

PHENIX WEEKLY PLANNING

10/05/06

Don Lynch

PHENIX Shutdown Overview



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| Task_Name | Start_Date | Finish_Date |
|--------------------------------------|------------|-------------|
| PHENIX Shutdown '06 | 5/1/2006 | 12/8/2006 |
| Pre Shutdown Tasks | 5/1/2006 | DONE |
| End of Run 6 | 6/27/2006 | DONE |
| Shutdown Preparations | 6/27/2006 | DONE |
| Detector Upgrades | 7/19/2006 | 10/19/2006 |
| Planned electrical power outage | 7/24/2006 | DONE |
| Subsystem maint/repair tasks | 7/19/2006 | 10/10/2006 |
| Building and infrastructure tasks | 5/1/2006 | 10/31/2006 |
| E carriage roll in & setup | 10/23/2006 | 11/10/2006 |
| RHIC Cooldown Begins | 12/1/2006 | 12/1/2006 |
| Run Prep | 11/20/2006 | 12/31/2006 |
| Shutdown Concluded Start Physics Run | 1/1/2007 | 1/1/2007 |

+ Assumes 12/1 start of cooldown

TOF West

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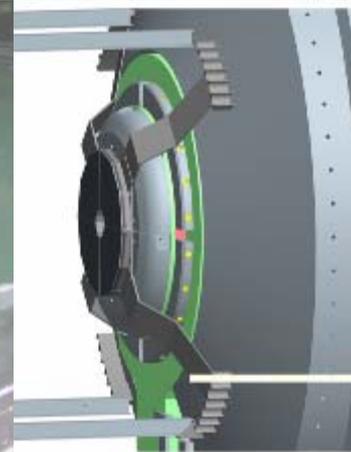
- Mechanical Installation Complete
- Cables Run
- Rack Modifications complete
- Gas supply control system (mixing house) in progress
- Electronics installation in progress
- Testing and commissioning to be completed



RXNP

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- Mechanical installation Complete
- Cables run
- Rack plumbing, power Complete
- Electronics installation in progress
- Testing and commissioning to be completed



- Mechanical Installation HBD West Complete
- HBD West Cables Run
- Testing and commissioning to be completed
- HBD East now at Stony Brook due here 10/18/06; mechanical installation to be completed by 10/20/06
- Cooling & Bakeout heater systems to be installed
- Gas Hutch renovation ongoing



HBD (Hadron Blow Drier) Electronics Cooling

TUESDAY - 10/05/06 12:00

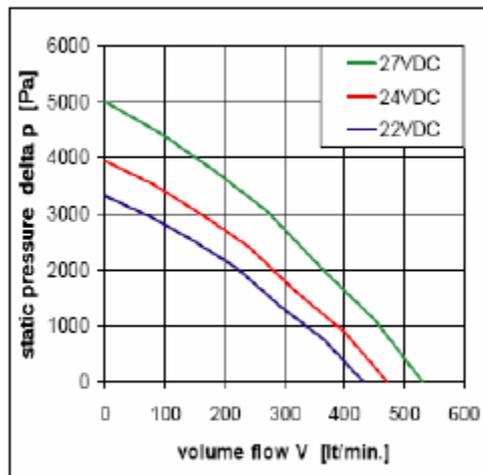


Still Needed for Approval to Operate:

- Where will fan(s) be mounted? - *CM base "cubby hole" fan model and specs to be forwarded to Safety*
- Written design and operation description and- *To be forwarded to Safety*
- Order for 5 blowers & drivers (4 +1 spare) is in the works



U51DX-024KK-5 24VDC



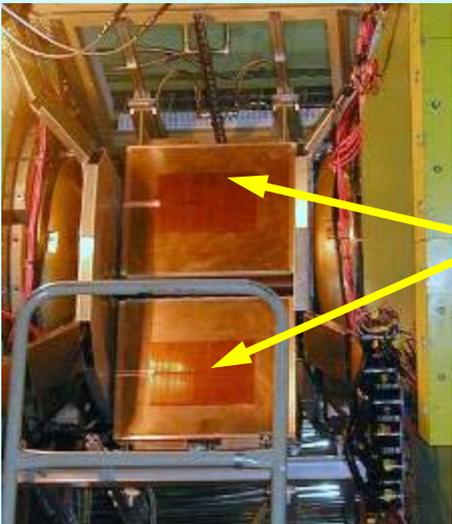
Blower requirements:
5 cfm (142 l/min)
@ 5 in WC (1245 Pa)

