

Title: Operational and beam dynamics aspects of the RF system in 2015

Abstract: The LHC operation in 2015 for the RF system is presented. After a brief summary of the changes made during LS1 and recommissioning in the beginning of 2015, operational RF parameters, new diagnostics, and failures related to low-power level RF and controls are detailed. Machine development studies, as well as simulation and measurement studies related to longitudinal beam stability and controlled longitudinal emittance blow-up have greatly advanced our beam dynamics knowledge about the machine. Finally, an outlook of plans for the next year is given.