



SLHC-PP

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magnet prototype**

Lead Beneficiary: **CERN**

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The Preparatory Phase of the Large Hadron Collider upgrade (SLHC-PP) is a project co-funded by the European Commission in its 7th Framework Programme under the Grant Agreement n° 212114. SLHC-PP began in April 2008 and will run for 3 years.

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1. EXECUTIVE SUMMARY

The comprehensive report on Deliverable 6.3.1 shows the progress on the development and manufacture of two superconducting corrector magnets (a sextupole and an octupole) at CIEMAT. In parallel, work at CERN has aimed at the design and manufacture of orbit corrector magnets with Rutherford type superconducting cable. All tooling and magnet components have been procured from European Industry. First assembly tests have been made successfully. Moreover, the design of a skew quadrupole magnet has been completed.

A new insert for the vertical test cryostat at CIEMAT is being fabricated, and a new data acquisition system has been developed. Cold test of the sextupole magnet will be done in the first half of 2011. The refurbishment of the CERN cold test facilities will also be completed in due time.

Although the Milestone on the coldtest of the corrector magnet package has not been reached to date, CERN and its partners (CIEMAT, and STFC/Ral) are fully committed to complete the tasks defined within WP-6 of SLHC-PP by the end of 2011. This will not only make the best use of the investments but will also qualify the new techniques to cope with higher heat-load from particle debris in the insertion regions of the LHC.