HBD "EBO" Heaters

TECHNICAL SUPPORT NO. 2006

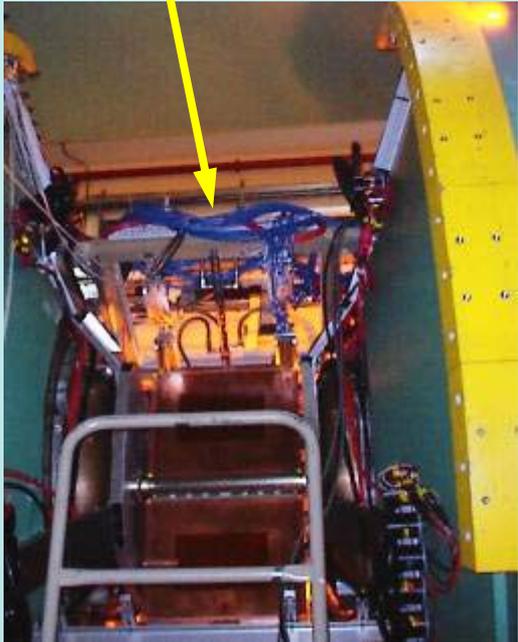
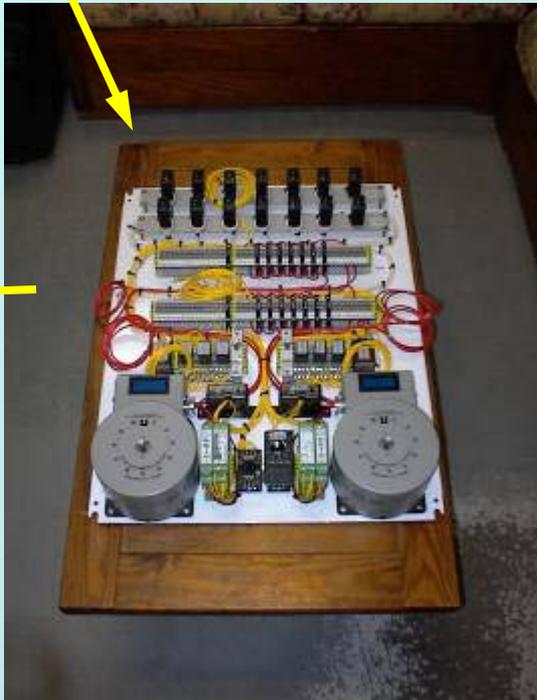
Needed for Approval to Operate:

- Report detailing design and operation- To be forwarded to Safety



Heaters

Heater Controls



Control wiring

HBD Signal Rack

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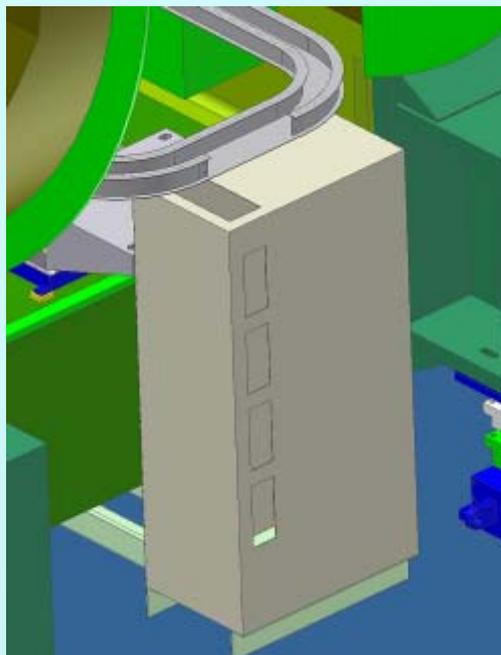


