



ВНИИАЭС

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Preliminary studies for the decommissioning of the reactor compartments of the former Paldiski military nuclear site and for the establishment of a radioactive waste repository

Task 5. Cost of waste management, decommissioning of the reactor compartments and disposal

EXECUTION ORDER

13- 14 November, Tallinn, Estonia



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Activity 5.1. Development of methods for estimating the cost of radioactive waste management

On the basis of the Contracting Authority's methods for calculating the cost of radioactive waste management and with a glance of cost estimation methods of activities developed by VNIIAES on the basis of RW process chains will be developed the cost estimation method for radwaste management of RW generated during decommissioning of reactor compartments.

Cost estimation will be done on the operations in each process chain on cost items:

- The cost of labor;
- The cost of materials;
- The cost of the use of machines, tools and equipment

Activity 5.2. Development of methods for estimating the cost of decommissioning the reactor compartments

Based on the VNIIAES method of the decommissioning cost calculating the methodology for cost calculating of reactor compartments decommissioning will develop. Cost allocation will be done in stages and types of activities: dismantling, decontamination, fragmentation, etc.

Activity 5.3. Estimated cost of decommissioning the reactor compartments

On the basis of the results of Task 3 and activities 5.1 and 5.2, the costs of all the studies and works to be performed in the course of the reactor compartments decommissioning. The costs related to the management of the waste generated during decommissioning shall also include the costs of interim storage and disposal of waste. Price allocation during decommissioning activities will be performed stage by stage, for which the whole decommissioning process will divide.

Activity 5.4. Plan of long-term measures and the related costs in waste disposal

For determine of long term effectiveness the assessment methods for disposal of radioactive waste (conditioned, without packages) in the disposal facility, submitted by the Customer will do. The total weight of the dismantled radioactive equipment intended for disposal, the weight of buried equipment, plus lots of secondary waste, but excluding the volume or weight of the package will assess. On the basis of this evaluation will be determined by the effectiveness of radioactive waste management, ie than more waste meets the eligibility criteria, the greater the impact on the environment and the population meets the requirements, and the disposal facility is used more efficiently .

Activity 5.5. Plan of short-term measures and the related costs in waste disposal

To assess the short-term effectiveness the following estimation have to be done:

1. The collective dose of personnel during decommissioning
2. Exceeding annual individual effective dose during transportation waste and disposal of radioactive waste into the disposal facility

Activity 5.6. Institutional aspects and sensitivity analysis

This problem should be assessed risks from changes in the volume and characteristics of the waste to be disposed, the change in value of decommissioning works and radioactive waste management associated with the introduction of new technologies, regulations and rules in the field of nuclear energy.



Thank for your attention!

