Your Partner for Handling Radioactive Material

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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
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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
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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
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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
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References

- Source disposal in Tanzania (IAEA)
- Surplus Source Disposal Program (Environment Agency, UK)
- Decommissioning and Waste Management Program at JRC Ispra (European Commission)
- 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 für Strahlenschutz (German Federal Agency for Radiation Protection)
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Industrial Sources – Portfolio
Accelerators and Cyclotrons

- 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)
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
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References

- Identification and processing of thorium-contaminated soil (BASF)
- Decommissioning of the former GDR isotope production facility
- Decommissioning of hot cells from alpha-laboratories of the Bundesamt für Materialforschung und –prüfung (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)
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Quality Management System

- ISO 9001:2008 certified

Licences

- Y/1113/98  Licence for handling radioactive materials according to § 7 German radiation protection ordinance (Strahlenschutzverordnung-StrlSchV) and § 17 German Atomic Energy Act (Atomgesetz)
- T1/2267/09/0  Road shipment licence for radioactive materials according to § 16 (1) StrlSchV and § 17 German Atomic Energy Act
- Z/2117/08/0  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
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We will meet your requirements

- *Just let us know* -

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