

Improving Actions to Prevent Major Industrial Accidents

ALEXEY ALESHIN

Chairman

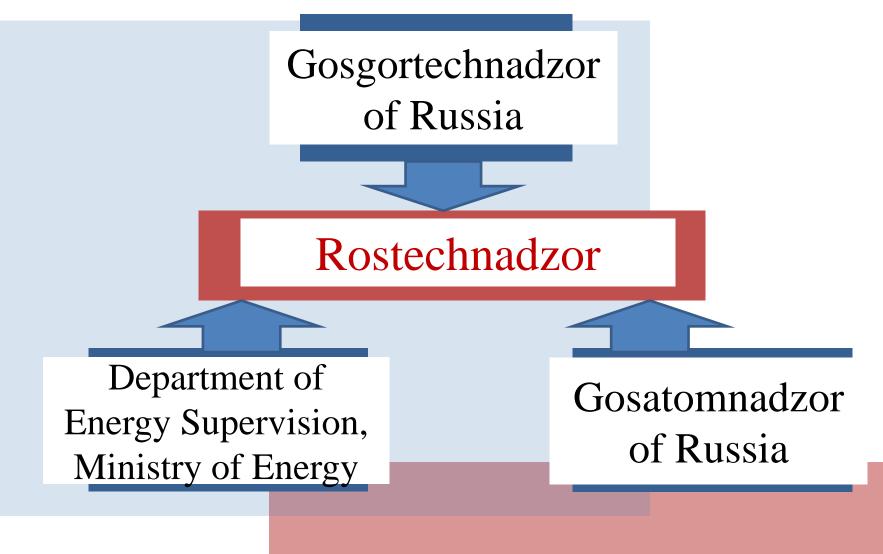
Federal Environmental, Industrial and Nuclear Supervision Service



Structure of Executive Bodies in the Russian Federation









Organizational Chart of Rostechnadzor

Chairperson

Deputy Chairs (7)

15 HQ Departments 660 persons

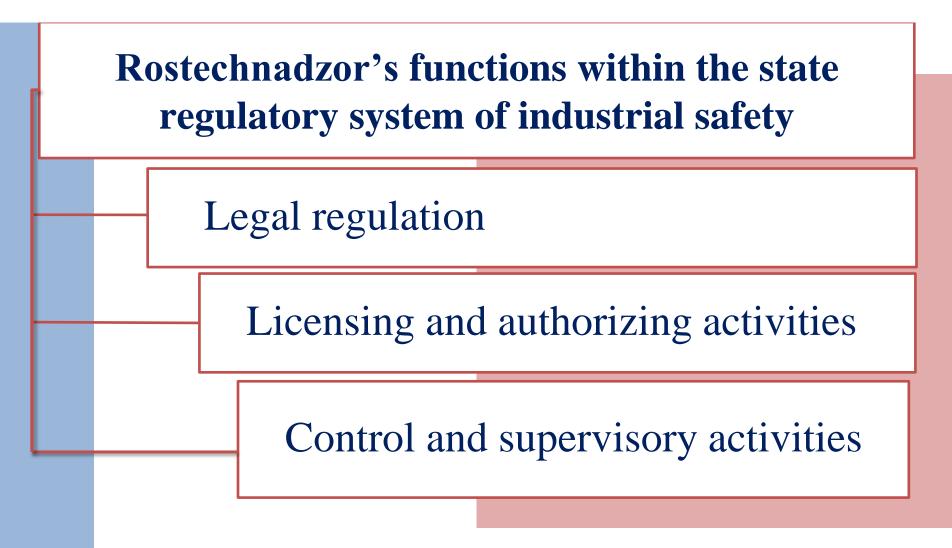
Territorial Departments

6 Interregional Territorial Departments for Supervision of Nuclear and Radiation Safety (942 persons) 23 Territorial Departments for Industrial and Environmental Supervision (6930 persons)

5 Technical Support Organizations

Rostechnadzor's basic mission in industrial safety regulation is

improving the level of protection of vital interests of the individual, society and state against accidents in hazardous production facilities and their consequences.





