



State Office  
for Nuclear Safety  
of the Czech Republic

## Regulatory overview

# CBRN Regulation in the Czech Republic in the area of competence of SUJB

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# Regulatory framework – overview

- no separate "CBRN law" in the Czech Republic
- regulatory framework - divided into several legal acts according to the type of threat and the intervention regime

# Chemical part



**Act No. 19/1997 Coll., on some measures concerning chemical weapons prohibition** - under the responsibility of SUJB

- prohibits the development, production, stockpiling, possession and use of chemical weapons, as well as direct or indirect assistance in their acquisition,
- defines rules for handling of toxic chemicals and their precursors that could be misused to violate the ban (so-called substances subject to the Convention regime),
- sets out the conditions for granting licenses for handling controlled substances (especially Schedule 1 substances) and the obligation to report their handling, sets out rules for control and reporting regime.

**Act No. 224/2015 Coll., on the prevention of major accidents caused by selected hazardous Chemical substances or chemical mixtures** - under the responsibility of Ministry of Environment

- key for operations with hazardous chemicals: object categorization, risk assessment, safety documentation, emergency planning and physical protection.
- relevant mainly for chemical accidents in facilities with hazardous chemical substances.



# Biological part

**Act No. 281 / 2002 Coll. on some measures related to a ban on bacteriological (biological) and toxin weapons** - under the responsibility of SUJB

- regulates rights and obligations of natural persons and legal entities as associated with the ban on development, production, stockpiling and use of bacteriological (biological) and toxin weapons; their disposal and the handling of highly hazardous and hazardous agents and toxins that could be abused to violate the ban on bacteriological (biological) and toxin weapons; and the execution of governmental administration in this area.

**Act No. 258/2000 Coll., on the protection of public health** - under the responsibility of Ministry of Health

- a preventive tool and legislation to address the consequences,
- healthcare providers - legally obliged to immediately report the occurrence of serious infectious diseases or suspicions of them to hygiene stations,
- allows for the imposition of quarantine measures, isolation, medical supervision, or a ban on mass events.
- emergency measures: In the event of a CBRN incident or health threat, public health protection authorities declare emergency measures pursuant to this act,
- cooperation with IRS (Integrated Rescue System) units: Hygienists closely cooperate with the Fire and Rescue Service on decontamination, risk analysis and determination of protective measures.



# Radiological and nuclear part

**Act No. 263/2016 Coll., atomic act** - under the responsibility of SUJB

- radiation extraordinary event management (preparedness and response)
- defines obligations in the event of radiation extraordinary events
- specifies how permit holders and state administration bodies should proceed (e.g. warning the population and steps to limit the consequences of a leak).
- physical protection and non-proliferation of weapons: contains strict measures to secure nuclear facilities and materials to prevent their misuse, theft or sabotage.
- regulates the system of guarantees for the non-proliferation of nuclear weapons.
- inspection and supervision - defines the powers of the State Office for Nuclear Safety



# Intervention, coordination and crisis management

**Act No. 239/2000 Coll., on integrated rescue system** - under the responsibility of Ministry of Interior

- regulates emergency response, coordination of IRS units, response commanders, warnings and protection of the population.
- emergency, defined broadly as an event threatening life, health, property or the environment and requiring rescue and liquidation work - thus covering chemical, biological, radiological and nuclear incidents
- practical and methodological aspects - the General Directorate of the Fire and Rescue Service of the Czech Republic.

**Act No. 240/2000 Coll., crisis management act** – under the responsibility of Ministry of Interior

- in case A large-scale CBRN incident would meet the definition of an emergency exceeding the capacities of the regular components of the Integrated Rescue System (IRS) according to the Act on the IRS No. 239/2000 Coll. And requires the declaration of one of the crisis states (state of danger or state of emergency), it is governed by the Crisis Act.

**Act No. 224/2015 Coll., on the prevention of major accidents caused by selected hazardous chemical substances or chemical mixtures** - under the responsibility of Ministry of Environment

**Act No. 263/2016 Coll., atomic act** - for the management of the radiation extraordinary event (SUJB)

# Legislative acts in the area of competence of SUJB



## Chemical part:

### **Act No. 19/1997 Coll., on some measures concerning chemical weapons prohibition**

- implements **Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction (CWC)**.

- prohibits the development, production, possession, transfer, use and other handling of chemical weapons,
- defines basic terms (chemical weapon, toxic chemical substance, precursor, specified substances, etc.),
- regulates the regime for handling "specified substances" according to lists 1, 2 and 3,
- establishes reporting, registration and in some cases licensing obligations,
- addresses the procedure for finding chemical weapons or equipment for their production,
- regulates the control of compliance with the law, violations and sanctions.

