




European
Commission

JRC PORTFOLIO 31

SUPPORT TO NUCLEAR COMPLIANCE ASSURANCE



Nuclear and other related European Union (EU) and international legislation aims to protect EU citizens, the environment and industry. It is vital that the actions of both EU Member States and the Commission are fully compliant with legislation. Verification and control systems are necessary to verify compliance with the Euratom legal framework, the EU dual-use trade control legislation, and other relevant international treaties.

The portfolio aims to:

Support the EU to monitor and enhance compliance in the nuclear field, through innovative containment and surveillance technologies, nuclear material measurements, providing reference materials, improved use of data, competencies, tools and methods

Support stakeholders to ensure compliance with the Euratom Treaty and Directives (safety, waste), the EU strategic trade control framework, and the related requirements of the Nuclear Non-Proliferation Treaty and export control regimes

Positively impact society by identifying potential gaps where additional legislative guidance or capacity-building actions are needed to foster compliance with the legal framework for the peaceful use of nuclear energy

Joint
Research
Centre

Delivering on anticipation, integration and impact of EU policies:

- ▶ providing measurements, tools, methods and approaches for improving the efficiency and effectiveness of nuclear safeguards and non-proliferation activities,
- ▶ providing operational and in-field nuclear material measurements to safeguards authorities,
- ▶ supporting and assessing measurements and monitoring radioactivity in the environment and building materials, enabling Member States to comply with regulatory acts transposing Euratom directives,
- ▶ delivering technical and analytical support for the implementation of EU strategic trade controls,
- ▶ providing technical expertise and advice to support the implementation of the Euratom Directive,
- ▶ organising proficiency testing, reviewing Member State reports on the implementation of nuclear directives, capacity building, education and training,
- ▶ developing methodologies and best practices at EU level for performing workforce assessments of human resources in the nuclear area.

Time frame:

This portfolio stems from **long-standing activities** supporting the Euratom Treaty. It will continue to support the **long-term commitments** on the compliance with the Euratom Treaty, the EU legal framework, and other international legislation in the field.

Main partners:

Partner DGs

EEAS, ENER, FPI, HOME, INTPA, NEAR, RTD, TAXUD, TRADE

Selected stakeholders

CEA, ESARDA, IAEA, JAEA, OECD-NEA, US DOE

Nuclear safeguards

Containment and surveillance

Nuclear material
verification measurements

Nuclear reference materials

Nuclear compliance

Non-proliferation

Euratom

Dual-use

Data analysis

Strategic trade control

Safeguards by design

Capacity-building

Education and training

Nuclear waste

Nuclear safety

Environment

Energy

Find out more



SUPPORT TO NUCLEAR COMPLIANCE ASSURANCE

<https://joint-research-centre.ec.europa.eu/jrc-research-portfolios/nuclear-compliance-assurance>

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Science for policy

Joint Research Centre

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The Joint Research Centre provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.

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