System of legal regulation in the field of industrial safety



Federal Law of 21.07.1997 № 116-FZ "On Industrial Safety of Hazardous Production Facilities"

Other federal laws:



"On Subsoil", "On State Regulation in the Field of Extraction and Use of Coal, on Specifics of Social Protection of Coal Industry Workers' Organizations", "On Gas Supply in the Russian Federation", the Urban Development Code of the Russian Federation, "On Licensing of Individual Types of Activities", "On Compulsory Civil Liability Insurance of the Owner of a Hazardous Facility for Injury in an accident in the Hazardous Facility" etc



Decrees of the President of the Russian Federation, ordinances and orders of the Government of the Russian Federation



Rostechnadzor acts: federal codes and rules, safety guides Legal basis of industrial safety assurance

Sectoral issues; design, construction; licensing; supervision; insurance; responsibilities

Rules, provisions, authority issues, procedural issues

Technical and organizational requirements for specific types of facilities and activities (rules, instructions); recommendations on implementation of such requirements



Results of Rostechnadzor's rule-making activities in the area of industrial safety regulation

Federal Laws	32 federal laws adopted
Acts of the Government of the Russian Federation	48 acts of the Government of the Russian Federation adopted
Federal Codes and Rules	140 federal codes and rules approved
Safety Guides	122 safety guides approved
	TOTAL: 342 8



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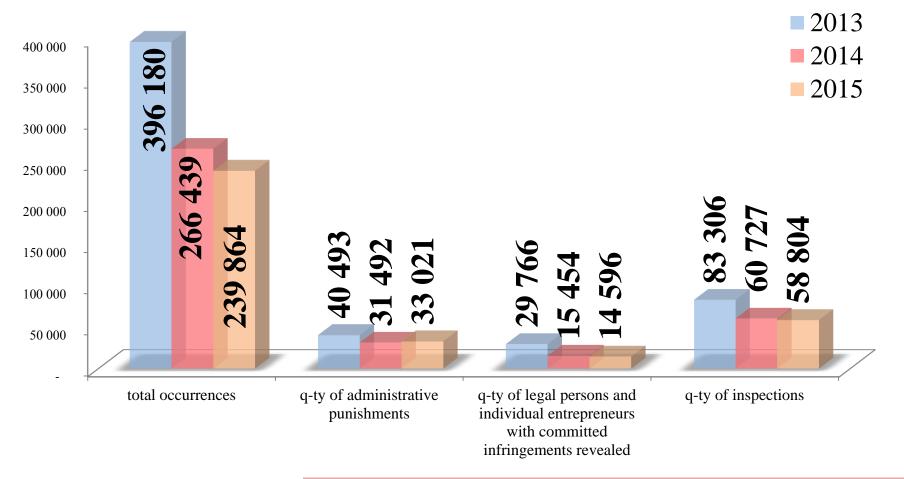
Areas of Rostechnadzor's Regulatory Activities

Supervision of industrial safety	 Oil and gas industry; Chemical and petrochemical industry; Explosive facilities of storage and processing of plant raw material; Lifting constructions; Boiler facilities.
Mining supervision	 Mining industry; Metallurgical industry; Coal Mining Industry.
State energy supervision	 Thermal power plants, heat-generating plants and networks; Hydropower plants and hydraulic engineering structures; Electrical networks; Consumer power plants and energy efficiency and saving.
Federal supervision in the field of nuclear energy (civil facilities)	 Nuclear power plants and research nuclear facilities; Industrial nuclear reactors; Facilities for spent nuclear fuel and radioactive waste; Nuclear power plants of vessels (exception the navy); Radiation hazardous facilities; Manufacturers of equipment for nuclear facilities.
State construction supervision	 Extremely hazardous, technically complex and unique facilities; Facilities of capital construction; Activities of self-regulatory organizations in area of construction.

