CERN/WP8-HL-LHC
Date: 17th February 2015

Minutes of the 19th HL-WP8 Bi-weekly Meeting

Held on 28th April 2015

Present: C. Adorisio (DGS/RP), C. Boccard (BE/BI), I. Efthymiopoulos (EN/MEF), B. Feral (EN/HE), L. Krzempek (TE/VSC), M. Lazzaroni (EN/MEF), J. Perez Espinos (TE/VSC), M. Raymond (PH-ADO), F. Sanchez Galan (EN/MEF).

Agenda: http://indico.cern.ch/event/390585/

Subject

The main subject of this meeting was the following of the integration studies done by ATLAS about possible modifications in the Q1-TAS regions at IP1 with the aim of improving interventions in the vacuum equipment due to the radiation increase beyond LS3.

1. News, (Ilias Efthymiopoulos))

Latest news concerning the project:

- I. Efthymiopoulos informed that the BPM will not be integrated in Q1.
- J. Perez-Espinos informed that further tests are foreseen in M1 facility for the valve (successfully tested at 0.7 T) with a magnetic field of 1.5T. Current schedule for M1 assumes commissioning in May-June, and tests will be done in July.

2. TAX-S lay-out: Conflicts with ATLAS components (M. Raymond)

Michel presented the main results of the integration study of the new TAXS lay-out at IR1.

- The CATIA model containing the baseline lay-out proposal was integrated into the ATLAS opening scenario. Result showed multiple minor conflicts (clashes) with the End Cap Toroid and a big clash between the DN100 valve and the JTT.
- I. Efthymiopoulos asked whether it would be possible to reduce ATLAS opening in z direction, M. Raymond answered that will inquiry about it.
- C.Boccard pointed that the optimal position for the BPM is 16.8 m, a maximum of 3m margin would eventually be acceptable. Strategy of BPM is still under consideration.
- F. Sanchez pointed out that the position of the valve is likely to be kept or even moved towards IP with the BPM even after the optimisation of the different subsystems.
- J. Perez-Espinos asked how we do align the BPM. I. Efthymiopoulos answered than we align everything, but the procedure of alignment of the vacuum chamber should be revised. The different modules are to be mounted within 0.5 mm tolerance.

- C. Boccard pointed out that BPM is needed to find the relative position of the two beams. It needs 12 cables. M. Raymond pointed that the disconnection is hard, a plug-in coax (type Staubli/multicontact) would be preferable.

Reported by F. Sanchez Galan