

**ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH**

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Geneva, 21st October 2008

Letter of Intent

During last five years the teams of specialists from the Henryk Niewodniczański Institute of Nuclear Physics of the Polish Academy of Sciences (HNINP) have provided a continuous support to the installation, testing and commissioning of the Large Hadron Collider (LHC), and in particular to the inspection of the interconnections and electrical circuits of the LHC superconducting magnets. This support and the excellent quality of work of the HNINP teams are highly appreciated by CERN.

During the operation and future upgrade of the Large Hadron Collider, CERN will also need to be temporarily supported by qualified physicists, engineers and technicians forming a team of the "Quality Assurance Support during LHC Shutdowns", hereafter referred to as the Quality Assurance Support Team. This activity is of fundamental importance for the successful operation of the LHC, given the complexity of the accelerator and the very high reliability required. The possibility of making use of the competencies and experience of the HNINP teams, gained during the commissioning stage of the LHC, is an important asset for the operational phase of the LHC. CERN invites therefore the Henryk Niewodniczański Institute of Nuclear Physics to consider the possibility of constituting the relevant Quality Assurance Support Team for the period of up to five years, starting from the winter shutdown 2008/2009, and to begin the preparation work in cooperation with the AT Department of CERN.

CERN will need the Quality Assurance Support Team to be composed of two crews, the first one to carry out the inspection of the magnet interconnections and the second one to test electrical magnet circuits and protection systems, each crew with up to four specialists.

The activity of the Quality Assurance Support Team is planned to take place during winter shutdowns of the LHC, which are typically scheduled between mid-December and end of March. HNINP shall adapt the resources of the Team to the evolution of the schedules of the winter shutdowns with a notice period of few months. The engineer or physicist in each crew shall act as the crew leader. One engineer or physicist shall act as a team leader and will be a part of the test crews. He/she shall liaise with the CERN's Group responsible for these activities and manage and supervise the Team.

The collaboration between CERN and HNINP concerning the Quality Assurance Support Team will be governed by a Collaboration Agreement to be signed by both Parties, as well as by individual contracts between CERN and each member of the Team.

For CERN

Dr. Lyndon Evans



For HNINP Cracow

Prof. Marek Jeżabek

