

EE 2005/2006

Dave Cockerill 18.4.2005

Items shipped from RAL to CERN, March 2005:

- Aluminium mechanics for 400 SCs
- 500 VPTs
- 1 5x5 SC with ribbon umbilical
- 1 5x5 SC with coax umbilical

Forthcoming tasks Q2/3, 2005

- 50 (of 52) HV cable sets tested/repaired - installation at point 5
- Final OPAL frame mods, for horizontal/vertical/turning
- Final design for OPAL frame interface to installation table
- Receipt, dry mount, first environmental screen
- Receipt, acceptance tests, 280 5x5 alveolars
- VPTs put under dry nitrogen

Forthcoming tasks Q2/3/4, 2005

- Receipt/inspection of backplates 3&4 and
- Receipt/inspection of 300 positional spacers for BPs 3&4
- Receipt/inspection, 4 new ring flanges
- Receipt/inspection 72 partial alveolars and partial alveolar mechanics
- Layout and related logistics for full assembly of EE at CERN
- CRISTAL database upgrades for SC and Dee assembly
- Modified VPT to crystal gluing jig certified in bldg 27
- VPT 'go'/'no go' test setup
- 15-20 'bare' SCs assembled in bldg 27
- Adaptation of SC assembly jigs for partial SCs
- 'Dee4' prepared (BP cooling etc) for electronics tests
- 'Dee4' equipped with SACLAY monitoring fibres
- 4 SCs mounted on 'Dee4' with ECAL readout
- Proposals for 'Dee4' beam test in Nov 2006 with 15-20 SCs
- **Possible EE electronics review, Nov 2005**

2006 Q1/Q2 - Purchase final design of HV filter cards

- **Purchase final design of Umbilical readout**
- Lay optic fibre/HV/slow control cables - off detector
- Dry assembly of the moderator/mechatronics on a full Dee
- Lay out HV and LV service lines
- Measure lengths/routings, prepare service looms for all 4 Dees
- Continue to a total of 15-20SCs on 'Dee4'?

Items acquired for EE electronics tests (as of 18.4.2005)

- 1 6U VME crate for Rose10 readout
- 1 VME crate P/S
- 1 VME crate processor
- 1 scope
- 1 LV power supply for VFE
- HV supply
- Cooler
- Cooling bars and motherboards
- 7 EE VFE cards (due at CERN during ECAL week)

Remaining items needed for electronics tests

- 1 FE board (take from E0' 2004 electronics?)
- 1 clock/control system
- Fibre optic from FE to Rose10
- Rose10

Current Milestone list

3.0.2 ECAL Installation

EG-1028	ES (+HE+EE) cabling installed on endcaps	Level 1	30-Apr-05
	EE+ installed, tested, debugged	Level 1	15-Mar-08
	EE- installed, tested, debugged	Level 1	15-Mar-08

3.2.0 ECAL Endcap, General

*	EE-2076	Engineering Design Review (Endcap EDR3: cooling & integration)	Level 2	30-Sep-05
		EE cooling plant installed and commissioned	Level 2	30-Sep-06

3.2.2 ECAL Endcap, Electronics

*	EE-2083	EE Trigger tower & Integration review	Level 3	30-Jun-05
	EE-2085	EE and ES Cables delivered, tested and ready for installation	Level 2	30-Mar-05
*	EE-2086	Electronic & Electrical System Review (ESR) EE	Level 2	30-Sep-05
	EE-1020	First production endcap readout card ready (off detector)	Level 3	31-Oct-05
*	EE-2092	ESR (Integration Progress) for EE off-detector electronics	Level 3	30-Sep-05

* possibly to be merged into a single 2 day review in Nov 05.