



Technical Meeting on MQXFB07 Coils: Introduction

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[Technical meeting to review coils for MQXFB07 \(11 July 2024\) · Indico \(cern.ch\)](#)



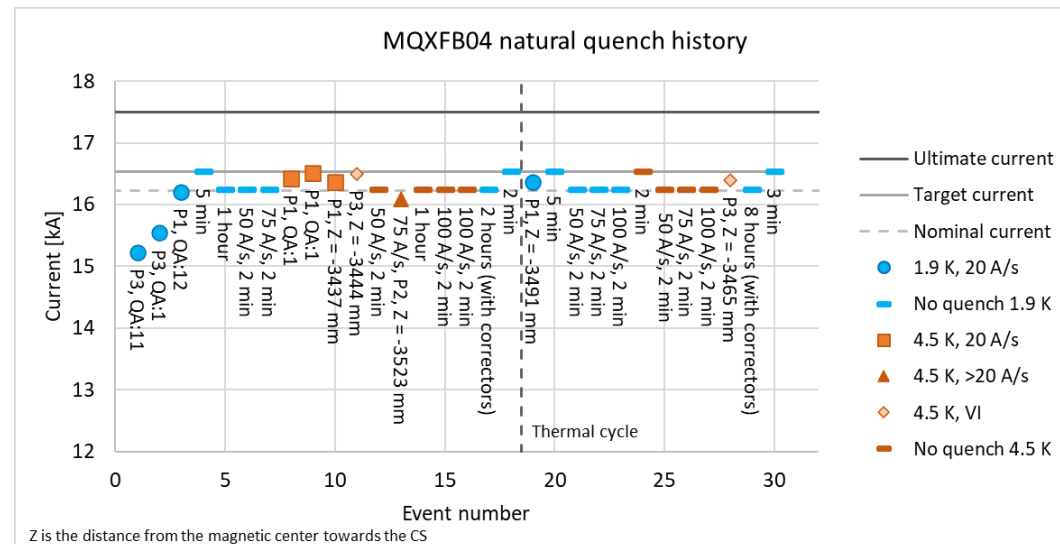
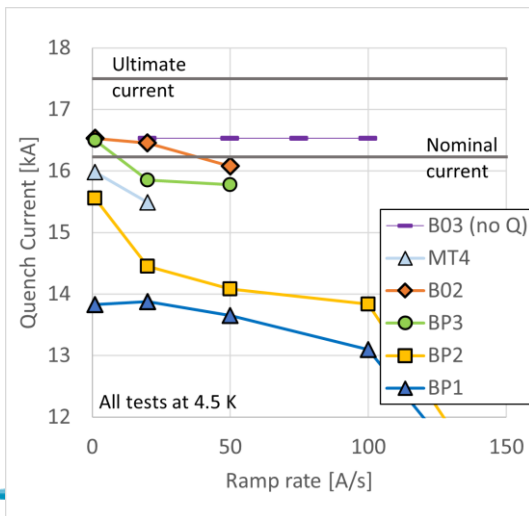
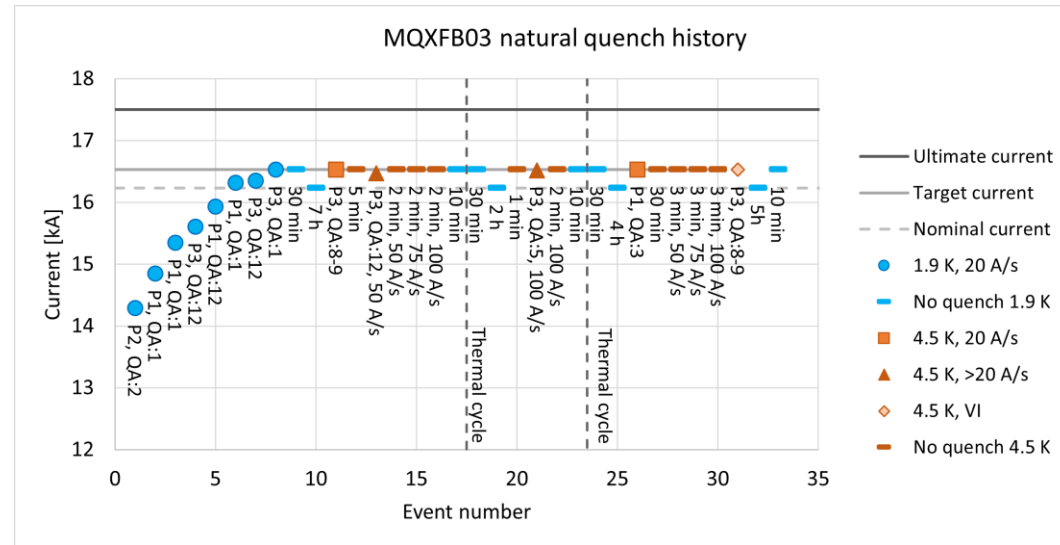
11/07/2024

Objective

- Summarize manufacturing data and non-conformities for the coils to be assembled in MQXFB07, built using the same procedures as MQXFB03/04/05/06 coils
- Agenda
 - Conductor and cable: J. Fleiter, S. Hopkins
 - Coil fabrication: N. Lusa
 - Coil ordering: E. Ravaioli and P. Matilde Quassolo

Introduction – MQXFB magnet performance

- MQXFB03 implement a series of features to improve the coils → **no signs of conductor limitation**
- MQXFB04 confirms the results
- Status of next magnets:
 - MQXFB05: cryostating ongoing, plan to test mid-august
 - MQXFB05: cold mass assembly ongoing, plan to test January 2025



Main documents – Acceptance criteria

Acceptance Criteria	
Conductor performance	EDMS 2268225
Heat treatment	EDMS 2333499
Impregnation	EDMS 2428078
Coil geometry	EDMS 2496377
Electrical tests	EDMS 2447487

- Also see:
 - MIP: [EDMS 1996152](#)
 - Flow Chart: [EDMS 1736688](#)

Main fabrication reports

MTF link (FUFs, NCR and all info)	CR138	CR145	CR146	CR147
Conductor performance	3012883	3101766	3132280	3132282
Cabling	2772486	3058659	2822508	2963109
Heat treatment	2977423	3073618	3088813	3103305
Coil geometry	3057190	3102082	3130007	3132192
Final electrical tests	3044255	3089514	3102951	3128588