

# PRINCIPAL LHCC DELIBERATIONS

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1<sup>ST</sup> MEETING OF THE TOTEM RESOURCES REVIEW BOARD

23 OCTOBER 2007

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SCIENTIFIC SECRETARY, LHCC

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## **GENERAL**

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This document summarises the principal LHCC deliberations concerning TOTEM at the Committee's sessions in May, July and September 2007.

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## **EXPERIMENT SUB-SYSTEMS**

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### **T1 AND T2 TELESCOPES**

Production of the T1 Cathode Strip Chambers (CSCs) is well underway, and production of the Gas Electron Multiplier (GEM) detectors for the T2 telescope is complete. Integration of the T1 and T2 telescopes in the forward region of the CMS detector is being well-prepared jointly by the technical co-ordination of TOTEM and CMS. The final installation of the telescopes will be reviewed jointly by TOTEM and CMS in January 2008.

### **ROMAN POTS DETECTORS**

All eight Roman Pot stations have been assembled and their installation in the LHC tunnel is complete. The first Roman Pot silicon detector assembly will be ready for testing at the SPS in the latter part of 2007. Some detectors will only be mounted after the LHC beam commissioning phase in order to minimize the risk of damage from any accidental beam loss. Extensive tests on the evaporative cooling system have been completed successfully.

### **READ-OUT ELECTRONICS**

The final versions of the front-end electronics for all TOTEM detectors are presently being tested at the SPS. The availability of the complete set of front-end electronics from the series production is on the critical path and TOTEM should ensure that this does not result in delays in the overall TOTEM schedule.