Cutouts for signal cables
To Be completed by 10/13

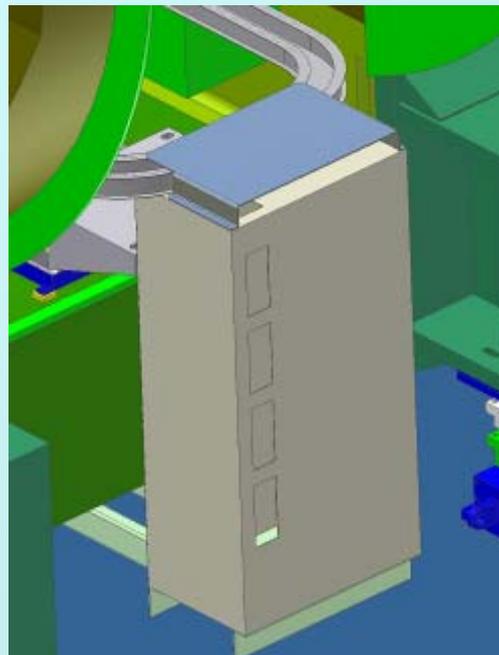


Signal cables routed down east
side of crate covered by "chimney"

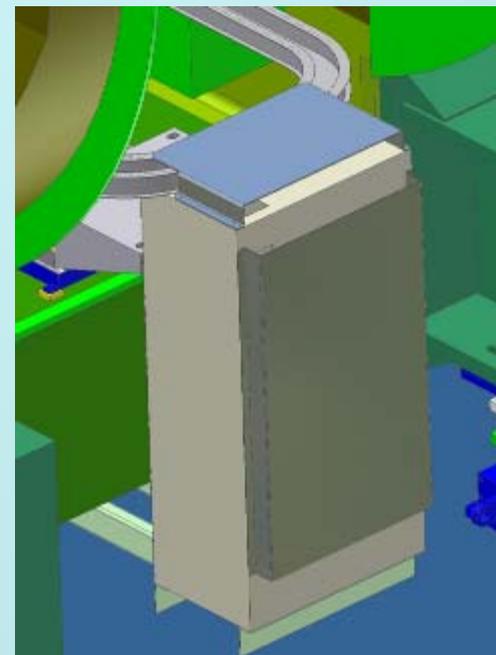
HBD Signal Rack

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1. Modify tray and rack side panel



2. Add $\frac{1}{4}$ " top plate/cover



3. Add 4" chimney

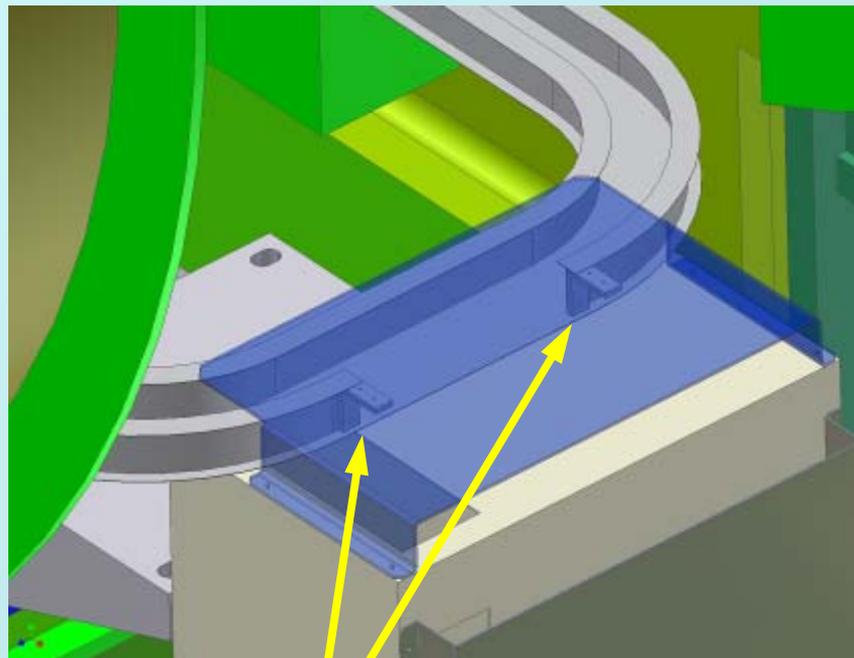
Parts are done at Central Shops. To be picked up.

