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Recommissioning of a semi-industrial electron accelerator after a long shutdown

Tuesday 3 June 2025 16:00 (2 hours)

Radiation processing technology started in Tunisia by the installation of a pilot plant gamma irradiator in 1999 and an electrons beam accelerator in 2009 at the National Centre for Nuclear Science and Technology CNSTN. These facilities are established with the support of the International Atomic Energy Agency IAEA. The electrons-beam facility is equipped with CirceIII Linac accelerator, 10 MeV of energy and beam power up to 10 kw, using a conveyor roller system for industrial applications such as sterilization of pharmaceutical single use products and scientific research activities.
After a long shutdown from 2011 to 2017 due to some technical problems and the replacement of a muster compoments PFN, the machine was succefully restarted. For this reason a second qualification has been established, allowing the operation of the facility for researsh and commercial activities.
The presentation will show all aspects of the facility qualifications "IQ; OQ; PQ" according to international standards.

Footnotes

Paper preparation format

Word

Region represented

Europe

Funding Agency

Author: TRABELSI, Mohamed Hedi (CNSTN)

Presenter: TRABELSI, Mohamed Hedi (CNSTN)

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