

Sobolev Oleg

consultant

In Gosatomnadzor since 2013

Education: **Belarusian State University** (1993)

International Sakharov Environmental Institute (1997)

Qualification: **radioecologist**

Trainings: courses and workshops of the **IAEA, European Commission**, fellowships in the regulatory authorities of **Canada** and **Hungary**

Work experience in the field of nuclear and radiation safety: **21 years**

(Komchernobyl, Belarusian branch of the Russian-Belarusian Center for the Problems of the Consequences of the Chernobyl Disaster, Gosatomnadzor)

Fields of activity**:**

- **communications with the media and the public**
- **international cooperation**

Member of the Steering Committee of the Europe and Central Asia Nuclear Safety Network EuCAS

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Regulatory Infrastructure in the Area of Nuclear and Radiation Safety in the Republic of Belarus

Department for Nuclear and Radiation Safety of the Ministry for Emergency Situations of the Republic of Belarus (Gosatomnadzor)

Infrastructure Components



Regulatory Functions Done by Gosatomnadzor

Preparation of regulatory requirements

Organization of Licensing Process & safety review

Supervision

Belarusian NPP
JIPNR – Sosny

About 1 600 organizations
About 24 000 SIR

RW facilities

Participation in EPR System

Fulfillment of international obligations

Communication with the stakeholders, etc.

Legislation Development

Law of the Republic of Belarus "On the Use of Nuclear Energy“

Law of the Republic of Belarus "On Radiation Safety"

Presidential Decree of 5 April 2021 No. 137 “ On regulation of the activities in nuclear energy and ionizing radiation sources use”

establishes a licensing procedure

introduced a separate nuclear law area

Presidential Decree of 16 February 2015 No. 62 signed by Belarus President “ About Supervision…”

establishes requirements for supervision

Legal acts issued by the Government

Technical legal acts, Norms and rules of ensuring nuclear and radiation safety

(37 norms and rules, 13 rules and instructions, 3 guides)

+ possibility to use vendor country technical regulations & guides (143 totally)

Licensing & Safety Review

Licensing Authority: MES, Gosatomnadzor is responsible for preparing documents and grounds for decisions regarding issuing licenses

Legal Basis: Presidential Decree of 5 April 2021 No. 137 “On regulation of the activities in nuclear energy and ionizing radiation sources use”

Gosatomnadzor is obliged to conduct public hearings before issuing licenses for BelNPP

2 main components of licensing process:

Safety Review

Assessment of licensee's compliance to license requirements and conditions

Safety review is organized with external scientific and technical support

Supervision & Enforcement

High-level documents:
Decree of the President of the Republic of Belarus №62 (2015)
Resolution of the Government №133 (2015)

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7 state bodies

14 types of oversight

Complex (Joint) inspection:

- scope: complex assessment of one of the sphere of NPP safety
- participants: representatives of state bodies
- experts from TSO, experts from foreign countries

Inspection in the permanent supervision mode:

- scope: anytime assessment of the any safety issues to prevent violations and avoid their harmful consequences on the future stages of BelNPP operation
- anytime onsite: nuclear&radiation safety (6 inspectors); industrial safety; industrial & civil engineering; fire safety
- time to time onsite: all other types of oversight

Principles

- Risk-oriented, graded approach
- Intention to prevent violations
- Scientific support when necessary

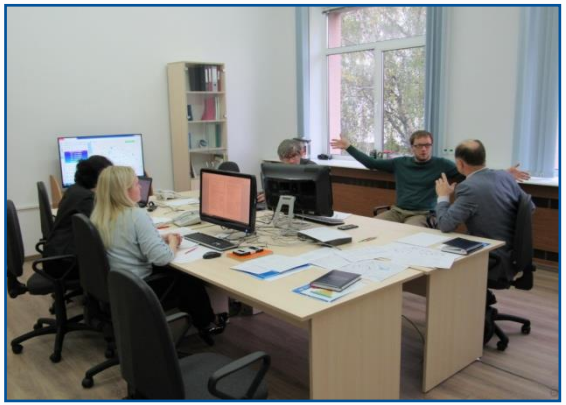
EPR System

Nuclear and radiation emergency response system is a part of republican response system for all natural and man-made emergencies



System of crisis centers created, Information and Analytical Center of Gosatomnadzor (IAC) is a part of the system

