

Project Monitor Form

Project: CMS FED Date: Friday 23 November-2007	PMF number: 69 Sheet: 1 of 2
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Project Implementation phase.

FED Production

FED Production Boards Status

Status	Count
Total Manufactured	500
Good boards at CERN	490
Good boards at RAL	1
At RAL Under Investigation	0
At Manufacturer For repair	0
Unfixable boards	1
At RAL Waiting for OptoRx	8

Full details in Production [spreadsheet](#).

FEDs

A further 7 production FEDs were repaired, retested and sent to CERN.

No further boards have been returned to RAL.

A few empty ORx trays were returned to CERN for final ORx batch.

The Test Rigs at Exception were recovered on Oct 3rd.
 All the equipment was recovered in working order.
 The remaining test result files have now been archived.

2 Final LHC crates (9 fan tray) with PS were returned to CERN.

The 2 Prototype crates are kept in the RAL Test Rig.

The water cooling for the rack in the new lab in R12 is now operational.

Staff Effort

Ivan has assisted greatly over the past several months in the FED commissioning and also in the general installation and cabling of the tracker system.

However the level of support required for FED maintenance is now lower than expected owing to the generally smooth operation and reliability of the boards to date.

As a result Ivan has been seconded to work on a project for the Space Science Department.

He will continue to be available for the support of the FED Test Rig and any necessary board repairs. But he will not

CERN Installation and Commissioning :

Latest News:

Tracker expected to be moved on 10th December and lowered a day or two afterwards. The hope is that it will be inserted before Christmas. TK connection and checkout expected to start towards the end of January ...

Connecting the tracker fibres to the FEDs in USC began in October.



Some of the Tracker USC Racks on October 18th

DAQ commissioning tests are proceeding well. No major problems reported for FEDs.

Firmware and Software

Matt Noy at Imperial has begun investigating developing alternative FE FPGA algorithms to better deal with the unexpected noise effects observed during the Silicon Tracker module testing.

Saeed has made further improvements to the BE and Delay designs.

sLHC

Report on lessons learnt from FED project presented at the CMS Tracker Upgrade meeting in September.

A final draft of the CMS Upgrade Work Package was submitted to the PPRP in October. The review of the bid will take place at the PPRP meeting in Glasgow on Dec 4th. There will be a follow up visit by the PPRP to discuss the CMS upgrade at Imperial in January