# Legislative acts in the area of competence of SUJB



## Chemical part:

### **Act No. 19/1997 Coll., on some measures concerning chemical weapons prohibition - Responsible authorities and other affected entities**

- The State Office for Nuclear Safety - performs state administration and control, grants licenses, keeps records, carries out inspections and discusses violations.
- The Police of the Czech Republic - receives notifications of the discovery of chemical weapons, suspicious activities, loss or theft of certain substances.
- The Fire and Rescue Service of the Czech Republic - involved in discoveries and security interventions.
- The Ministry of the Interior, the Security Information Service, Military Intelligence and the Office for Foreign Relations and Information - provide opinions or information on the security aspects of the licensing regime.
- The Military Police and the Prison Service of the Czech Republic - have reporting obligations for chemical substances used to ensure internal order and security.
- International inspectors from the Organization for the Prohibition of Chemical Weapons (OPCW) may be present during inspections under the rules of the Convention.

# Legislative acts in the area of competence of SUJB



## Biological part:

### **Act No. 281 / 2002 Coll. on some measures related to a ban on bacteriological (biological) and toxin weapons**

- the prohibition of biological and toxin weapons,
- rules for handling high-risk and hazardous biological agents and toxins,
- licensing regime for certain activities,
- registration, reporting and security obligations,
- control, corrective measures, violations and sanctions,

= a special security regulation that is intended to prevent the misuse of biological agents and toxins for military or other prohibited purposes.

# Legislative acts in the area of competence of SUJB



## Biological part:

### **Act No. 281 / 2002 Coll. on some measures related to a ban on bacteriological (biological) and toxin weapons**

#### **Responsible authorities and other affected entities**

- The State Office for Nuclear Safety - exercises state administration in this area, issues, amends and revokes permits, keeps records, carries out inspections, imposes measures and discusses violations.
- The Police of the Czech Republic - receives notifications of findings of suspicious materials, equipment, losses or suspicions of prohibited handling and informs SUJB.
- The Ministry of Health and the Ministry of Defence - operate reference laboratories used in supervisory activities.
- Ministries and other administrative authorities - have an information obligation in the event of epidemics and infections if there may be a leak or misuse of agents or toxins.



# Legislative acts in the area of competence of SUJB

## Radiological and nuclear part

### **Act No. 263/2016 Coll., Atomic Act**

- Regulates the nuclear (nuclear materials, nuclear facilities, non-proliferation of nuclear weapons) and radiological (sources of ionizing radiation, radiation protection, accidents, monitoring) part of CBRN
- Prevention of misuse of nuclear and radiological materials - Security of nuclear facilities and nuclear material, Physical protection, Access control, Registration and tracking of material.
- Detection and monitoring - Monitoring of the radiation situation in the territory of the Czech Republic, Obligation to report the loss, theft or discovery of nuclear material or other sources of ionizing radiation.
- Preparedness and response – emergency preparedness and response to a radiation emergency, Warning of the population, iodine prophylaxis, evacuation, cooperation with the IRS.
- Non-proliferation / counter-proliferation - Prohibition of nuclear weapons, Safeguards regime, Export and import control of nuclear items and dual-use items.

# Legislative acts in the area of competence of SUJB



## Radiological and nuclear part

**Act No. 263/2016 Coll., Atomic Act** - nuclear non-proliferation - Sections 165-174, general provisions (Section 6 and 7)

- 1) Peaceful use only for peaceful purposes – Section 6(1): nuclear energy and nuclear assets may be used only for peaceful purposes and in accordance with the international obligations of the Czech Republic.
- 2) Direct prohibition of nuclear weapons - Section 7 prohibits the production of nuclear weapons or other nuclear explosive devices, their acquisition, the provision or seeking of assistance in their development and production, the acquisition of control over them, nuclear test explosions and support for such explosions.
- 3) Safeguards regime and international control - Sections 165-167 introduce a regime for so-called safeguards facilities and control of nuclear material:
- 4) Control of imports, exports, transit and transfers - Sections 168-173 regulate: export and transit of nuclear material and selected items in the nuclear field, import of these items, regime for dual-use items in the nuclear field, obligation of state guarantees and end-user declarations, notification of completed exports/imports/transfers, retention of records and commercial documents.



