

Norway's Bi-lateral Regulatory Cooperation Program

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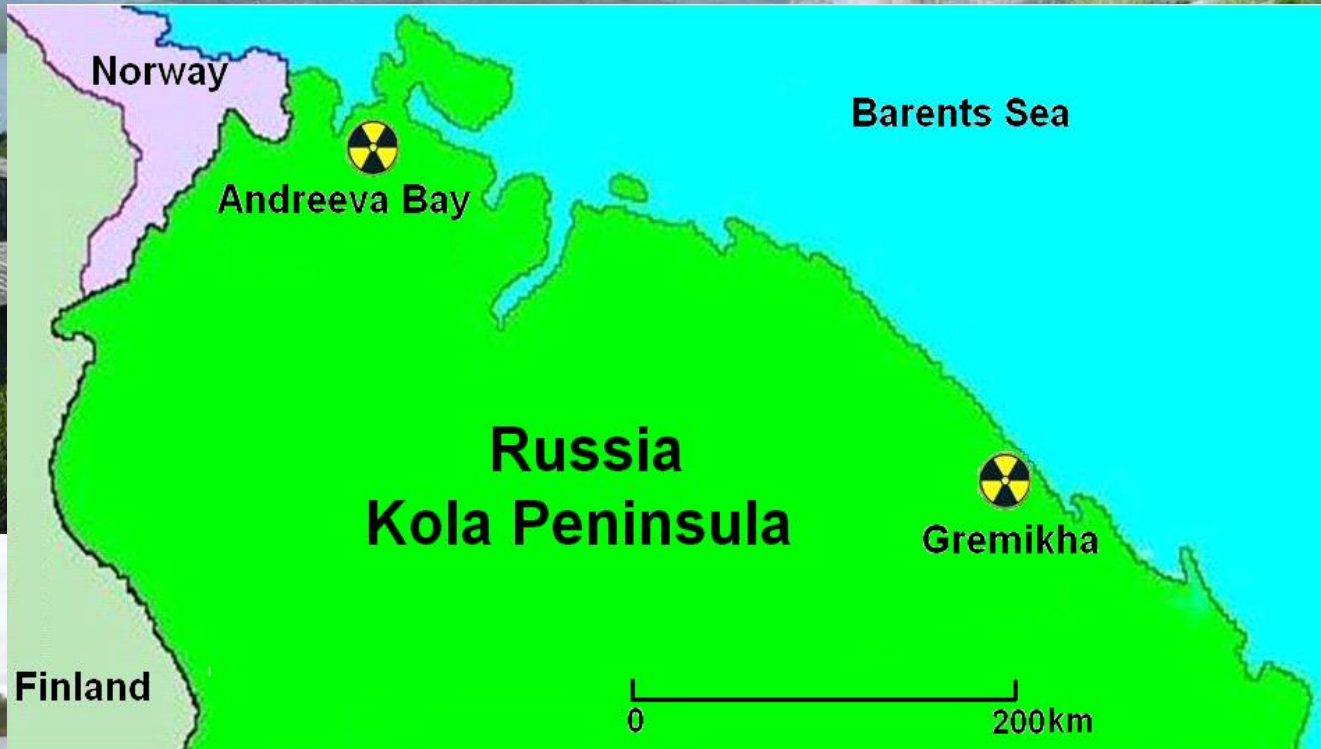
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Large Range of Legacies in Russia

SF and RW temporary store Andreeva

Decommissioning of RTGs in lighthouses



Uranium mine and mill tailings



Nuclear submarine dismantling

Norwegian Plan of Action for Nuclear and Radiation Safety in NW Russia

Overall Objectives

Plan of Action updated last month indicating a long-term sustained policy of Regulatory Cooperation

- Generate confidence that nuclear legacy management is under-pinned by a robust and independent regulatory process, by
- Working with relevant authorities to support them in their regulatory supervision **over specific problems, adopting**
- A holistic approach to environmental and human health protection, avoiding short term measures which create new legacies

Bi-lateral Regulatory Cooperation

- State Atomic Energy Corporation (Rosatom)
- Directorate of State Supervision of Nuclear and Radiation Safety of the Ministry of Defense
- Federal Medical-Biological Agency (FMBA)
- Federal Environmental, Industrial and Nuclear

Agreement with the Russian Ministry of Defence renewed just last week



Topics within Projects

- Emergency preparedness and response, with exercises
- Operational safety and optimisation
- Control of discharges and public exposure during remediation operations
- Radiological Environmental Impact Assessment: planned releases, accidents, transport, treatment and storage
- Contaminated land management and support for long-term site restoration strategies
- Site characterisation and environmental monitoring

Abnormal conditions of legacies have to be addressed!

