

INTEGRATION OF CUSTOM SYSTEMS AND INDUSTRIAL SYSTEMS INTO THE LHC MAGNET TEST BENCHES

A. Rijllart, CERN

The LHC magnet test benches require control, data acquisition and measurement systems for the acceptance tests of the LHC dipole magnets. The data acquisition needs are two-fold: slow but continuous data logging during cool-down, warm-up and steady-state operation, and fast but short transient recording during quench tests. Such a data acquisition system has been successfully tendered and integrated into the test bench environment, which consists of systems built at CERN as well as other industrial systems. Aspects of integrating additional measurement systems and remote monitoring and control will be covered.