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**Thank you  
for your attention**

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State Office  
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## Practical implementation

# CBRN Regulation in the Czech Republic in the area of competence of SUJB

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9 June 2026

# State Office for Nuclear Safety (SUJB)



**Independent nuclear regulatory body** – own budget, legislation, reports to Prime minister

- **3 main sections**
  - Nuclear Safety – **physical protection measures**
  - Radiation Protection – **handling with radioactive materials, exp/imp control**
  - Management and Technical section
    - Department of Non-Proliferation

## **Department of Non-Proliferation main goals:**

- SSAC - **Nuclear Material Accounting and Control and Additional Protocol**
- CWC and BWC implementation
- **Inspections**
- International Control Regimes (NSG + ZC)
- **Incident and Trafficking Database - ITDB**
- Issuing of licences for handling with nuclear material, toxic chemical or precursor and highly hazardous biological agents and toxins
- Issuing of license for export and import of nuclear items
- Comprehensive Nuclear Test Ban Treaty (CTBT)



# NM and RM Detection and Response Operations

## SUJB – Response role

- based on the Atomic law – set by internal procedures on accidental gains or losses of NM or RM
- seized material transported by specialized department of police (in case of a criminal investigation), firefighters or TSO (SUJCHBO/SURO) for detailed analysis
- physical verification (inspection) performed by SUJB inspectors

## Verification instruments:

- Gamma detectors (Georadis RT-30N)
- Environmental swipes (CVŘ - NWAL laboratory)
- Nuclear Material database - SSAC
- Nuclear Material analysis – by SUJCHBO, UJV Řež
- Integrated Rescue System of the Czech rep. (nuclear issues)
- Transit matching within the CZ and EU



# Participating First Responders & Institutions



## First responder units (Integrated Rescue System)

- Police of the Czech Republic
  - ✓ National Center for Countering Terrorism, Extremism, and Cybercrime (NCTEKK)
  - ✓ Pyrotechnic Service
  - ✓ Institute of Criminalistics
- Fire and Rescue Service (Chemical Unit)

## Expert and regulatory bodies

- State Office for Nuclear Safety (SUJB)
- National Institute for Nuclear, Chemical, and Biological Protection (SÚJCHBO, v.v.i.)
- Research Centre Řež (CVŘ/UJV Řež)

## Building Interagency Preparedness Through Joint Exercises

- Improve response to nuclear security incidents
- Support nuclear forensic investigations





# Training of CBRN Detection

## Learning management

- NDA or DA analysis – knowledge transfer with Research Center Řež/UJV Řež or SUJCHBO
  - ✓ Lectures
  - ✓ Analytical services (environmental swipes)
  - ✓ Nuclear forensic methods development (SIMS, XRF, SEM-EDX, XRD, Raman,...)



## Field Testing of detection equipment and exercises

- Czech institutions participate annually in:
  - ✓ International exercises (e.g. under NSDD) or CMX
  - ✓ National exercises e.g. “ZÓNA”
  - ✓ Exercises organized by the General Directorate of Fire and Rescue Service (GŘ HZS)



## Continuous training ensures:

- Readiness for nuclear and radiological incidents
- Strengthened cooperation across agencies
- Alignment with international best practices





# Threats Assessment – Defence

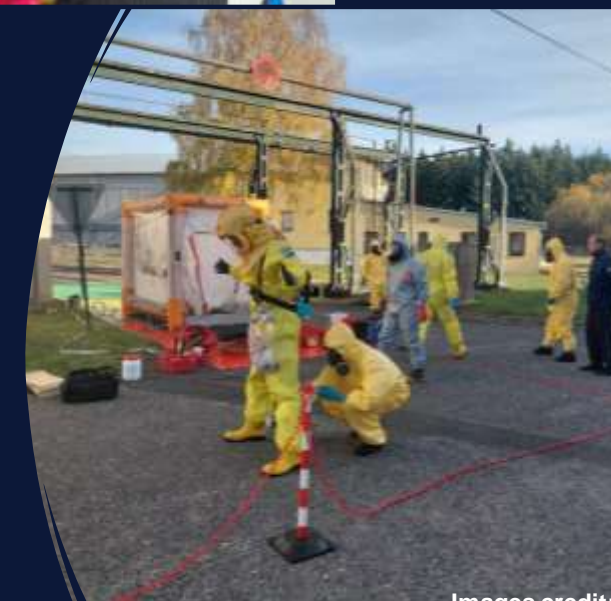
## Prevention of the diversion of NM or RM

- Physical Protection – measures strengthening
- Safeguards – improving of the SSAC
- Emergency Preparedness
- Cooperation among the IAEA and member states
- Inspection activities – modern equipment and detection techniques



