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LBDS and Kickers after LS1

Monday, September 22, 2014 12:00 PM (20 minutes)

Modifications of the injection kickers(MKI) during LS1 will be reviewed together with the expected performance for the coming run with respect to heating and UFOs.

The beam dump system has undergone several foreseen upgrades like a new link between the trigger synchronisation unit (TSU) to the beam interlock system, an additional retriggering line in case of TSU failure, a new dump protection absorber (TCDQ) and the installation of an additional vertical dilution kicker (MKBV) tank. Difficulties in holding off the voltage in the beam dump kickers (MKD) generators lead to an improved design of insulators and spacers. Results from the first week of reliability runs at 7 TeV will be shown.

A set of new interlocks for the injection and dump systems has been introduced during LS1 and will be reviewed: transfer line collimators (TCDI) gap control via virtual beta* and injection dump (TDI) gap control, injection septum (MSI) current and TCDQ position linked to the beam energy tracking system (BETS). The strategy for deploying blindable beam loss monitors at injection will be presented.

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Session Classification: Session 1 - LS1, HW Commissioning, Powering Tests - Coming out of LS1