

# **LHC QPS Review Committee**

## **Report of Contributions**

Contribution ID: 6

Type: **not specified**

## Summary of the 34 event (30'+15')

*Tuesday, 24 February 2009 09:45 (30 minutes)*

**Presenter:** STRUBIN, Pierre

**Session Classification:** Summary talks

Contribution ID: 7

Type: **not specified**

## **How all the systems are working together (30' + 15') (Powering interlocks for the LHC)**

*Tuesday, 24 February 2009 09:00 (30 minutes)*

**Presenter:** ZERLAUTH, Markus

**Session Classification:** Summary talks

Contribution ID: 8

Type: **not specified**

## **Busbar joint stability (30'+15')**

*Tuesday, 24 February 2009 10:45 (30 minutes)*

**Presenter:** VERWEIJ, Arjan

**Session Classification:** Summary talks

Contribution ID: 9

Type: **not specified**

## **Busbar quench protection enhancement (20' + 10')**

*Tuesday, 24 February 2009 11:30 (20 minutes)*

**Presenter:** DAHLERUP-PETERSEN, Knud

**Session Classification:** Summary talks

Contribution ID: 10

Type: **not specified**

## **Symmetric quench experience and planned solution (20' + 10')**

*Wednesday, 25 February 2009 08:30 (30 minutes)*

**Presenter:** DENZ, Reiner

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 12

Type: **not specified**

## **Are there any other superconducting busses not being monitored by a quench detection system: the diode area**

*Wednesday, 25 February 2009 09:00 (15 minutes)*

**Presenter:** KORATZINOS, Michael

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 13

Type: **not specified**

## **Are there any other superconducting busses not being monitored by a quench detection system: 13kA & 6kA & 600A**

*Wednesday, 25 February 2009 09:15 (20 minutes)*

**Presenter:** FLORA, Robert Henry

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 15

Type: **not specified**

## Mechanical details of the bypass diodes

*Wednesday, 25 February 2009 09:40 (15 minutes)*

**Presenter:** DAHLERUP-PETERSEN, Knud

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 16

Type: **not specified**

## How were the diodes tested prior to installation

*Wednesday, 25 February 2009 09:55 (15 minutes)*

**Presenter:** SIEMKO, Andrzej

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 17

Type: **not specified**

## Stresses on diode joints

*Wednesday, 25 February 2009 10:10 (20 minutes)*

**Presenter:** DAHLERUP-PETERSEN, Knud

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 19

Type: **not specified**

## **What limits the maximum negative $di/dt$ for the magnet systems**

*Wednesday, 25 February 2009 11:20 (20 minutes)*

**Presenter:** THIESEN, Hugues

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 20

Type: **not specified**

**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.**

*Wednesday, 25 February 2009 10:50 (30 minutes)*

**Presenter:** DENZ, Reiner

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 22

Type: **not specified**

## **MI<sup>2</sup>T limits for magnets, what are they and how where they developed. Time budgets for detection and energy extraction for the various magnet system.**

*Wednesday, 25 February 2009 12:10 (15 minutes)*

**Presenter:** SIEMKO, Andrzej

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 24

Type: **not specified**

## **Description of energy extraction components and design criteria**

*Wednesday, 25 February 2009 14:00 (15 minutes)*

**Presenter:** DAHLERUP-PETERSEN, Knud

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 27

Type: **not specified**

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

*Wednesday, 25 February 2009 14:15 (15 minutes)*

**Presenter:** FLORA, Robert Henry

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 28

Type: **not specified**

## **Schedule foreseen for the completion of the new Enhanced QPS system**

*Wednesday, 25 February 2009 15:30 (20 minutes)*

**Presenter:** FORMENTI, Fabio

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 30

Type: **not specified**

**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?**

*Wednesday, 25 February 2009 15:50 (20 minutes)*

**Presenter:** DAHLERUP-PETERSEN, Knud

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 32

Type: **not specified**

**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?**

*Wednesday, 25 February 2009 11:40 (30 minutes)*

**Presenter:** LE NAOUR, Sandrine

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: **33**

Type: **not specified**

## **Reserve**

*Wednesday, 25 February 2009 14:30 (15 minutes)*

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 34

Type: **not specified**

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

*Wednesday, 25 February 2009 14:45 (15 minutes)*

**Presenter:** FESSIA, Paolo

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 35

Type: **not specified**

## **Stresses on busbar joints.**

*Wednesday, 25 February 2009 15:00 (15 minutes)*

**Presenter:** FESSIA, Paolo

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 36

Type: **not specified**

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

*Wednesday, 25 February 2009 15:15 (15 minutes)*

**Presenter:** FORMENTI, Fabio

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 37

Type: **not specified**

## Reserve

*Wednesday, 25 February 2009 16:30 (30 minutes)*

**Session Classification:** Individual short presentations/discussions addressing panel questions

Contribution ID: 38

Type: **not specified**

## Summary and preliminary recommendations

*Thursday, 26 February 2009 15:00 (1 hour)*

**Presenter:** THEILACKER, Jay