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Radiation Protection Constraints During the Life Time of LHC

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The moment the first protons will be sent through LHC, the installation will become subject to CERN's radiation protection legislation. Proper pre-cautions will have to be taken before the start-up of the machine and all significant radiation parameters like prompt radiation and activation will have to be continuously monitored from then on. Based on calculations, measurements and experience the operational boundary conditions will have to be set with respect to the classification of radiation workers, access conditions, maintenance work in the tunnel, control of material leaving the tunnel, repair of material outside the tunnel and finally waste management. The talk will focus on the operational aspects and their implication on the overall operation of the LHC accelerator as function of the various LHC stages.

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