LHC EXPERIMENT-ACCELERATOR DATA EXCHANGE WORKING GROUP (LEADE)

Minutes of the 34th Meeting held on November 27, 2006

1. MATTERS ARISING

The minutes of the 33rd meeting were approved without modification.

2. SAFE STABLE/UNSTABLE BEAM INFORMATION AND EXPERIMENTS (D. MACINA)

Daniela Macina reported on a meeting held with the machine on October 10, 2006, where some issues on the movable devices (so far Roman pots and LHCb VeLo) were discussed. For the beam mode, which is transmitted through the GMT systems, there is one issue that needs clarification: In some situations, the beam-permit signal can still be true, although the movable devices are supposed to move out in order to allow the operators to steer the beam. Several options were discussed:

- There is only one flag that is true if MODE=StableBeams or MODE=UnstableBeams, else false.
- There are two flags, Flag 1 is true if MODE=StableBeams, else false, flag 2 is true if MODE=UnstableBeams, else false.

It still needs to be clarified, how glitches of the flags during the transition from Stable Beams to Unstable Beams can be avoided. Wesley Smith pointed out that even glitches lasting only one nanosecond are not acceptable.

Daniela also presented a scheme for the Safe Machine Parameters distribution via the timing system.

Responsibles from each experiment that are in charge of the interface to the BIC/GMT system will be identified and a meeting will be called in view of a decision of the technical implementation.

3. STATUS REPORT ON THE IMPLEMENTATION OF DATA EXCHANGE SYSTEMS (D. SWOBODA)

Detlef Swoboda gave an update on the LDX implementation. The summary document is approved, but it will still be updated regularly.

For the beam-interlock system (BIS) there will be patch panels available upon request. They must not be installed farther than 4m apart from the logics that generate the beam-dump signal.

A data-naming scheme that agrees with CMW has been proposed.

LHCb raised the issue concerning the development of a beam-phase and intensity monitor for the BPTX. Richard Jacobsson will present this proposal at one of the following LEADE meetings.

Another proposal for data exchange has been made by the Survey Group: The low-β-triplet alignment could be published over DIP.

4. PROTOCOL OF AGREEMENT BY MACHINE AND EXPERIMENTS ON MACHINE MODE (J. TROSKA, J. WENNINGER)

Jan Troska informed the Working Group about the agreement between the machine and the experiments on the transmission of mode-changes, including a signal-transmission scheme produced by M. Lamont. The "ready-for-adjust" signal is a software signal.

Ch. Ilgner