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About us

- **1990** Gamma-Service Produktbestrahlung GmbH (product irradiation) was founded by former scientists of the Academy of Sciences, Leipzig, with the aim of
 - continuing the construction, operation and service of irradiation facilities
- **1995** The department "Takeover of high-radioactive sources" was created
- 1998 This department was outsourced and Gamma-Service Recycling GmbH was founded by Juergen Reckin.The company is located in Leipzig, Germany.

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- **2000** A subsidiary office in Radeberg near Dresden was founded
- **2007** Takeover of the blood irradiation business from BEBIG GmbH
- 2009 Gamma-Service Recycling became part of the Gamma-Service Group International GmbH, Switzerland



- Since its foundation, the company has grown continuously
 - Start-up with 13 employees up to presently 50 employees
 - Highly qualified physicians, engineers and technicians
 - Regular extension and modification of business and service portfolio







Product and Service Portfolio

- Worldwide takeover and recycling of radioactive sources for industrial and medical use
- Worldwide supply of radioactive sources for industrial and medical use
- Road shipment of radioactive goods all over Europe with our own truck fleet and special transport containers
- Processing of radioactive waste for final storage according to the requirements of the country of origin





Product and Service Portfolio

- Decontamination and decommissioning of radioactive sites as power plants, research facilities, accelerators in Europe
- Recycling of radioactive residues
- Availability of a wide range of radiation protection containers
- Measurement services
- Laundry service for contaminated clothes
- Recycling of ionization smoke detectors



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High radioactive sources – Portfolio

- Organization of export and import of radioactive sources
- Delivery of new radioactive sources worldwide
- Worldwide takeover of disused sources for recycling
- Worldwide source exchange with special handling equipment
- Re-encapsulation of sealed sources in dedicated hot cells





High radioactive sources – Portfolio

- Transport of dangerous goods according to ADR regulations
 - Type B (U) containers for high-radioactive sources /
 radiation heads / other radioactive materials
 - Well-trained truck drivers for dangerous goods
 - Specially equipped trucks for the transport of radioactive materials
- Intermediate storage of radioactive materials on our premises







High-radioactive sources Teletherapy sources (Co-60)

- Delivery of sources for therapy devices (Co-60)
 - Maximum activity: 370 TBq / 10,000 Ci
 - Maximum dose rate in air: 100 Gy/h
- Transport and service
 - source exchange executed by experienced engineers
- Takeover of disused therapy sources and radiation heads
- Decommissioning of therapy units
- Recycling of radioactive sources and depleted uranium







High-radioactive sources Industrial sources (Co-60) and (Cs-137)

- Design and manufacturing of industrial rod sources (Co-60)
 - Maximum activity: 740 TBq / 20,000 Ci
 - Standard industrial rod source similar to C-188
 - Special source dimensions at customer request
- Delivery of Cs-137 sources for blood irradiators
- Delivery of Cs-137 sources for irradiator devices in research and development
- Design and delivery of Cs-137 sources with different specifications according to customer requests





References

- Source disposal in Tanzania (IAEA)
- Surplus Source Disposal Program (Environment Agency, UK)
- Decommissioning and Waste Management Program at



- Source Disposal Program for the Greek Atomic Energy
 Commission
- Takeover of Co-60 pencils from a research reactor (BNFL, UK)
- Several projects on behalf of the Bundesamt f
 ür Strahlenschutz (German Federal Agency for Radiation Protection)









- Development of customer-oriented solutions for disposal
- Measurement services and identification of activated components
- Professional decommissioning and takeover of activated components as well as decontamination
- Clearance of activated components according to § 29 StrlSchV (German radiation protection ordinance)







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Industrial Sources – Portfolio Takeover of Radioactive Sources

- Industrial sources:
 - Neutron sources
 - Sources for moisture measurement
 - Sources for thickness measurement
 - Sources for level measurement
- Calibration sources of measurement systems
- Sources from research centres and schools
- Identification, separation and disposal of radioactive finds







Decommissioning and Decontamination Portfolio

- Decommissioning of nuclear facilities
 - Nuclear power plants
 - Nuclear research centres and laboratories
 - Nuclear research reactors
- Decommissioning of non-nuclear facilities
 - Laboratories using radionuclides
 - Neutron generators
 - Facilities of nuclear medicine
- Decontamination and conditioning of residues and radioactive waste







Decommissioning and Decontamination Portfolio

- Takeover of residues for recycling including all transport services
- Supply of temporary workers
 - Radiation protection engineers
 - Radiation protection workmen
- Checks for contamination, clearance measurements according to the radiation protection ordinance and clearance of buildings and components
- Laundry service for contaminated clothes
- Leasing of special work clothes
- Recycling of ionization smoke detectors



References





- Decommissioning of hot cells from alpha-laboratories of the Bundesamt f
 ür Materialforschung und –pr
 üfung (federal agency for material research and testing)
- Decommissioning of an isotope laboratory at the University of Hamburg
- Decommissioning of an isochronic cyclotron (Nordzyk GmbH)
- Decommissioning of a production line for ionization smoke detectors (Siemens Switzerland)







Quality Management System

ISO 9001:2008 certified



Licences

Y/1113/98

- T1/2267/09/0
- Z/2117/08/0

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Licence for handling radioactive materials according to § 7 German radiation protection ordinance (Strahlenschutzverordung-StrlSchV) and § 17 German Atomic Energy Act (Atomgesetz) Road shipment licence for radioactive materials according to § 16 (1) StrlSchV and § 17 German Atomic Energy Act Licence for acting in controlled areas of external facilities according to § 15 StrlSchV



Cooperation

- Gamma-Service Recycling is in close cooperation with the following companies:
 - Gamma-Service Medical GmbH, Leipzig
 - Gamma-Service Isotopen- und Strahlentechnik GmbH, Dresden
 - Isotrend s.r.o., Prague, CZ
 - Gamma-Service Ltd., Byfleet, UK
 - Isotope Technologies Dresden GmbH, Dresden
 - Institut für Umwelttechnologien GmbH, Berlin
 - Nuclear Control & Consulting GmbH, Leipzig
- and GSR is a member of the Gamma-Service Group International GmbH, Switzerland





We will meet your requirements

- Just let us know -

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