Construction Risk Management Techniques for Decommissioning Projects

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ROSATOM ENGINEERING PROJECTS

No. 1 in the world in terms of the number of simultaneously implemented nuclear reactor construction projects (3 units + floating NPP in Russia and 36 units at various implementation stages abroad)
ASE GROUP

30+ NPP Units are under design and construction = about 30% of nuclear projects worldwide

Presence in 18 countries worldwide

22 000 employees, including 5700 design engineers

80% of order book are projects abroad

Multi-D – innovative technology of design and construction of complex engineering facilities

8 nuclear GW commissioned over the last 10 years
WHY DECOMMISSIONING

“The term decommissioning refers to administrative and technical actions taken to allow removal of some or all of the regulatory controls from a facility ... These actions involve decontamination, dismantling and removal of radioactive materials, waste, components and structures”¹

¹ Decommissioning of Facilities, IAEA Safety Standards Series No. GSR Part 6

- Average age of the worldwide nuclear fleet is close to 30 years.
- It means that in another thirty years currently active reactors will have to be demolished and dismantled.
- By 2080 NPPs currently under construction in Russia, China and India will meet the end of the lifecycle as well.
STANDARDS

Safety Reports Series
No. 97

Management of Project Risks in Decommissioning

IAEA
International Atomic Energy Agency

ISO 31000

Risk management

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DOCUMENT FLOW AND HUMAN INVOLVEMENT

Identify

Plan

Manage

Monitor

Report and Review

Risk Coordinator

Risk experts

Risk owners

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## CONCLUSIONS

### DOs

1. Consider decommissioning activities as project activities and apply risk management as part of project management;
2. Introduce risk management as a discipline, not a one-off activity;
3. Maintain a proper risk register;
4. Assign a risk coordinator who would be familiar with the project.

### DON´Ts

1. Let risk management be seen as a separate procedure and fall out of the internal regulations system;
2. Let risk management degrade to a form-filling exercise;
3. Let risk coordinator be detached from the project team.
THANK YOU FOR YOUR ATTENTION