

# PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT 20-20



12/30/2010  
Don Lynch

This Week:

- Holidays and Snow storm
- Finish DC East/West maintenance and repairs
- Complete Pink/Blue/White sheets
- VTX Cooling and operational commissioning
- Install RPC1 Prototype Electrical and gas support
- Finish shield wall and roll-in
- Install Plug Door
- Ready for run 11
- Future upgrades support

## Next Week

Start Run 11

Continue support for new detector commissioning

Continuing mechanical, electrical and gas system support for Run 11

Plan for shutdown 2011

Future upgrades support

RPC1 Prototype, Installed

TECHNICAL SUPPORT NO-0



12/30/2010

TECHNICAL SUPPORT NO-0



Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Prep EC for move to IR	Done			Done
PHENIX	Remove manlifts, decking and 12 ton crane from IR to run storage	Done			Done
PHENIX	Move MuID collars to IR	Done			Done
PHENIX	Move EC to IR	Done			Done
VTX	Connect east 1/2 detector to NOVEC cooling	Done			Done
PHENIX	Re-attach cables, gas piping, water piping and fibers to CM and MMS	Done			Done

## Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Close access to MMN	Done			Done
RPC3S	RPC gas controllers final installation and RPC subsystem commissioning	Done			Done
PHENIX	Fold down EC platforms and install dumb waiter	Done			Done
PHENIX	Re-install EC cables, fibers, water and gas piping	Done			Done
PHENIX	Wire dumb waiter	Done			Done
PHENIX	Install MuID collars	Done			Done
PHENIX	DC repairs	12/30/2010	3 days	1 PHENIX tech, PHENIX scientists A/R	In Progress
PHENIX	Pink sheets, blue sheets, white sheets	12/30/2010	2 weeks	2 PHENIX techs, PHENIX scientists A/R	In Progress
PHENIX	Chiller platform fire detection and suppression	12/30/2010	1 week	1 CAD plumbers, 1electrican	In Progress

## Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Assemble shield wall	12/30/2010	4 days	1 rigging crew	In Progress
PHENIX	Start flammable gas	1/4/2011	1 day	1 PHENIX tech	After shield wall in place
FoCal Proto	Design plan	12/30/2010	2 weeks	PHENIX ME	In Progress
FoCal Proto	Installation plan	12/30/2010	2 weeks	PHENIX ME	In Progress
PHENIX	Install plug door	12/30/2010	1 day	1 rigging crew	After shield wall built
PHENIX	Close shield wall	12/30/2010	1 day	3 PHENIX techs	After pink/blue/white sheets
PHENIX	Install safety interlocks	12/30/2010	1 day	CAD safety	After shield wall closed
PHENIX	Close out all 2010 shutdown WP's	12/30/2010	1 day	1 PHENIX ME	In Progress
RPC1&Abs Proto	Electronics & Gas Support Installation	12/30/2011	3 days	3 PHENIX techs	In Progress
PHENIX	End of shutdown party	1/7/2011	1 day	All of PHENIX	After shutdown completed

### Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
FoCal Proto	ESRC review	>1/1/2011???	2 weeks	PHENIX ME	Not Scheduled
FoCal Proto	Support structure design	>1/1/2011???	3 days	PHENIX ME, Designer	In progress
FoCal Proto	Support structure fabrication	>1/1/2011???	2 weeks	2 PHENIX techs, CS	After Design is complete
FoCal Proto	Electronics, cooling, gas support design	>1/1/2011???	3 days	PHENIX ME, Designer	In progress
FoCal Proto	Electronics, cooling, gas support fabrication	>1/1/2011???	1 week	2 phenix TECHS	In progress
FoCal Proto	Electronics, cooling, gas support installation	>1/1/2011???	3 DAYS	3 phenix TECHS	During run 11
FoCal Proto	Support structure installation	>1/1/2011???	2 DAYS	3 phenix TECHS	During run 11
PHENIX	Design CM alignment stops	postponed			For 2011 shutdown
PHENIX	Fabricate CM alignment stops	postponed			For 2011 shutdown

# Looking Ahead to the 2011 Shutdown

- Run 11 Ends 6/30/2010
- Shutdown Standard Tasks (Open wall, disassemble wall, Remove MuID Collars, Move EC to AH, etc. 7/21/2010
- Disassemble VTX services 8/1/2010
- Remove VTX and transport to Chemistry Lab 8/15/2010
- BBC North maintenance 8/31/2010
- MuTr North Station 1 work 9/15/2010
- VTX maintenance and integration of FVTX onto VTX support structure 9/15/2010
- Install VTX&FVTX 9/30/2010
- Undefined detector subsystem maintenance and repairs 10/7/2010
- RPC1 and Absorber upgrades 10/7/2010
- Roll in EC 10/7/2010
- VTX and FVTX Services and commissioning 10/30/2010
- Prep for run 12 10/31/2010
- Run 12 cooldown 11/1/2010

# 2010 Building Maintenance Issues

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- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall and over door between control room and elect. ass'y room.
- General maintenance for Trailer Offices (in progress)
- Roof leaks in laser room and IR (southeast corner)
- Flooding in AH/ Driveway heaving [Lake PHENIX]
- New HVAC in Control Room and Conference Room
- New projector for conference room



12/30/2010

### PHENIX Procedure Review Current Status:

148 Procedures Identified

85 Made Inactive (not currently in use, will require revision to re- activate if and when necessary, available for reference purposes)

9 CAD procedures relevant to PHENIX, all are available and available on the CAD web site

42 Procedures in Progress (1 of these soon needs updating)

11 Proposed/Draft Procedures (never previously formalized) (3 are ready for review)

**Nothing New This Week**

Web retrieval of latest procedures now available from PHENIX Internal:

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_procedures.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm)

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1. Annual PHENIX Safety review: Action items:
  - Assure the new VTX detector DCM2 boards are fused **Done**
  - Review to assure all Weiner power supplies are NRTL equivalent compliant and affix respective labels (Giannotti Dec 20, 2010)
  - Provide the new flammable gases leak rates (Pisani, Dec 20, 2010)
  - Provide the gas usage quantities (Pisani Dec 20, 2010)
  - Carry out the pink sheeting of all racks. **Done**
  - Carry out the Blue Sheeting **In Progress**
  - Provide updated sweep procedures (Sampson Dec 20, 20)
  - Carry out operational tests of the VTX cooling systems **Done**
  - Provide documentation of the heating blanket and electrical connections reviewed by BNL fire engineering (Pisani Dec 24, 2010)

General:

  - Update the PHENIX ECR. (Craner, Dec 24, 2010)
  - Update the PHENIX work plan **Done**
  - Carry out a magnetic safety review **In Progress**
  - A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi / Etkin Dec 24, 2010)
  - Update the documented work procedures. **Done**
  - Establish trained PHENIX watch shifts. **Done**
  - Update the PHENIX emergency procedure (Makdisi Dec 24, 2010)
2. Focal Prototype Review: Not enough info yet. Design and technical support are ongoing
3. BNL Standards for Ethics - Required Training Due by 12/31

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- 4. Updated training report sent out. Mostly up-to-date. Check to see where you stand
- 5. ODH1 Training: Medical clearance for non BNL personnel: Use the same medical form as previous years. BNL personnel should have ODH1 on their Job assessments to provide automatic medical screening during BNL medical exams. BNL personnel who opt out of BNL periodic medical exams can also use the forms.

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