Main Outputs

- Updated regulatory norms and standards
- Enhanced regulatory guidance which applied to abnormal conditions of legacies
- Independently collected site characterisation and environmental monitoring
- Improved and new assessment tools for controlling safety of workers, the public and the environment
- Improved capabilities in case of emergencies, including communication between Russian stakeholders and Norwegian authorities



Radiation Situation in the Environment:

Seaweed



Dose Rate



Sampling and Measurements

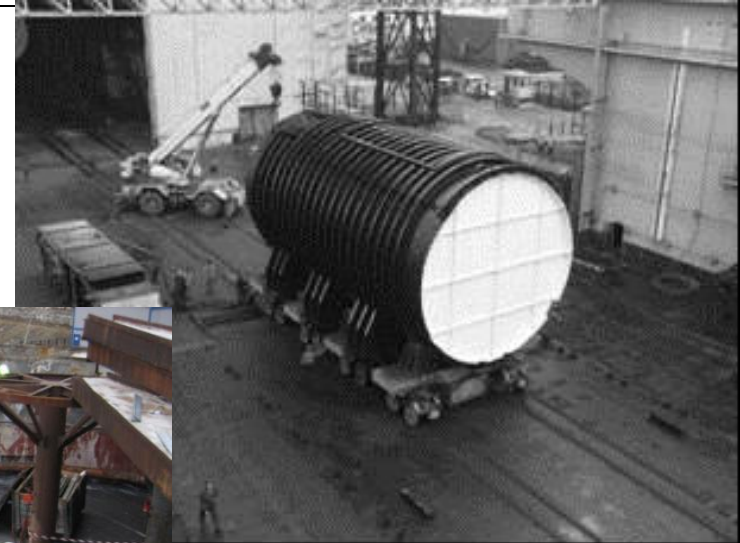


Gamma spectrometry



Arrangements for Safe Transport

- Reactor compartments
- Decommissioning and recovery of Radio-Thermoelectric Generators (RTG)



Remediation - waste management needs



Waste
treatment
and reactor
compartment
storage
facility:

Saida Bay

**Developed waste acceptance criteria
for the wastes to be stored, including
shown here the submarine reactor
compartments.**

Factors Contributing to Progress

- Cooperation in a trusting working relationship
- Effective project implementation through technical support organisations
- Effective interface between regulatory authorities, operators and technical support organisations
- Project development within a logical sequence, in parallel with industrial project implementation

Focus of Next Steps

- Practical application of the enhanced guidance
- Application of optimization
- Ensuring safety through enforcement and inspection
- Coordination with other authorities
- Arrangement for emergency preparedness and response