HBD Signal Rack

T E S T I N G - A - S U P P O R T + 3 0 0 2 0 0 6



4. Existing connecting member for "U"-tray to be removed



5. Internal supports replace connecting member and supply support for the $\frac{1}{4}$ " thick top cover/step

Remaining Schedule

TECHNICAL SUPPORT 2006

| | Start | Complete |
|--|-------------|----------|
| TOF West | | |
| Electrical, modify/upgrade rack | in progress | 10/13/06 |
| Commissioning | in progress | 10/13/06 |
| RXNP | | |
| Electrical, rack integration: water & power | in progress | 10/13/06 |
| Commissioning | in progress | 10/13/06 |
| HBD | | |
| Electrical cables, rack integration: water & power | in progress | 10/13/06 |
| Gas Plumbing | in progress | 10/13/06 |
| East pre-survey | 10/12/06 | 10/16/06 |
| East mechanical installation (incl. final survey) | 10/16/06 | 10/17/06 |
| East cable trays | 10/17/06 | 10/18/06 |
| HBD preamp cooling system | 9/5/06 | 11/1/06 |
| HBD drying heater system | 9/5/06 | 10/6/06 |
| Commissioning | 9/25/06 | 11/31/06 |

Remaining Schedule (cont'd)

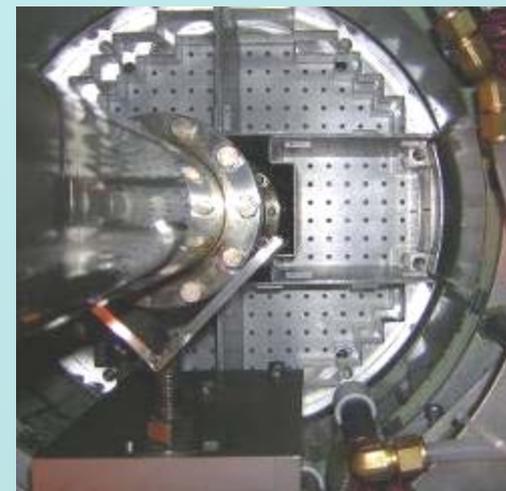
TECHNICAL SUPPORT 2006

| | Start | Complete |
|---|-------------|----------|
| MPC North | | |
| Mechanical installation | 9/13/06 | 10/13/06 |
| Electrical, modify/upgrade rack | 9/25/06 | 10/13/06 |
| Commissioning | 9/29/06 | 10/31/06 |
| PC HV module and cable maintenance | 10/24/06 | 10/31/06 |
| TEC maintenance & Repairs | in progress | 10/13/06 |
| MuID survey | 10/20/06 | 10/27/06 |
| MuID commissioning | 11/22/06 | 11/29/06 |

MPC North

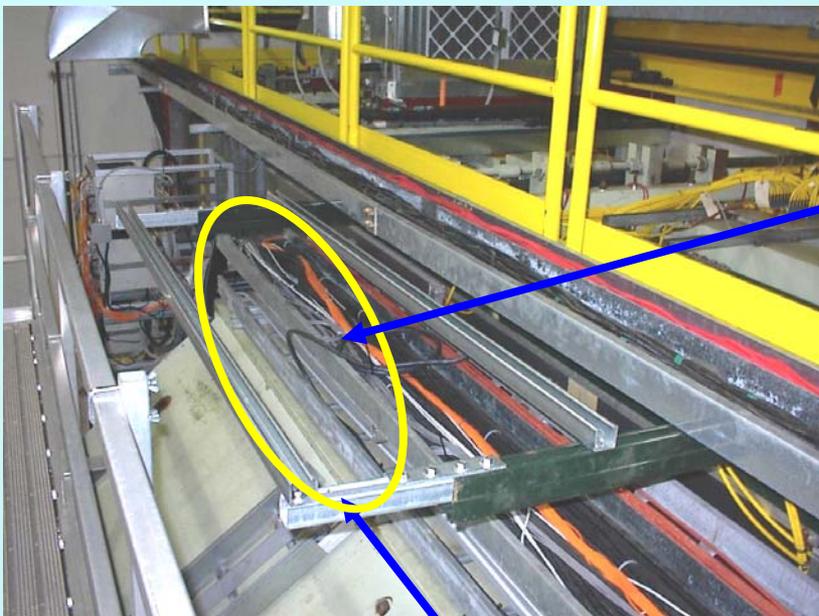
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- Mechanical installation in progress should be complete early next week
- Driver boards are ready
- Crate installation & cable routing next week
- Testing and commissioning