HAZARD CLASSES OF HAZARDOUS PRODUCTION FACILITIES

	Description	Frequency of inspections	Q-ty of registered HPFs
Hazard Class I	Extremely hazardous facilities	Permanent state supervision regime, scheduled inspection once during a year	2015
Hazard Class II	Highly hazardous facilities	Scheduled inspection once during a year	7639
Hazard Class III	Medium hazardous facilities	Scheduled inspection once every 3 years	89841
Hazard Class IV	Low hazardous facilities	No scheduled inspections	71008

RESULTS OF ROSTECHNADZOR'S INDUSTRIAL SAFETY REGULATORY SUPERVISION IN 2013 TO 2015





Risk-informed Supervision

Static Model

Control and supervisory activities are carried out in accordance with the hazard classes of hazardous production facilities

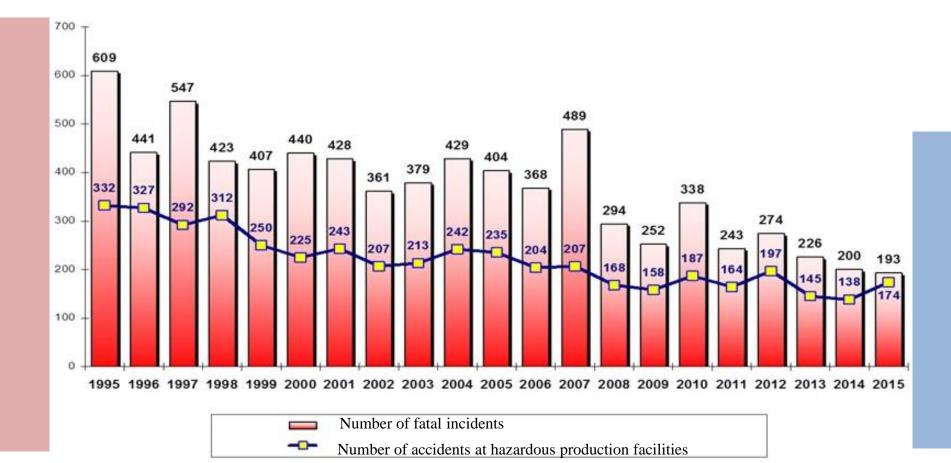
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Dynamic Model

In addition to static model, supervisory and control activities are carried out with due account taken of accident and incident statistics, violations of safety requirements, technical state of a facility, including remote monitoring data



EVOLUTION OF ACCIDENT RATE AND FATALITIES IN HAZARDOUS PRODUCTION FACILITIES IN 1995 TO 2015





International Cooperation

Multilateral cooperation within international organizations and associations:















- International Atomic Energy Agency (IAEA)
- BRICS (Brazil, Russia, India, China, South Africa)
- Organisation for Economic Co-operation and Development (OECD)
- International Organization for Transportation by Rope (O.I.T.A.F.)
- United Nations Economic Commission for Europe (UNECE)
- Organization for Co-operation between Railways (OSJD)
- Arctic Council
- United Nations Industrial Development Organization (UNIDO)
- Interstate Council for Industrial Safety of the CIS
- Commission for Coordination of Cooperation between Governmental Bodies of Energy Supervision of CIS Members States

Bilateral cooperation with industrial safety authorities



Priority tasks to improve industrial safety regulatory system:

- Development of risk-informed supervision tools
- Introduction of remote forms of control, and development of supervisory authorities' consulting function
- □ Formation of public control institutions
- Ensuring continuous revision of safety requirements to keep up with latest technology
- Development of draft Basics of State Policy in the field of industrial safety in the Russian Federation for the period of up to 2025 and beyond
- □ Improvement of certification procedures for HPF managers and staff
- □ Improvement of quality of industrial safety review and competence of persons performing industrial safety review
- Development of international cooperation



THANK YOU FOR YOUR ATTENTION



<u>www.en.gosnadzor.ru</u> (English version of Rostechnadzor official website)