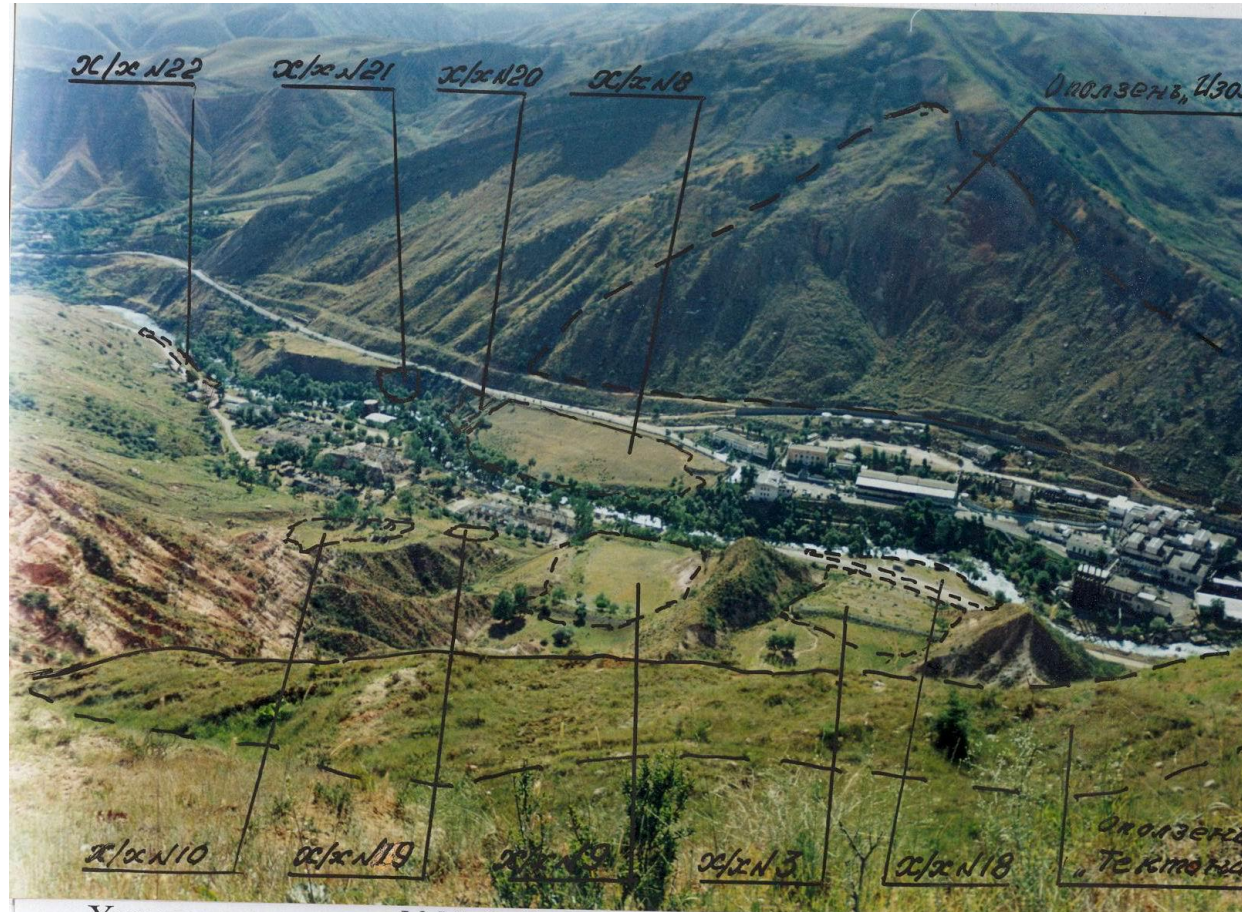
Extension of Regulatory Cooperation to Central Asia

Bilateral Regulatory Cooperation Established

Since 2008 with sister Authorities in:

- Kazakhstan
- Kyrgyzstan
- Tajikistan
- Uzbekistan

**Focus on U
mining and ore
processing
legacy**



Results of Cooperation with Central Asia

- Ambitious program of activities resulted in the completion of a substantial Threat Assessment Report (StrålevernRapport 2011:5)
- Clear picture of the status of legacy and waste management and corresponding regulatory situation in Central Asian countries
- Identified significant weaknesses in regulatory documentation, both requirements and guidance
- The roles of the regulatory authorities in each participating country are neither clearly defined nor integrated in a coherent manner
- In addition, the wider regulatory infrastructure is in a state of re-development
- Technical, scientific and other resources have been very limited

Main Focus on the Projects with Central Asia

- Clarification of roles and responsibilities of all involved organisations
- Integrated consideration of legacy issues to support coherent risk supervision across the different regulatory areas of responsibility
- Development of practical regulatory requirements and guidance relevant to the common abnormal situations arising at the Central Asian legacy sites

and

- Involvement of EurAsEC/Russian experts

Thank you for your attention!

Questions and Discussion?

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