DT Production and Installation Schedule

CMS week, CERN December 7th 2004

> A. Benvenuti INFN Bologna

BMU Installation (YB+1)

Issues:

- Chimney chambers: 1 MB3, 2MB4/4 still in production. Priority to MB3 should be ready not later than mid February. MB4/4 can be installed with MB4To.
- MB4To: schedule for 6 chambers (YB+2) at ISR needed to setup alignment period (to be defined with Gyorgy).
- Minicrate production: check effective rate by end of January. If needed divert YB2+ MC for YB+1 installation. Only chambers with MC will be installed.
- Install MB1 rails, refurbish screw holes for cradle support posts, drill new hole(s), attach railings, support plates....





YB+1 Installation Logistics:

- Access trough the main entrance is needed to unload the transport frame and chamber staging
- This requires shifting/closing the EndCap(s) and moving YB+2 near/over HE. Hence interference with ME, HE and YB+2 work (MC installation, commissioning, cabling...)
- Scaffolding required on YB+1 HV side
- YB+1 and YB+2 must be moved ~1m to install MB1 supports

YB+2 Completion and YB+1 Installation

Optimized Scenario:

- Complete ancillary work in YB+2 (z-stops holes, supports...)
- Install MC in YB+2,
- Connectorise MC LV and PADC to LV support plate, HV Jbxs.
- Displace YB+2 ~1m, begin commissioning
- Mount MB1 supports on YB+1 and refurbish screw holes
- Displace YB+2 and EndCaps
- Install YB+1 including MB4To (back to Installation Review scenario)
- Commission YB+1(=> end of June), Cable Test YB+2 S10
- Install YB+0,
- move back YB+2, install MB4To + commissioning

MC production vs Installation Schedule



Installation Hardware

- Assemble MB4 cradle, can be used also for MB3
- Test chamber rotator on L3 scissor lift for installation under the cryostat
- Order additional cradle supports: 3 pieces x 2 + 2 pieces x 2 => 11 700Eu

 Additional chamber supports for storage of 12 ready to install DT+ RPC: 12 pieces x 2 => 21 450Eu





Summary

Installation in YB+1 requires moving YB+2 and EndCaps to clear access for tooling, transport frame storage and staging area.Conflicts are possible with YB+2 commissioning and EMU, EH work.

Changing installation wheel is going to be time consuming. We must produce a coherent scenario for commissioning, installation and cabling of several wheels

This requires a realistic schedule for MB4To deliveries

Completion of ancillary work on the wheels is becoming critical also for YB-1 and YB-2 (MB1 supports..)

➢ 87 chambers should be installed in SX5 after the magnet test. These chambers should be ready to install (apart for coupling to RPC) by then.