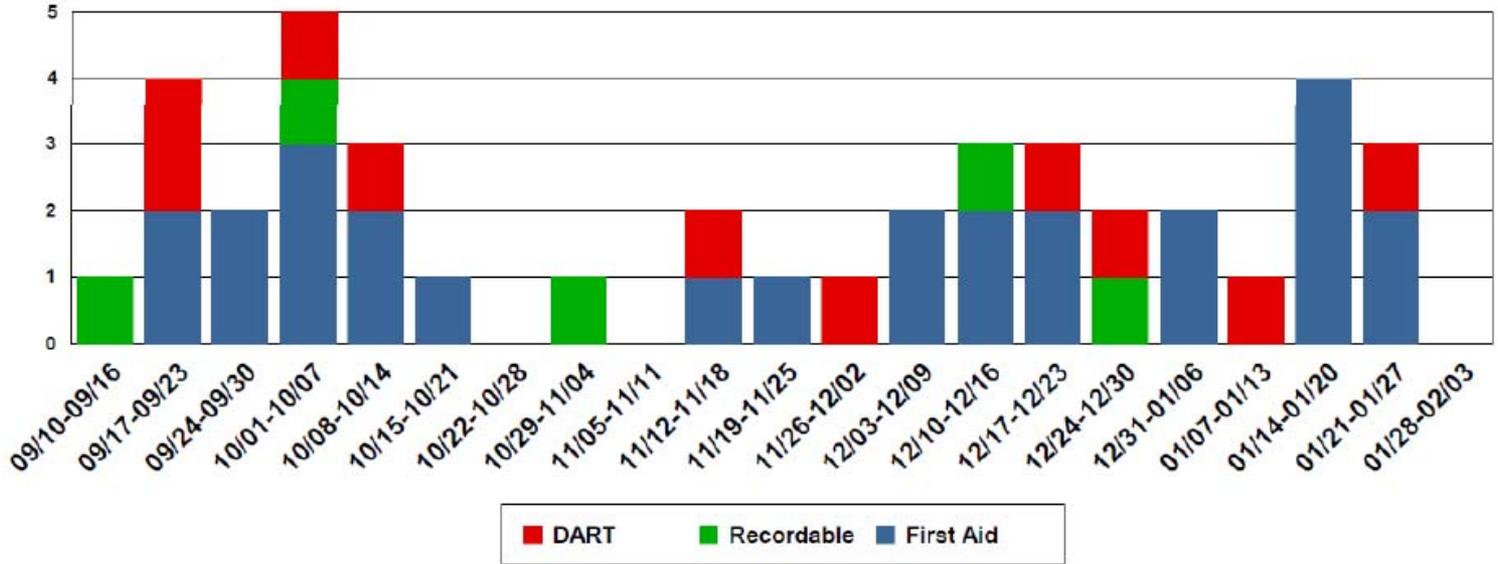
TECHNICAL SUPPORT ZONE

1. Due to the special access today, the PHENIX Engineers and Technician review of 2011 shutdown projects is moved from today to next Tuesday 2/14/12 at 10:00 AM.

2. From Ray Karol: The Top 10 Safety Violations in 2011 according to OSHA:
 1. Fall protection (7139 violations)
 2. Scaffolding (7069 violations)
 3. Hazard communication (6538 violations)
 4. Respiratory protection (3944 violations)
 5. Lockout/tagout (3,639 violations)
 6. Electrical, wiring methods (3584 violations)
 7. Powered industrial trucks (3432 violations)
 8. Ladders (3244 violations)
 9. Electrical, general requirements (2863 violations)
 10. Machine guarding (2728 violations)



Injuries Per Week As of 2/3/2012



Injury Status:

FY12 YTD: DART – 8, TRC – 12, First Aid – 22
 FY11: DART – 27, TRC – 42, First Aid – 45
 FY10: DART – 19, TRC – 33, First Aid – 52

| Recent Injuries | | |
|-----------------|--|------|
| | | None |

| Recent Events | | |
|---------------|--|------|
| | | None |

Where To Find PHENIX Engineering Info

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

