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## Radiation Physics Lab: A TID test installation at USC

*Monday, 2 September 2019 15:25 (40 minutes)*

Radiation Physics Laboratory (<http://www.usc.es/rpl>) is an accredited Secondary Standard Dosimetry Lab in the University of Santiago with more than 10 years of experience on photon and electron TID experiments. Currently the laboratory has a high dose rate  $^{60}\text{Co}$  unit together with an electron line able to produce 6 MV and 15 MV photon beam qualities and electron beams with 6, 9, 12, 16 and 20 MeV energy. Dose rates at 1 m from focus have a range between 1 Gy/min to 10 Gy/min. The lab works mainly for the aerospace industry in the test of components and systems from earth orbit to deep space missions. Additionally at 15 MV photon mode we are able to produce photonuclear neutrons through evaporation process with primary energies around 1 MeV. During the presentation will discuss the conditions to ensure a proper dosimetry evaluation in the irradiation tests.

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