

Main lines of the INSC

Instrument for Nuclear Safety Cooperation 2007-2013

Main activities

foreseen to be implemented in the RF under the Action Programmes 2007.

Main lines of the INSC

(a) Measures to promote a nuclear safety culture at all levels:

- support to regulatory bodies,...
- on-site assistance to operators, ...
- safe transport, treatment and disposal of SNF and RadWaste
- development and implementation of decommissioning strategies for existing installations and remediation of former nuclear sites

(b) Measures to protect against ionizing radiation sources and their safe disposal

(c) Measures to implement nuclear safeguards.

(d) Measures for emergency-planning, preparedness and response, civil protection and rehabilitation

(e) Measures to promote international cooperation

Background

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- **Past activities**

- Tacis evolution *technical assistance to strategic support*
- Hard vs. Soft Assistance *less supply more Know-how*

- **Problems encountered**

- Implementation *lack of vision and integration*
- Management *high number of problems and failures*

- **Lesson learned**

- Increase cooperation in definition and assessment
- Delegate planning and implementation responsibilities



Implementation

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- Taking into account a changing environment:
 - Radioactive waste management organization
 - New legislation on RadWaste
 - “Federal Target Programme on Nuclear and Radiation Safety assurance for 2008 and through 2015”
- “Sector” approach: actions are grouped according to “sector” of activity, thereby favoring interrelated projects that match more closely the objectives.
- Support to actions that favor a more global approach at the decision making level, requiring know-how rather than equipment.
- Sustainability of actions supported by the requirements for a long term vision implemented by the selection of actions that build on one another over several years.
- Consensus building by selecting actions that satisfy both EC objectives (translated in Collaborative Actions) and RF objectives (FTP, ...)
- Evaluation of impact rather than performance using Key Performance Indicators
- Co-financing of projects by RF



Main activities for AP 2007

- Support to NPP-operators
- Support to Regulatory Authorities
- International Cooperation
- Support to Radioactive Waste sector

Main activities: Non-waste

- Support to operators
 - Management oriented projects at HQ's level.
 - 2+2 approach
 - soft On Site Assistance (supply of equipment in limited cases): see next slide
 - finish Plant Improvement Projects (no new)
- Support to Regulatory Authorities
 - NMACS (Supervision of Nuclear Material Accountancy and Control System)
 - Licensing support for decommissioning
 - Licensing support for radioactive waste and spent nuclear fuel management
 - Assistance for supervision of transportation of SNF and radioactive material

Main activities: Support to Operators, details

- Design Safety
 - Improvement of Stress Analysis Standards.
 - Optimization of In-service inspection, NDT's and hydro-tests of the VVER-1000 primary circuit components.
 - Strength and residual life of VVER-1000 internals and upper blocks under long-term operation.
- On site assistance
 - Human Factor, Error Prevention and Near Miss Reporting
 - Guidelines for Severe Accident Management for VVER 320
 - Risk monitoring associated with human factors
 - Improvement of Radiation Protection (ALARA Principle)
 - Change Management
 - Generic Maintenance Strategy
 - Plant reliability analysis and risk monitoring
 - Transfer of knowledge and diagnostic techniques in mechanical and electrical equipment



Main activities

Radioactive Waste Sector

2007: 10Mio€
2008: 13Mio€



Approach



Collaborative Actions

- CA 1:** Organizational aspects of Radioactive Waste Management – *Improving the safety of waste handling and disposal by supporting improvements in legislation, regulations, funding mechanisms, organizations, training, etc.*
- CA 2:** Supporting the decommissioning of obsolete or hazardous nuclear facilities
- CA 3:** Supporting the remediation of areas of front end fuel cycle and other obsolete nuclear facilities
- CA 4:** Improvement of the network of Radon enterprises

Definition of two Integrated Projects for the AP2007:

- IP 1: Support to the establishment and operation of the Radioactive Waste Management Organisation (CA 1)
- IP 2: Support to Decommissioning and Remediation (CA2 & 3)

Main activities

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Support to Radioactive Waste Management Organisation

First phase (AP2007) includes (tentatively) 6 inter-related activities:

1. improvement of the decision processes concerning repositories for nuclear waste.
2. improvement of the training system for the personnel of radioactive waste.
3. transfer of European know-how to Russia for a specific waste management and conditioning technologies.
4. introduction of a new classification scheme that introduces the Very Low Level Waste category in the regulations for Radioactive Waste Management.
5. support to the new Radioactive Waste Management organization into the upgrading of the radioactive waste classification.
6. transfer of know-how and experience to Russian experts on the decommissioning of VVER and RBMK NPPs from relevant projects in EU countries



Main activities

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Support to Decommissioning and Remediation

First phase (AP2007) includes (tentatively) 4 inter-related activities:

1. decommissioning activities of a radiochemical facility heavily contaminated by the production of nuclear fuel.
2. setting up of a public information centre and a research centre in the Eastern-Urals trail.
3. monitoring of radiation in the greater Moscow area.
4. inventory and assessment of the needs of all territories that require remediation.



End of presentation

Q&A