Radioactive material management: products, instruments, waste and logistics

Environment & Safety

Management Training

Scientific Research

Muclear Medicine

Radioactive Matter













ABOUT US

Environment care, safety and health have always been Campoverde objectives. Since it was established, Campoverde has been working in business areas where technical competences and compliance with strict rules are key factors.

Campoverde offers a full, decisive and final radioactive material management, covering the entire product life, from product supply to waste disposal.

RADIOACTIVE MATERIAL MANAGEMENT

Campoverde provides a radioactive material management service, whether it is a source, waste or NORM/TENORM material.

Collection, packaging, transport, analysis, handling, making it safe, radiological characterization and disposal are some of the services provided by Campoverde to offer customized and final solutions to problems in medical, Industrial and scientific areas. Each solution is the result of a long-term experience and high quality reference standards.



All the operations are carried out in compliance with the current regulations and are duly certified in order to relieve the customer of any civil and criminal liability about waste delivered.

NORM AND TENORM

Campoverde manages NORM (Naturally Occurring Radioactive Material) and TENORM (Technologically Enhanced Naturally Occurring Radioactive Material) waste through the following process:

- 1. Remediation
- 2. Radiometric characterization: EN ISO 17025:2005 standard for gamma spectrometry
- Dosimetric evaluation at all stages of the management
- 4. Release test
- 5. Transport
- **6. Pre-treatment:** preparation of a stabilized and/or flammable mass according to specific procedures

 Disposal/incineration in national plants according to the Radiation Protection Expert specifications.

RADIOLOGICAL AND ENVIRONMENTAL MONITORING AND CHARACTERIZATION

Thanks to experienced and qualified technicians, and state-of-the-art instruments and procedures, in 2018 Campoverde Laboratory has reached an important goal as the Accreditation in compliance with ISO/IEC 17025:2005 standard.

Schedule of accreditation

WATER

- EN ISO 9698:2015. Water quality Determination of tritium activity concentration - Liquid scintillation counting method (ISO 9698:2010)
- ISO 13164-4:2015. Water quality-Radon-222 Part 4: Test method using two-phase liquid scintillation counting

FOOD SAMPLES, ENVIRONMENTAL SAMPLES AND SIMILAR MATRICES

 UNI 11665:2017. Determination of gamma emitting radionuclides by high-resolution gamma spectrometry



Campoverde offers the following radiological and environmental monitoring and characterization services in its own lab or directly on its customer sites:

- Radiometric monitoring
- Simulations with control codes
- Sample planning, characterization and release
- Sampling and sample pre-treatment
- Gamma spectrometry by HpGe on site and in the lab
- Low background liquid scintillation
- Alpha spectrometry
- Radiochemical analysis
- Release analysis
- NORM measurements and analysis



OUR AUTHORIZATIONS

Campoverde holds authorizations issued by central and local competent authorities. These authorizations allow Campoverde to execute every operation in the different areas of interest through its own resources and staff. In particular:

- radioactive waste collection authorization
- interministerial authorization for the radioactive materials route transport
- "B Category" authorization for the detention of sealed and not sealed radioactive sources
- authorization for the handling and disposal of radioactive materials and waste and for radioactive materials trading
- registration to "Albo Nazionale Gestori Ambientali" Lombardy regional section
- Material Balance Area (MBA) code for special nuclear fuel and semi-processed materials (raw and mineral) storage.

RADIOACTIVE SOURCES AND SPECIAL INSTRUMENTS

Campoverde offers a wide range of Industrial, Calibration and for Nuclear Medicine sources produced by Eckert & Ziegler, one of the main radioactive isotope manufacturer for medical, scientific and industrial use.



Thanks to the exclusive distribution in Italy of the Eckert & Ziegler Isotope Products, the sources portfolio includes a wide range of radionuclides and size, for industrial and research applications.

Furthermore Campoverde provides the Radhound series of radiation detectors by Southern Scientific, including a wide variety of probes: Geiger, scintillation, alpha and beta contamination.





Campoverde is the partner of some great international companies. The partnerships with Eckert & Ziegler, PermaFix Environmental Services, US Ecology, Augean and ACB contributed to the development of the skills required to manage every kind of radioactive and nuclear waste.



Eckert & Ziegler is a pioneer in the isotopes production and radioactive waste disposal.



Permafix is the most important US company for the decommission and the treatment of every kind of radioactive waste, including those coming from nuclear facilities.



US Ecology is a company leader in NORM (Naturally Occurring Radioactive Materials) and TENORM (Tecnologically Enhances Naturally Occurring Radioactive Materials) disposal.



Augean is a leading company in the field of modern and sustainable solutions for the hazardous waste treatment in the United Kingdom.



ACB is a British company leading in the radioactive material management, thanks to efficient disposal and recycling processes.

If you wish to receive further information about Radioactive Area activity please send an e-mail to ambiente@campoverde-group.com

OPERATIONAL SERVICES FOR **RISK MANAGEMENT**



Our services quality is certified by:



Certified company ISO 9001:2015



Certified company ISO 14001:2015



LAB Nº 1687

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements



Bentley SOA Society Attesting Offices. Campoverde is qualified for the public works. Our service is carried out in conjunction with planned interventions or single specific operations all over Italy, including the islands.



Since Campoverde works in the "ENEA Integrated Service for the management of radioactive waste coming from health, industry and scientific research areas"