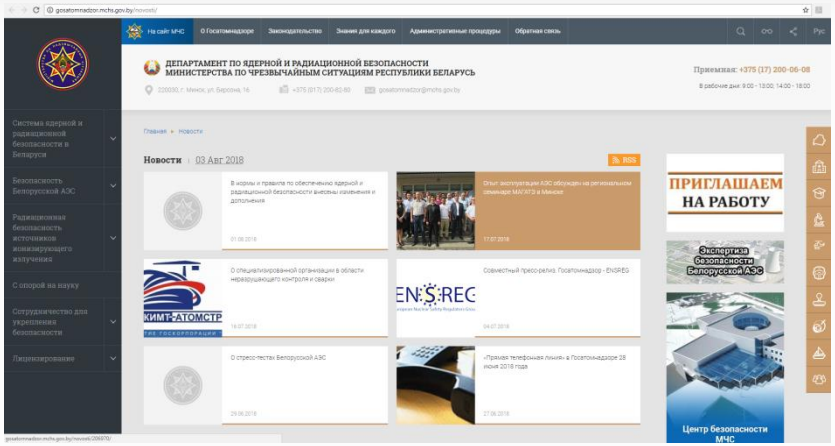
- IAC receives radiation and technological parameters from Belarusian NPP in real time
- Since May 2020 a 24-hour availability of specialists involved into IAC activities has been organized



Emergency drills organized on a regular basis

Communication with Public & Mass Media

- GAN Web-site (about 100 news per year) + information materials + official documents
- Press-events for mass media
- Special project atom.belta.by (about 40 materials per year)
- Annual reviews on status of nuclear and radiation safety provision in Belarus
- Public hearings before taking important regulatory decisions

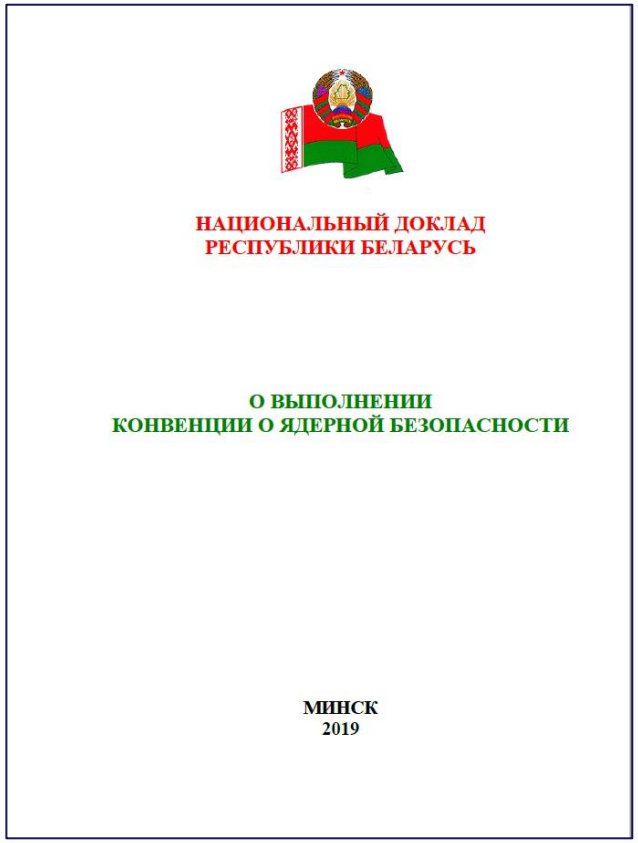




International Obligations

Fulfillment of the international obligations defined by:

- ✓Convention on Nuclear Safety
- ✓Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management
- ✓Agreement between the Republic of Belarus and International Atomic Energy Agency on the application of safeguards in connection with the Treaty on the Non-Proliferation of Nuclear Weapons



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International Cooperation

Bilateral cooperation (12), priority – vendor country

EC technical cooperation projects, including T&T

IAEA (national/regional projects)

RCF (since 2012), Forum WWER (since 2015), WENRA(since 2015), ENSREG (since 2020)

Peer reviews

- Regulatory legal framework development
- Licensing / Review and assessment (incl. training in methodology of the accident analysis codes application: ATHLET, COCOSYS, ASTEC, DYN3D)
- Supervision (NPP systems and equipment, radiation protection of the population)
- Radiation safety and EPR
- Mobile Radiation Monitoring (mobile lab use)
- RW and SF management
- **TSO system development, incl. STC NRC**
- IMS development (incl. Leadership and Safety culture)
- Public information and communication (public hearings preparation)

TSO System development

2012 –

- Resolution of Council of Ministers #33: Joint Institute of Power and Nuclear Research SOSNY is empowered to provide scientific and technical support to MES

2016 –

- Resolution of Government #991 of 02 Dec. 2016 issued “On provision of scientific and technical support to MES”. 16 organizations-participants of TSO system

2017 –

- Creation of Scientific and Technical Center of Nuclear and Radiation Safety in the system of MES (Presidential Decree on this issue adopted in October 2017), 25 staff units

2015 - kick-off working meeting with Belarusian organizations - potential participants of TSO system in Minsk (with Mr. Jacques Repussard participation)

2022 – workshop on technical support for regulation in the area of nuclear and radiation safety

THANK YOU FOR THE ATTENTION

Department for Nuclear and Radiation Safety of the Ministry for Emergency Situations of the Republic of Belarus (Gosatomnadzor)