

CSC HV system MTCC preparation status

Alex Madorsky, Petr Levchenko
University of Florida



HV system MTCC preparation

Need to have for MTCC:

→ 3 Distribution racks (on disks)

- YE+1: 12 small chambers (6 boards + patch panel)
- YE+2: 9 small + 9 large chambers (14 boards + patch panel)
- YE+3: 3 small chambers (2 boards + patch panel)

→ 1 Master rack (Green Barrack)

- Master patch panel
- 3 Master Crates
- Wiener PL512 LV power supply
- Master LV patch panel
- 3 Primary HV power supplies
- Primary HVPS control module
- Control computer
- Control patch panel

→ Cables from Green Barrack to Disks

- 3 HV cables
- 3 control cables
- 3 LV cables



HV system MTCC preparation

Installed Feb - May '06 or earlier:

→ 2 Distribution racks (on disks)

□ **YE+1: 12 small chambers**

- standalone setup (no cables from control room)
- 6 boards + patch panel

□ **YE+2: 6 small + 12 large chambers**

- **FIRST permanent setup**, with cables from control room, **works fine**
- 15 boards + patch panel



HV system MTCC preparation

Installed in Feb - May '06:

- 1 Master rack (Green Barrack)**
 - Master patch panel
 - 1 Master Crate
 - Wiener PL512 LV power supply
 - Master LV patch panel
 - 1 Primary HV power supply
 - Primary HVPS control module
 - Control computer
 - Control patch panel



HV system MTCC preparation

Installed in Feb - May '06:

→ Cables from Green Barrack to Disks

□ All cables for YE+2 ~140 m

- HV
- LV
- Control
- Connected to Distribution rack and working

□ All cables for YE+1 and YE+3

- HV
- LV
- Control
- Will be connected to Distribution racks when CMS is "closed"



HV system MTCC preparation

To do when CMS is closed (disks shifted together)

→YE+1

- Install patch panel
- Move Primary PS, Master crate to control room
- Remove computer

→YE+2

- Re-route cables from control room to Distr Rack

→YE+3

- Install one Distribution crate, patch panel
- Attach cables from control room to Distr Rack



HV system MTCC preparation

Summary - status today:

- YE+1 – HV on
 - non-permanent setup
 - Conversion to permanent is quick
- YE+2 – HV on
 - permanent setup
- YE+3 – HV off
 - Crate installation to be done
 - Should take 2 days, including tests

Need to know exact CMS closing date ASAP to plan trips