MPC North Cable Routing

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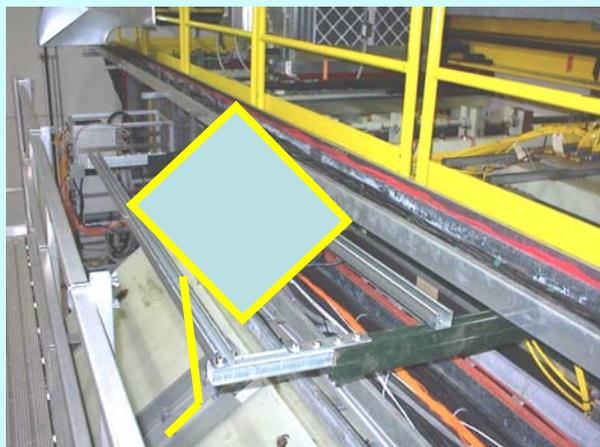
MPC North Crate

Unistrut Crate Support

MPC North Cable Routing

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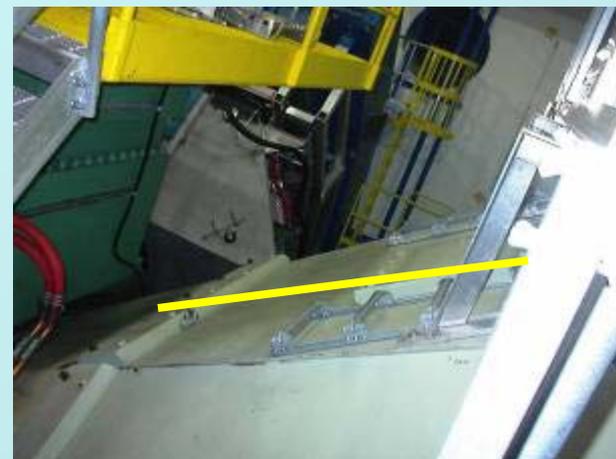
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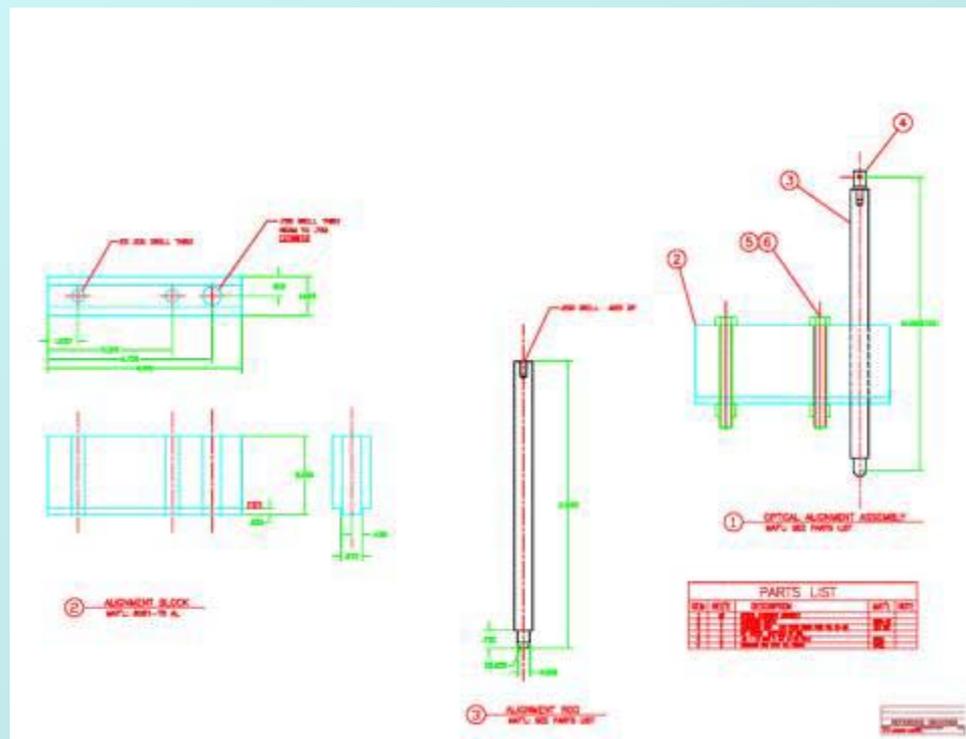
1. Crate supported on unistrut west of north crossover
2. Cables routed to tray under north crossover platform
3. Cables routed in tray mounted to MMN top lampshade
4. Cables run down from top of station 1 into Piston Cavity and connect to MPC driver boards

4



Subsystem Maintenance & Repairs

- PC HV module/cable maintenance later this month
- TEC upgrades on going
- MuID survey/commissioning next month



Infrastructure Work

CAD/RHIC PHENIX infrastructure related mechanical and electrical support

Roof leak repairs

?

