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PRINCIPAL LHCC DELIBERATIONS

26TH MEETING OF THE ATLAS RESOURCES REVIEW BOARD

15 APRIL 2008

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GENERAL

This document summarises the principal LHCC deliberations concerning ATLAS at the Committee's sessions in November 2007 and February 2008.

The LHCC notes that the major ATLAS detector parts, except for the Pixel Detector, are close to completing their commissioning and the preparations for the first LHC run in 2008 are well advanced. The Committee considers that it is realistic to expect ATLAS to have an initial working detector for the start of LHC operation in 2008.

CONCERNS FROM THE PREVIOUS ATLAS RESOURCES REVIEW BOARD

SUB-SYSTEM	CONCERN	STATUS
Muon System	The delivery of the CAEN high voltage power supplies for the Muon System remains critical as their availability for the full commissioning of the detector remains tight.	The Thin Gap Chamber (TGC) power supply installation was delayed due to a power supply production failure rate of about 10% and the installation on the TGCs is now in progress and expected to be on time.

EXPERIMENT SUB-SYSTEMS

MAGNETS

An incident during the first End-Cap Toroid (ECT) test in November 2007 and the delay in the Pixel Detector commissioning, have resulted in the commissioning plans for the complete ATLAS toroid magnet system in nominal conditions to be reconsidered and are now postponed to start in May 2008. The individual ECT tests have been partially fulfilled – the ECT-A has been ramped up to 50% of its nominal current, while the ECT-C has reached 75%. All the magnets are working well and there are no concerns except that the final global test may be shortened by the start of LHC operations with first beam in 2008.

INNER DETECTOR

Good progress was reported on the Semiconductor Tracker (SCT) and Transition Radiation Tracker (TRT), with the commissioning advancing well and no major concerns having been identified. The sign-off of the Pixel Detector is the most critical issue and close exchange of information with the LHC machine should continue in order that ATLAS can take the necessary decisions concerning the Pixel Detector check-out.

CALORIMETERS

Commissioning of the calorimeters is progressing well and the present schedule to complete the commissioning is reasonable but tight. The outer exhaust pipe of the LAr Calorimeter damaged by the movement of the ECT has been repaired *in situ*.

MUON SYSTEM

Installation and commissioning of the Muon System is advancing well. The dark current observed on the Resistive Plate Chambers (RPCs) with the gas recirculation system remains a concern and is under investigation.

TRIGGER AND DAQ

Good progress was reported on the Trigger and DAQ, with no major concerns having been identified.

COMPUTING

Good progress was reported on the Computing, with no major concerns having been identified.