

# Experience of cooperation with Russian Federation Regulatory Authorities (IRSN (France))

1. Participation to TACIS projects
2. Bilateral NRPA - Rostekhnadzor and NRPA – Federal Medico-Biological Agency (FMBA)

The IRSN is the Technical Support Organization for the two French Nuclear safety Authorities:

- the « Autorité de Sûreté Nucléaire » ASN : civil use of nuclear energy,
- the « Délégué à la Sûreté Nucléaire pour les installations et activités intéressant la Défense » DSND : use of nuclear energy for defense purposes,

Since the 1990s, IRSN participates to TACIS projects in support to Russian regulatory body « Rostekhnadzor » (former GAN) in the fields of nuclear safety, radioactive waste management and improvement of regulatory documents.

Since 2006, IRSN participates to bilateral Norway- RF regulatory projects. IRSN's participation is financed by CEA through the GPG8 program.

In the GPG8 framework IRSN participates in the NRPA projects aimed to assist to the Russian Authorities:

- RTG regulatory project (2006 – 2008),
- Emergency preparedness on Gremikha (2009)

In 2007 and 2008 IRSN was involved also:

- in the Lapse working group, funded by EBRD
- in regulatory projects in support of remediation of Andreeva Bay and Gremikha, funded by Norway and EC

## Pending issues related to remediation of legacy sites and facilities in North West Russia

### Radioactive Waste management:

- at present time there is no plan for any final disposal,
- regional processing and **long term** storage centre under project (Sayda bay),
- no **yet** clearly defined waste acceptance criteria (WAC), **especially for high level waste (control rods)**

### Emergency preparedness:

- specifics of the activities,
- remoteness of the sites, lack of means of access (Gremikha).

## Consequences on on-going industrial activities

### PROBLEMS:

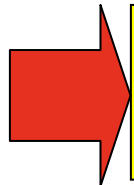
RW packages have been prepared before definition of WAC for long term storage or disposal: on-going or planned activities in Andreeva and Gremikha, SM dismantling, Lepse.



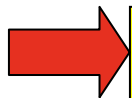
Are the packages, the submarine compartments and the Lepse sections are compatible with the future WAC?



Is it necessary to establish a regulation basis for the WAC before to conduct the designs of the future facilities: Andreeva Bay, Gremikha, Lepse, etc.



Risk of creation of a new legacy if RW packages not prepared with consideration WAC for Sayda Bay



Additional costs if on-going projects must be modified

## Experience feed-back of IRSN involvement in FMBA –NRPA regulatory projects in support of remediation of Andreeva Bay and Gremikha bases and in TACIS projects

### Radioactive waste management:

To be taken into consideration:

- 1- Andreeva BAY experience for VLLW management (on site final disposal for VLLW of type landfill disposal, new guidance creating the VLLW category of waste for remediation of SevRao facilities (R ONAO SevRAO-08) (Information on the French experience for VLLW disposal (ANDRA facility) has been provided to NRPA in support of its regulatory projects with FMBA): impact on the new law on waste management ?**
- 2- potential influence of WAC for Sayda Bay under development on on-going industrial projects, especially for the LEPSE dismantling ( (Tacis regulatory project RF/TS/47 in support to Rostekhnadzor)**

## Experience feed-back of the RTG regulatory project in support of the RTGs recovery and dismantling

Very positive results of the bilateral NRPA- Rostekhnadzor regulatory project (support of Western experts (IRSN, ENVIROS, FACILIA, SSM))

The operators have been involved in the project and have discussed with the regulator

- The operators are aware of their responsibilities,
- The regulator knows better the industrial project and **has improved the regulatory framework** accordingly,
- The inspectors know the important practical issues to be verified when supervising the dismantling process (**inspection guidelines developed** as a result of the project)
- The issue of emergency preparedness and response has been considered: **a new Federal Norm and Rule on emergency preparedness in case of accident during transport of radioactive material** has been issued

# Emergency preparedness and response if accident during remediation activities on Gremikha site (Response in case of “off-site” radiological consequences”)

