

PHENIX WEEKLY PLANNING

TECHNICAL SUPPORT NO. 1



No Planning Meeting This week in Observance of Thanksgiving. Next PHENIX Weekly Planning Meeting: December 1, 2011

11/24/2011
Don Lynch

This Week

- Continue RPC1 N commissioning
- Continue MuTr station 3 North Clamp-on re-capacitors in MMN
- Continue MuTr station 3 South Clamp-on re-capacitors in MMS
- Continue FVTX/VTX QA testing
- Begin VTX/FVTX cabling & fiber installation
- DC West Repairs
- Continue RPC1 South installation
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade & repairs, and R134A shed
- Thanksgiving and Black Friday: Lab Holidays - no work 11/24-11/25

Next Week

- Continue RPC1 N commissioning, Begin RPC1 S commissioning
- Continue MuTr station 3 North Clamp-on re-capacitors in MMN
- Continue MuTr station 3 South Clamp-on re-capacitors in MMS
- Final FVTX/VTX integration, alignment and survey
- FVTX/VTX final QA tests in Chemistry
- FVTX/VTX internal thermocouple wiring to internal terminal block
- FVTX rack assembly complete
- Continue VTX/FVTX cabling & fiber installation
- Complete DC West Repairs
- MPC South troubleshooting
- BBC South installation
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade & repairs, and R134A shed
- Move VTX/FVTX West to 1008
- Begin VTX/FVTX Installation

TECHNICAL SUPPORT

- Remaining Work Permits needed: End of Shutdown WP 11/23
- CM alignment stops Design in progress
- Reinstall BBC South 11/30
- MPC S troubleshooting 11/30
- Upgrade AH crane **After 1/17/2012**
- DC1 East/West troubleshooting as required in progress to 11/30
- RPC3 Shielding in progress
- RPC Hodoscope Mech Installation Done
- Prep for EC roll in, reinstall MMS lampshade 11/28-12/9
- BP Survey (initial survey done, next after CM moved north, final after VTX/FVTX installed 10/17-12/12
- Roll in EC 12/12-12/16
- Prep IR for run 12/12-12/16
- IR run prep, Pink/Blue/White sheets 12/12-12/23
- New and upgraded full detector commissioning 9/15-1/16/2012
- Run 12 cooldown 1/17/2012

VTX/FVTX Tasks

2011 Shutdown

TECHNICAL SUPPORT 2011

- FVTX/VTX Chiller leak/contamination improvements Done
- FVTX west assembly and QA tests Done
- FVTX west pre-survey Done
- VTX pixel/strip pixel repairs Done
- VTX west re-assembly & QA tests Done
- FVTX east assembly and QA tests Done
- FVTX west integration with VTX west Done
- Move FVTX east to Chem lab Done
- FVTX east pre-survey Done
- VTX east reassembly and QA tests Done
- FVTX east integration with VTX east Done
- FVTX/VTX east half survey 11/28
- FVTX/VTX west half survey 11/29
- FVTX/VTX complete alignment survey in Chem. Lab 11/28-29
- FVTX racks ready 11/30
- Install FVTX racks on bridge 11/30
- Install FVTX fibers from rack room thru AH/sill to CM 11/30
- Final FVTX/VTX QA tests and thermocouple wiring 11/30
- Move west FVTX+VTX half to 1008 12/1
- Install FVTX/VTX west detectors (mechanical) 12/1
- Survey FVTX/VTX west detectors (mechanical) 12/2
- FVTX/VTX west cable routing, plumbing, QA tests 12/6
- Move east FVTX+VTX half to 1008 12/5
- Install FVTX/VTX east detectors (mechanical) 12/6
- Survey FVTX/VTX east detectors (mechanical) 12/7
- FVTX/VTX east cable routing, plumbing, QA tests 12/9
- FVTX/VTX final electrical/fiber/plumbing/monitoring installation 12/16