MuID survey

?

EMCal Survey

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Remaining Schedule (cont'd)

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| | Start | Complete |
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| East carriage roll in & setup | | |
| Prepare IR & EC for move to IR/move cart, manlifts, collars | 23-Oct | 31-Oct |
| EC Roll in | 1-Nov | 2-Nov |
| Connect EC services | 3-Nov | 10-Nov |
| Install EC Ladder | 3-Nov | 10-Nov |
| Install EC rear access & ext. | 3-Nov | 10-Nov |
| Move MMS full North/Install beam pipe collar | 20-Nov | 22-Nov |
| Rebuild Rolling door | 27-Nov | 30-Nov |
| Close rolling door | 30-Nov | 30-Nov |
| RHIC Cooldown Begins | 1-Dec | 1-Dec |
| Pink Sheeting & Blue Sheeting | 4-Dec | 15-Dec |
| Start Flammable Gas Flow | 18-Dec | 18-Dec |
| All Up Commissioning | 18-Dec | 22-Dec |
| Beam in yellow ring | 25-Dec | 25-Dec |
| Beam in blue ring | 1-Jan | 1-Jan |
| RHIC beam conditioning | 1-Jan | 8-Dec |
| Shutdown Concluded/Start of Physics Run | 8-Jan | 8-Jan |

SEU Test

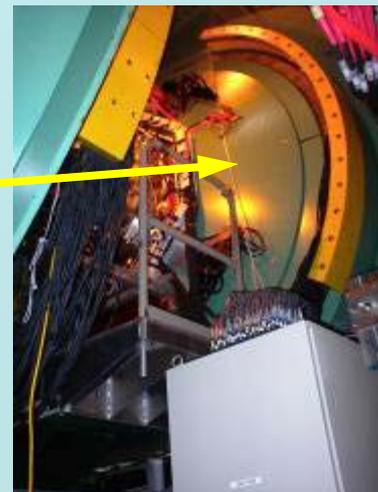
John Lajoie Iowa State

TESTING - REPORT + 2006



EIS to be prepared by ISU
Possible locations:

1. under lift table
(may interfere with other CM access)
2. Southwest pole face
(mechanical support needed)



Next Week

- MPC N installation complete
- HBD & RXNP rack wiring and electrical tests cont'd
- HBD signal rack chimney/ladder complete
- HBD presurvey
- HBD & TOF W mixing house gas control systems
- TEC repairs
- MPC N Cable path/trays complete
- Bridge utility electric, signal & fibers to control crate
- Finish TEC?

Bridge Signal Cable trays

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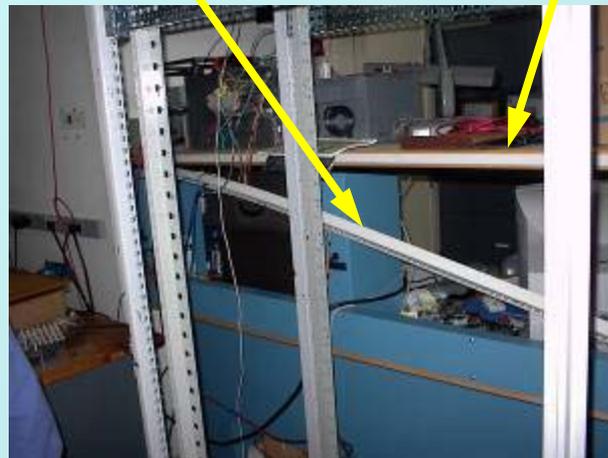
Tier I Inspection

No major faults recorded

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Rack room:
Plastic cable tray hanging, double sided tape failed



Electronics test area:
Rolling rack & bench are blocking
disconnect switch: Move rack &
bench & tape stay clear zone on
floor

Electronics test area:
Electrical box needs knockout plugged



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PHENIX manlifts need current inspection tags



Laser interlock key should be removed when not in service

Eyewash station has disgusting water



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Mixing house computer room:
Signal cable knockout needs
grommet



Gas pad restricted area sign is
faded. Replace with 2 new signs
at north and south ends of hut



Hacksaw power cable plug needs
strain relief

Other items noted:

1. PASS crash button southeast corner of IR protected by duct tape roll
2. Internet hubs in Rack room and trailer offices need security cage??
3. LN2 tank still needs stencilling

Where To Find PHENIX Technical Info

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Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

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