

MQXFAP2 Conductor & Coils Readiness Review

Goal & Charge

MQXFAP2 is the second prototype of the MQXFA magnets to be used in Q1 and Q3 for the High Luminosity LHC.

MQXFAP2 is the first prototype using coils with 4.2m magnetic length (QXFA). Five QXFA coils (#101/2/4/5/6) were fabricated for MQXFAP2. The baseline plan is to use coils #101/2/4/5 and to keep #106 as spare coil.

This is an internal review where L3s in charge of conductor and coil fabrication are going to present the data for coil acceptance.

The committee is requested to answer the following questions:

- Is the baseline plan (to use coils #101/2/4/5) for MQXFAP2 assembly and test fine?
- Are conductor and coils fabrication and QC data adequate for a thorough evaluation?
- Are there major non-conformities? If answer is yes, have they been adequately documented and processed?
- Do you have any other comment or recommendation regarding coil selection to assure successful MQXFAP2 assembly and test?

Committee

D. Cheng, G. Chlachidze (chair), J. Muratore.

Date and Time

December 7, 2017 starting at 8/10/11am (LBNL/FNAL/BNL)

Location/Connection

The review will be by video-mtg

Video-link by Zoom, info on the Indico page

Link to talks

<https://indico.fnal.gov/event/15843/>