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Ibero-American Forum of Radiological and Nuclear Regulatory Agencies



About FORO

 Founded in 1997, FORO brings together 11 regulatory bodies from Latin America and Iberian Peninsula to enhance safety and security.

FORO's structure is based on three pillars:

- Plenary: composed of the heads of the regulatory bodies, with a rotating presidency.
- **Technical Executive Committee**: responsible for coordinating technical initiatives.
- Secretariat: currently based in Buenos Aires, Argentina.

The Technical Programme

Strengths and harmonizes regulatory capacity in Ibero-America, funded voluntarily, and executed by **expert working groups**.

Thematic areas



Occupational radiation protection



Radiation protection in medical applications



Radiation protection of the public and environment



Emergency preparedness and response



Accident investigation



Source Control



Closing and shutdown of the facility



Waste management



Nuclear safety



Transport of radioactive material.



Legal matters

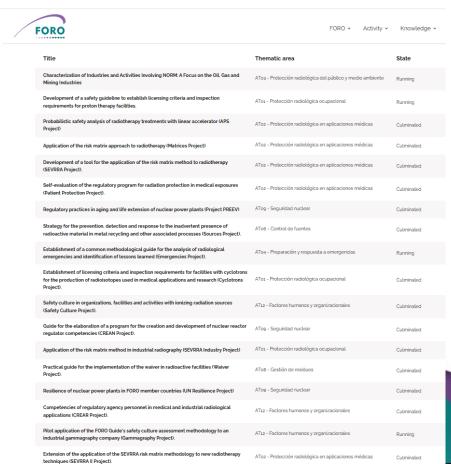


Human and organizational factors





Projects (see FORO homepage)



Impact of FORO projects on the implementation of GSR Part 3 requirements

Safety Culture in Organizations, Facilities and Activities with Ionizing Radiation Sources (Project Safety Culture)

- Requirement 5: management for protection and safety, including safety culture and human factors;
- Regulatory oversight to ensure that safety culture is maintained.

Medical Exposure

- Development of a safety guideline to establish licensing criteria and inspection requirements for proton therapy facilities
- Probabilistic safety analysis of radiotherapy treatments with linear accelerator (APS Project)
- Application of the risk matrix approach to radiotherapy (Matrices Project)
- Development of a tool for the application of the risk matrix method to radiotherapy (SEVRRA Project)

- Government/regulatory responsibilities in medical exposures.
- Optimization of protection & safety in medical exposures (justification, limiting doses) for patients and staff.
- Requirements for Safety Assessment, records, learning from incidents.
- Monitoring and feedback of operating experience.

Establishment of a guide for radiological emergency analysis / lessons learned (Project Emergencies)

- Emergency exposure situations requirements.
- Requirement for preparedness & response, transition from emergency to existing exposure situation.

Establishment of licensing criteria & inspection requirements for cyclotron facilities producing radioisotopes (Project Cyclotrons)

- Authorization/notification in planned exposure situations.
- Regulatory responsibilities, safety assessment, dose limits, worker and public exposure.

Capacity Building

Guide for the development of a regulatory competence program for nuclear reactor regulators (Project CREAN)

Competencies of regulatory agency personnel in medical and industrial radiological applications (CREAR Project).

- Regulatory body responsibilities including competence, training, oversight;
- Management system and human factors, safety culture.

TECDOC Title & Details	Year
TECDOC-1995 – Safety Culture in Organizations Handling Ionizing Radiation – Guidance for developing a robust safety culture within organizations using ionizing sources.	2022
TECDOC-2005 – Regulatory Competencies for Medical and Industrial Radiological Applications – A structured framework for regulators' competency development.	2022
TECDOC-1794 – Competency-Building Program for Nuclear Reactor Regulators – Guidelines to design a training and development programme for reactor regulators.	2016
TECDOC-1710 – Self-Assessment of Regulatory Program for Medical Radiological Protection – Tool for regulators to audit and improve medical exposure oversight.	2013
FORO/IAEA-2010 – Regulatory Practices on Ageing Management and Long-Term Operation of Nuclear Power Plants in Ibero-America – Regional guidance on ageing management and long-term safety oversight of nuclear plants.	2014
TECDOC-2069 – Regulatory Processes for Cyclotron-based Radiopharmaceutical Facilities – The latest TECDOC addressing licensing and inspection of cyclotron facilities.	2024

Recent and Ongoing Projects

- Safety culture in industrial gamma radiography.
- Inspection processes and ageing management in research reactors.
- Physical protection in transport of radioactive materials.
- Regulatory safety guide for proton therapy facilities.
- Characterization of NORM industries.

Achievements

- Delivered technical outputs, shared via FORO RED platform.
- Contributions published in FORO-IAEA TECDOCs, incorporated into IAEA Safety Guides and regional regulatory training.
- FORO projects help countries apply GSR Part 3 by improving regulation, safety culture, and protection of people and the environment.

Recognition

The programme's value has been acknowledged by:
IAEA, SEGIB, ICRP, IRPA, PAHO, WHO, among others.

Thanks!



ARGENTINA

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Autoridad Regulatoria Nuclear

BRASIL



Autoridade Nacional de Segurança Nuclear

CHILE



Comisión Chilena de Energía Nuclear

COLOMBIA



Ministerio de Minas y Energía

CUBA



Dirección de Seguridad Nuclear

ESPAÑA



Consejo de Seguridad Nuclear

MÉXICO



Comisión Nacional de Seguridad Nuclear y Salvaguardias

PARAGUAY



Autoridad Reguladora Radiológica y Nuclear

PERÚ



Instituto Peruano de Energía Nuclear

PORTUGAL



Agencia Portuguesa de Ambiente

URUGUAY



Autoridad Reguladora Nacional en Padioprotección

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