Fermilab

Fermi National Accelerator Laboratory
Technical Division
Batavia, IL 60510 U.S.A.

LHC Equipment Serial No:	HCLQXC_001-FL000004
Fermilab / Technical Division Serial No:	LQXC04
KEK Magnet Serial No:	MQXA14

Fermilab has received the above referenced cold mass from KEK, added pressure end domes and finished the cryo-assembly. The MQXA magnet has been previously certified by CERN as meeting the design, construction, weld inspection and pressure testing safety requirements as established between CERN and KEK.

The Fermilab LHC Safety Panel has reviewed the results of design, construction, weld inspection for the end domes, and pressure testing of the completed cryo-assembly. The results of this review according to Chapter 5031 of the Fermilab ES&H Manual have been included in the documentation file for this unit. The magnet meets all the specific safety requirements of magnet construction.

The magnet specifically meets the CERN/LHC – US/LHC MoU on accelerator mechanical safety, TIS-TE-MB-98-74, 14 December 1998. This certification documents the successful completion of step 12, the final US step of the MoU.

Fermilab project personnel have reviewed the results of construction, electrical integrity, survey, field quality, testing for the work completed by Fermilab. The construction and test records have been included in the documentation file for this unit.

The magnet meets all the specific requirements of magnet construction and performance. Any exceptions or repairs have been documented and resolved to the satisfaction of the CERN technical contact person.

It is the recommendation of Fermilab that the magnet is ready to ship to CERN.

Date: 9/27/05

Jim Kerby
Chair, FNAL Magnet Acceptance Committee

V Yarba for BK 9/27/05

Bob Kephart
Head, Technical Division