



## RADIATION TECHNOLOGY CENTER - LIBERTYVILLE, ILLINOIS

The Radiation Technology Center (RTC) in Libertyville, Illinois is home to our Radiation TechTeam® group, our technical experts who are here to guide our Customers through the sterilization validation process for gamma, electron beam, and X-ray. They assist in establishing sterilization dose values, and provide high precision irradiation dose delivery for validation, dose audit and research purposes.

### Radiation Technology Center Capabilities

- Gamma, electron beam and X-ray irradiation dose delivery within ISO validation and dose audit requirements
- Ability to handle specialty projects, from small-volume processing to specialty dose mapping
- Processing of samples for materials studies to determine functionality and compatibility of selected components
- High-precision dose delivery to perform dose response studies or accommodate sensitive products that otherwise could easily be damaged by ionizing radiation
- Replication of product placement and delivered dose, allowing for reproducible processing cycles through a research project or highly controlled experiment
- Performance qualification, processing, and monitoring by one of our highly trained radiation technicians, providing the ultimate flexibility and oversight required for your unique validation or research needs
- Seamless transfer of validation and dose audit work into our larger commercial processing locations throughout North America
- Temperature-controlled processing, for applications when sterilization processing time needs to be minimized
- Product validation/assessment services
  - Dose establishment
  - Dose verification
  - Product feasibility assessment (feasibility to radiation processing)

### Radiation Technology Center Specializations

- Terminal processing of active pharmaceutical ingredients
- Handling and shipping of tissue/biological based products
- Processing of imported soil samples, as certified by the USDA
- Radiation testing of electrical components
- Low-dose processing of reactor components
- Viral inactivation studies

### Libertyville, Illinois Radiation Processing Campus

In addition to the Radiation Technology Center and Radiation TechTeam, our Libertyville campus also includes two gamma processing facilities and an on-site laboratory, providing Customers with a seamless transition of coordination and transportation between routine processing, testing and validation, and the RTC.



### ELECTRON BEAM

E-beam sterilization exposes products to high-energy electrons.



### GAMMA IRRADIATION

Gamma irradiation exposes products to a Cobalt 60 radiation field.



### X-RAY

X-ray irradiation uses ionizing energy from high-powered electron beam accelerators.

### FOR MORE INFORMATION

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