Emergency Preparedness and Response arrangements in Bulgaria

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Outline

I. N/R hazards in Bulgaria

II. Emergency preparedness – legislation, emergency response plans, training, exercises, public awareness

III. Emergency Response – principles, responsibilities, Unified Rescue System, etc.
I. The main N/R hazards in Bulgaria

• Nuclear or radiological emergency in Kozloduy NPP

• Transboundary radioactive contamination in case of N/R emergency outside the country

• Radiological emergency during transport of radioactive materials, including illicit trafficking incidents; incidents with orphan radioactive source, incidents during transport of spend and fresh fuel;
NPP in and around Bulgaria

- One domestic NPP - Kozloduy NPP
- One foreign NPP about 30 km from border – Cernavoda NPP
Emergency Planning Zones and Distances

- **PPZ** – 2 km
- **UPZ** – 30 km
- **Distances:** 100 km
II. Emergency preparedness

In compliance with the Ministry of Interior Act and the Disaster Protection Act, DG Fire Safety and Civil Protection is a national specialized structure in MoI for ensuring fire safety, rescue and protection in case of disasters.
Legislative framework, main laws

- Disaster Protection Act
- Ministry of Interior Act
- Environment Protection Act
- Ministry of Health Act
- Act on the Safe Use of Nuclear Energy
Legislative framework, main regulations

- **Regulation** on emergency planning and emergency preparedness in case of nuclear and radiological emergency
- **Regulation** on radiation protection
- **Regulation** on conditions and procedures for operation of the National system for early warning and disclosure of executive authorities and the public distress and warning if air hazard
- **Regulation** on the conditions and rules for medical insurance and health provisions for the protection of populations in case of radiological emergency
- *Etc.*
Emergency plans and procedures

• National Disaster Protection Plan (Basic Plan)
  - Off-site emergency plan

• Emergency plan of Kozloduy NPP (On-site plan)

• Emergency plans for the transport of fresh and spent nuclear fuel

• National counter-terrorism plan

• National Operational Procedures for Response in Case of Radiological emergencies
National Disaster Protection Plan

First Part
Actions in case of significant earthquake

Second Part
Action in Case of Floods

Third Part
Actions in Case of Nuclear and Radiation Accident

Forth Part
Action in Case of Industrial Accident

Fifth Part
Action in Case of conflagrations

Section 1: Off-site emergency plan
Section 2: Transboundary emergency plan
Section 3: National Operational Procedures

EPRReSC-7 meeting, 30.10.-1.11.2018 Vienna
According to the Disaster Protection Act, the Governors elaborate and approve Regional Disaster Protection Plans. All 28 Regional Plans for Disaster Protection are approved by the Minister of Interior
Emergency training

- Training of first responders
- Training of competent authorities
- Drills and Exercises
Protective measures

- Notification
- Potassium-iodine bills - ITB
- Sheltering
- Evacuation
Public awareness

- Leaflets
- Quiz for children
- Open doors day
III. Emergency Response

• Unified Rescue System with all its components:
  - Prevention and management of emergency
  - Specialized structures established at municipality, district and national level
  - Specialized structures established at site level

• National Headquarters - manage different types of emergencies, including nuclear or radiological emergencies

• Ministry of Health – evaluates the predicted and averted doses and proposes radiation-hygienic protective measures

• BNRA
Unified Rescue System

- Decision makers:
  - national level: National Headquarters – leaded by Prime-minister, coordinated by Minister of interior, all competent authorities are represented at highest level
  - district level: District headquarters – leaded by governor
  - municipality level: municipality headquarters – leaded my mayor
  - on-site: on-site incident commander
CBRN Rescue services
CBRN Rescue Services Equipment
Tools and Decision Support Systems

I. National Early Warning and Alert System

- System for early warning and alert of the executive bodies and the parts of the Integrated Rescue System
- System for early warning and alert of the population
Tools and Decision Support Systems

II. National Radiation Monitoring System - Bul RaMo
Tools and Decision Support Systems

III. Radiation Monitoring Information System “Katrin”
Tools and Decision Support Systems

IV. Real-Time On-line Decision Support system JRODOS
Tools and Decision Support Systems

V. Decision Support System „ESTE Kozloduy“ (Real-Time On-line)
THANK YOU FOR YOUR ATTENTION!