

MPP

Main Ring Magnet Performance Panel Meeting

Agenda:

- 1) MPP Mandate. General information.
- 2) Main Tasks.
- 3) Discussion. Work organization
- 4) AOB.

MPP - Main Ring Magnet Performance Panel

- The MPP constitutes a first step towards a permanent body supporting LHC beam commissioning and operation for the performance of the main ring magnets, a key ingredient for the overall LHC performance.
- The MPP is expected to be the main actor for the commissioning of the main ring magnets.
- This panel is composed of experts from the Groups concerned.

MPP - Main Ring Magnet Performance Panel

Mandate

- Monitor, analyze and manage all aspects of magnet performance including cryogenics and vacuum
- Detect, diagnose, correct or mitigate problems which could occur in the magnets and the superconducting circuits including the electrical distribution feed boxes
- Record and track individual magnet performance in relation to their manufacturing, tests, commissioning and operation data
- Steer the development of the related data bases, analysis and diagnostic tools. Participate to the definition of the needs for analysis tools to be used during routine operation.

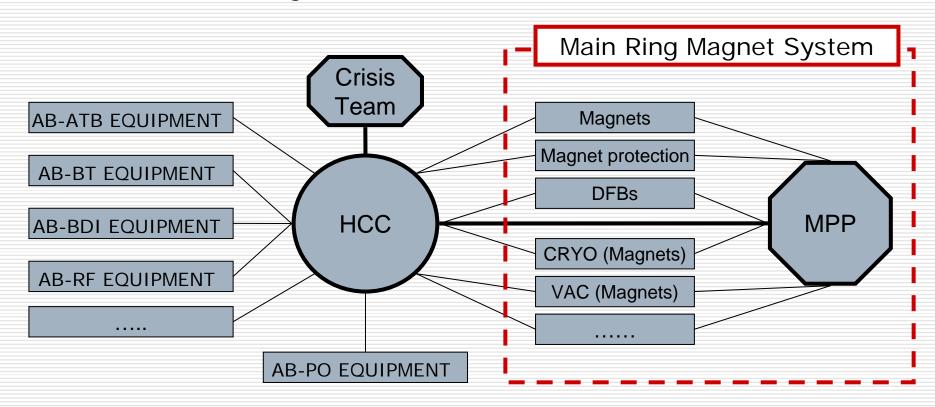
MPP Meeting 21/09/2006

MPP Responsibility During Hardware Commissioning

- □ The MPP is expected to actively contribute to the Hardware Commissioning effort by:
 - participating to the definition of the procedures,
 - analyzing the data gathered,
 - supplying all the information necessary and timely validating the continuation of the commissioning procedures
 - in case of failure, the MMP is expected to perform in-depth diagnostics to unblock the situation or escalate the problem via Hardware Commissioning Coordination

MPP Responsibility During Hardware Commissioning

- ☐ The MPP will integrate AT experts and their expertise to actively contribute to the Hardware Commissioning effort
- The MPP will be integrated into the existing Hardware Commissioning structure



MPP members

MEMBERS		Alternates	Ex-officio
Amalia Ballarino	AT-MEL		Philippe Lebrun
Davide Bozzini	AT-MEL		Karl Hubert Mess
Knud Dahlerup-Petersen	AT-MEL		Lucio Rossi
Reiner Denz	AT-MEL		Pierre Strubin
Mikko Karppinen	AT-MEL		Laurent Tavian
Glyn Kirby	AT-MEL		Louis Walckiers
Paolo Fessia	AT-MCS		Roberto Saban
Michele Modena	AT-MCS		
Vittorio Parma	AT-MCS	J-Ph. Tock	
David Richter	AT-MCS		
Davide Tommasini	AT-MCS		
Giorgio D'Angelo	AT-MTM		
Pierre Pugnat	AT-MTM		
Stephane Sanfilippo	AT-MTM		
Andrzej Siemko	AT-MTM		
Paul Cruikshank	AT-VAC	R. Veness	
Luigi Serio	AT-ACR	R. van Weelderen	
Felix Rodriguez Mateos	TS-HDC		

Main short and mid term tasks

- Tools for Hardware Commissioning
 - GPMA Global Post Mortem Analysis (Pierre)
 - MRMP DB Main Ring Magnet Performance DB
 - Hardware Commissioning Procedures (Felix)
 - Diagnostic Tools
 - MPP Communication Tools

MRMP DB

- Main Ring Magnet Performance Data Base (MRMP DB)
 - Must be defined, developed and implemented before the Hardware Commissioning start-up
 - Will use GPMA result files
 - Must be linked to the "old" SM18 result data DB (MRM DB) and MTF
 - MRMP DB will also be a tool to monitor the long term evolution of the hardware performance

Diagnostics

- In case of failures, adequate diagnostic tools will be necessary during the hardware commissioning and operation
 - Many equipment/systems already exists in AT Groups
 - Inventory of the available equipment is required
 - Analysis of the present diagnostic capacity vs. known (today) failure modes
- Test and diagnostic procedures

MPP Communication Tools

- MMP Web pages
- Distribution lists
 - at-project-MPP-members@cern.ch
 - at-project-MPP-info@cern.ch
- List and links to all relevant documentation
 - In particular to results and encountered problems during the hardware installation and quality control in the tunnel
- □ ...
- □ Glossary

Work Organization

- MMP will meet every two weeks
 - Preferred day/dates?
- Main work will be carried out within dedicated task force teams
 - Hardware Commissioning Procedures
 - GPMA
 - MRMP DB
 - Diagnostic Tools