Session Program

24–26 Feb 2009

LHC QPS Review Committee

Individual short presentations/discussions addressing panel questions

CERN

Wednesday 25 February

08:30

Individual short presentations/discussions addressing panel questions

Session | **Location:** CERN, 30/5-039

08:30–09:00 **Symmetric quench experience and planned solution (20’+10')**

Speaker
Reiner Denz

09:00–09:15
Are there any other superconducting busses not being monitored by a quench detection system: the diode area

Speaker
Michael Koratzinos

09:15–09:35
Are there any other superconducting busses not being monitored by a quench detection system: 13kA & 6kA & 600A

Speaker
Robert Henry Flora

09:40–09:55 **Mechanical details of the bypass diodes**

Speaker
Knud Dahlerup-Petersen

09:55–10:10 **How were the diodes tested prior to installation**

Speaker
Andrzej Siemko

10:10–10:30 **Stresses on diode joints**

Speaker
Knud Dahlerup-Petersen

10:30–10:50 **coffee break**

10:50–11:20
Effects of standard component failures as well as radiation damage on the operation of the QPS (fail safe or not). What design features make the system fail safe? Details on the detection circuits.

Speaker
Reiner Denz

11:20–11:40 **What limits the maximum negative di/dt for the magnet systems**

Speaker
Hugues Thiesen

11:40–12:10

Which experiences have been gained from the accident with respect to the expected behaviour of the existing QPS. Did everything react as designed? Did quenches propagate along the magnet chain due to transients and sudden current changes?

Speaker
Sandrine Le Naour

12:10–12:25

MI^2T limits for magnets, what are they and how where they developed. Time budgets for detection and energy extraction for the various magnet system.

Speaker
Andrzej Siemko

12:40–14:00 **lunch**

14:00–14:15 **Description of energy extraction components and design criteria**

Speaker
Knud Dahlerup-Petersen

14:15–14:30

How does electromagnetic noise (from environment and beam) affect the novel protection circuits for bus bar splices?

Speaker
Robert Henry Flora

14:30–14:45 **Reserve**

14:45–15:00

Procedures used and the resulting traveler associated with the failed busbar joint. Ultrasound tests of joints.

Speaker
Paolo Fessia

15:00–15:15 **Stresses on busbar joints.**

Speaker
Paolo Fessia

15:15–15:30

QPS commissioning plan. Quality assurance during the installation of the new quench detection systems.

Speaker
Fabio Formenti

15:30–15:50

Schedule foreseen for the completion of the new Enhanced QPS system

Speaker
Fabio Formenti

15:50–16:10

How does standard component failure effect the operation of the QPS? In particular, what will happen in case of a mains power loss? Does the system rely on the proper functioning of a UPS system? Is the redundancy system properly designed on all levels?

Speaker
Knud Dahlerup-Petersen

16:10–16:30 **coffee break**

16:30–17:00 **Reserve**

17:30