TECHNICAL SUPPORT NOTES

MuTr Tasks

- Clean/install new parts and upgrades (MuTr (3 weeks, At RPC Factory) Done
- Re-install chambers and FEE plates (1 week) Done
- Re-install north section of bridge Done
- Re-cable, re-hose and test (3 weeks) Done
- Move CM north Done
- Station 2 North (south side from station 1) new terminators and modify dry air distribution headers Done
- Station 2 North (north side) new terminators and modify dry air distribution headers Done
- Station 2 South (south side) new terminators and modify dry air distribution headers Done

MuTr North & South Station 3 Re-cap clamps

- Install work platforms (north and south for capacitor clamp installation to lower octants of station 3) Done
- Install new capacitor clamps in lower octants, Including dry air headers (In Progress) 7/25-12/31
- Dry air manifolding to Cap clamp headers 11/21-12/31
- Re-install MMS east vertical lampshade 11/28-12/9

RPC Tasks

TECHNICAL SUPPORT NOTES

- Install and test RPC1 North including all cables and plumbing Done
- Build 1 new rack, upgrade existing RPC1 prototype rack and install on Bridge Done
- Move CM north to run position Done
- Install scaffolding in station 1 south Done
- Modify BBCS cable routing Done
- Install RPC1 S Done
- Remove all scaffolding and hanging platforms 12/5
- RPC1 north and south commissioning In progress
- RPC3 HV Distribution modifications, gas distribution modifications, PS calibration HV and services testing In progress-12/5

TECHNICAL SUPPORT NOV-11

- RPC1
 - HV Cables
 - Signal cables
 - LV cables
 - Racks
 - Assembly
 - Install on bridge
- RPC3 additional HV boxes
- FVTX
 - Cable Testing in place
 - Clock Distribution (a new function)
 - Bias cables
 - LV cables
 - Fiber
 - Mapper boards
 - CMT3 and CMT4 FVTX racks
 - Assembly
 - Install on bridge
- VTX Modify thermocouple connections
- PC Board Designs
 - PbSc terminator board production
 - New LV Dist front panels
 - GL1 6X1 Multiplexer assemblies
 - New MPC junction board
 - Dual SVX board for E. Kistenev
- West carriage ADAM system performance upgrade
- LeCroy HV control retrofit testing
- MPC new racks

Installation in progress (North done, south 11/23)
Installation in progress (North done, south 11/23)
Installation in progress (North done, south 11/23)

Done
Done
Installed in rack

Sal, Steve, Eric
Sal will build a small plastic 1 to 4 LV box to power clock dist boards
All FVTX Cables are here
 "
 "
Installed

First rack is done, second rack 11/18 11/23
ready for installation; programming in progress

Done
LV Dist Modules are complete
Boards due next week
In assembly phase
Andrei S. to take over this project
Approx. 1/3 of WC is now on Modbus server
Mazsi is here this week testing HV control upgrade
In progress

TECHNICAL SUPPORT NOV

- Replace MuTr flowmeters (north and south) north done south by - 12/31
- Replace tygon lines (80 line) from the cooling manifolds to the detector with 1/4" ID teflon tubing.
- Insulate whatever Big Wheel chiller lines in the IR that we can get to to reduce sweating in the IR. Lines in the assembly area are done
- Build a system to clean the Novec during the run.
- Design a way to operate the Pixel at 10C without impacting the other systems. Split off/ new chiller/ conditioning cooling lines.
- Replace all cooling system RTD transmitters (frank has parts).
- Upgrade Mutr, MuID and DC/PC computers in the gas house to run windows7 (by DEC15th)
- RPC station 1 gas panels: One built and installed. Second partially build waiting for Dave to return should be finished by end of November. Remaining instrumentation and wiring will follow after the last panel.(dec 31).
- RPC Station 1 supply lines and exhaust (connecting to existing lines).
- Plumbing new supply for R134A, lines should have heat tape and insulation on exterior run. In progress
- MuID panel circulation. Class one div 2 fans.
- Dry air for Mutr HV work.
- Dry air filters to be replaced before run starts.

Where To Find PHENIX Engineering Info

Happy Thanksgiving



No meeting this week. Enjoy the long weekend, plenty rest up for the final month of the 2011 Shutdown.



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

