Cascade Simulations of the Betatron Cleaning Insertions of LHC, I. AZHGIREY, I. BAICHEV, IHEP; N. CATALAN LASHERAS, J.B. JEANNERET, CERN - A cascade calculation is done in the IR7 betatron cleaning insertion. It uses a detailed map of the primary losses and an accurate geometrical model of the straight section. One aim is to design a compact shielding which fits in the tight section of the tunnel. The same study allows to define radiation hardness properties of the equipment to be installed in the section and to locate areas of low activity for the installation of sensitive equipment.