Organizational and Technological Aspects of Salvaging Sunken and Dumped Potentially Hazardous Objects

The 40th State Research Institute of MoD

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Classification of salvaged objects

- Type of Object
  - Nuclear Submarines
  - Reactor compartments
- Containers with RW
- Technical conditions
  - Level of radiation hazard
  - Status of objects destruction
Tactors that affect salvage
Salvaging of potentially dangerous objects

- Data processing
- Inventory making
- Development of salvaging technology
- Preparation of technical means and rigging

Salvaging

- Search
- Transportation
- Disposal
- Recycling

Sequence of stages for salvaging sunken objects
Transportation of NPS K-60 with SNF on board from Gremikha to the Kola Bay with the help of the vessel Transshelf in the frames of the AMEK programme in 2006
Construction and use of special support pontoons in the frames of AMEK
Activities

- Certification of objects
- Analysis of risks and risk management
- Choice of a preferred option of salvaging of each specific object
- Development of salvaging concepts
- Investigation and monitoring on the seabed
- Group of similar objects
- Certification of objects
- Development of salvaging concepts
- Priority areas of international cooperation

Defining funding sources
Search and mapping of objects
Solving organisational issues
Analysis of risks and risk management
Choosing implementers
Investigation and monitoring on the seabed
Group of similar objects
Certification of objects
Development of salvaging concepts

Priority areas of international cooperation
Salvaging of radioactive test vessel Kit on Ladoga

Transportation of decommissioned NPSs from Kamchatka to Primorski Krai

Salvaging NPS Б-313 on Kamchatka

The 40th State Research Institute of MoD RF has taken part in the following works with radiation hazardous or potentially hazardous objects
Salvaging of RTG ИЭУ-1 on Sakhalin in 2007 (had fallen from a helicopter in 1997)

Experience of other organisations is taken into account by The 40th State Research Institute of MoD
The 40th State Research Institute of MoD is experienced in using vessels of the Russian Navy in particular in storm weather conditions.
The 40th State Research Institute of MoD can develop technologies of application for manned submarine apparatus and килекторных wessels
The 40th State Research Institute of MoD have technologies of TV remote control and autonomous unmanned apparatus of various types.
The 40th State Research Institute of MoD develops diving and underwater technologies
Thank you for your attention