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Radiometric Survey at the LNL Cyclotron

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The cyclotron recently installed and commissioned at the National Laboratory in Legnaro can deliver proton beams with current up to 700 microA and energy in the range 35-70 MeV. During the machine commissioning, the operational quantities used for radiation protection purposes have been monitored in the installation, both during the beam acceleration/extraction and after the end of irradiation, in order to evaluate prompt and residual radiation. In this work the results of such survey will be shown, compared with numerical simulations used as reference. Measurements of activation of the beam line equipment and of the cooling water will also be shown, together with a discussion on the possible source of contamination.

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