## Detection of the illicit movement of the material

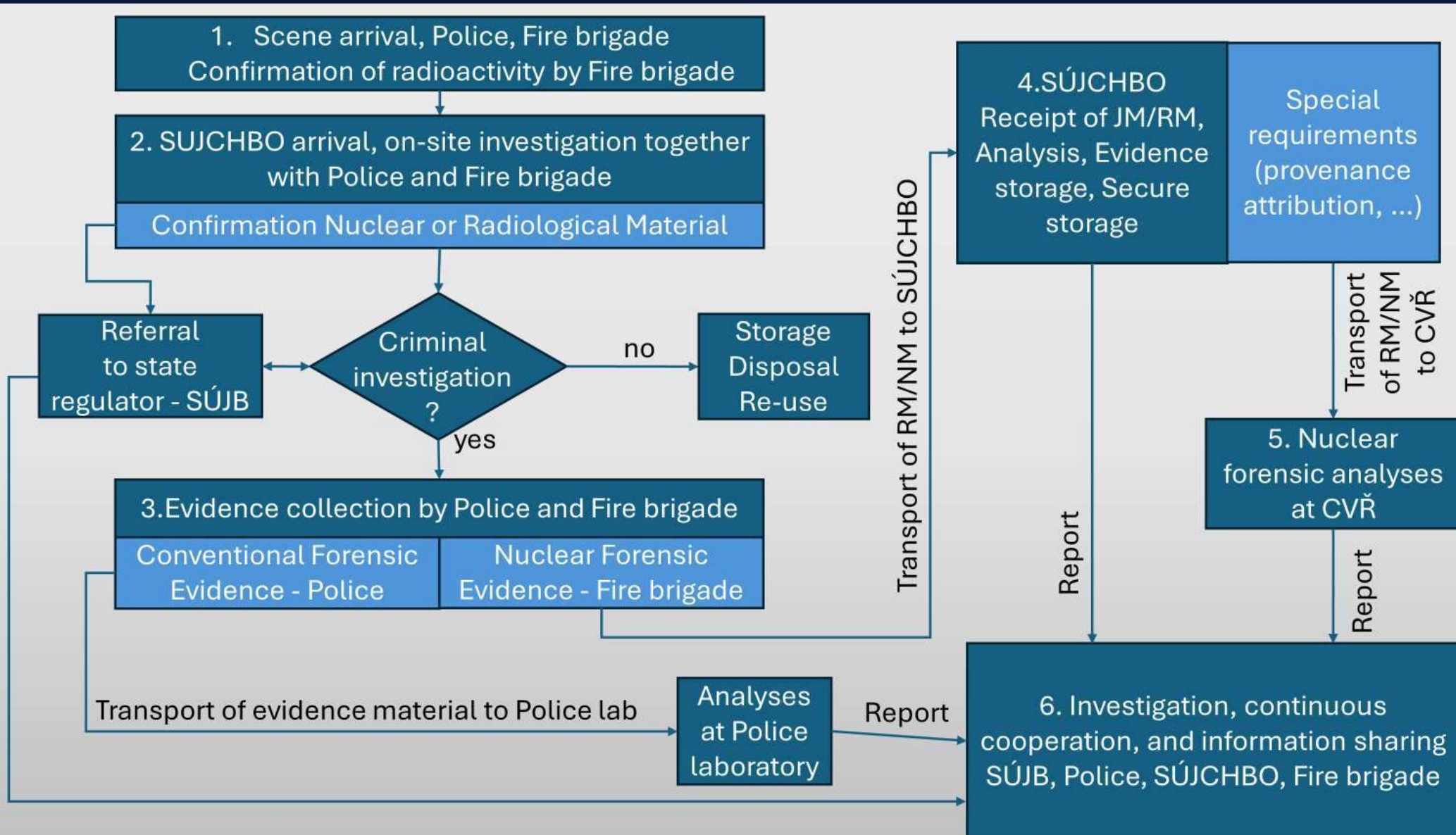
- Technical means
- Intelligence - extensive cooperation of the state authorities focusing on investigation of the illegal activities
- Accountancy and Control of NM and RM



Response of the competent authorities – SUJB, SUJCHBO,  
Police, Fire Brigades...



# Process description





# Conclusion

## Key Activities

- Scene control and hazard zone management
- Radiation monitoring and protection measures
- Evidence collection for forensic analysis
- Strengthen inter-agency coordination – Communication between operational and expert teams
- Support nuclear forensic investigation
- Align national capabilities with international practices

## Verified Capabilities

- Legal and procedural framework
- Operational readiness of first responders – **Improve response to nuclear security incidents**
- Cooperation between field units and laboratories
- Decontamination of personnel and equipment

SUJB plays a key role in the coordination of the activities performed in this field.

# Interagency Response and Investigation for a Nuclear Material or Radioactive Substance Incident



Nuclear material / radioactive substance secured



Protection of responders and public safety



Evidence integrity and chain of custody



Effective interagency cooperation throughout the whole process



State Office  
for Nuclear Safety  
of the Czech Republic

**$^{232}\text{Th}$  Thank  $^{235}\text{U}$  for your attention.**

**Keep It  $^{239}\text{Pu}$  Purposeful!**

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