



NUCLEAR ENERGY COMMISSION

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Nuclear Safety in Mongolia

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Status on Nuclear Energy Field

- No Nuclear facilities including RR
- Wide range of nuclear non-power applications
- Substantial uranium resources: Preparatory work for uranium production is in progress.



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International instruments

- Agreement between the IAEA and Government of Mongolia on Methods under the Treaty on the Non-proliferation of Nuclear Weapons /its Protocol, 1972/
- Additional Protocol to Agreement between IAEA and Government of Mongolia on Methods under the Treaty on the Non-proliferation of Nuclear Weapons /2003/
- Convention on the Physical Protection of Nuclear Material /1985/
- Convention on Early Notification of a Nuclear Accident /1987/
- Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency /1987/
- IAEA Incident and Traffic Database /2012/
- IAEA Integrated Nuclear Security Support Plan (2015)



International instruments in consideration

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- Amendment to Convention on the Physical Protection of Nuclear Material (CPPNME);
- Revised Small Quantity Protocol;
- Convention on Nuclear Safety and;
- Joint Convention on the Safety of Spent Fuel management and on the Safety of Radioactive Waste Management.





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Nuclear legal framework

- **National Security Concept of Mongolia /2010/**
- **Mongolia's Sustainable Development Concepts-2030 /2016/**
- **State Policy on Exploitation of Radioactive Minerals and Peaceful Uses of Nuclear Energy /2009/**
- **Nuclear Energy Law /2009/**
- **Law on nuclear weapon free status (2000)**
- **Law on State Inspection (2003)**
- **Law on License (2001)**



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New Regulations:

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- Basic regulation on radiation protection and safety (2016)
- Radiation Safety Standard (2015)
- Regulation on Security of Radiation Sources (2015)
- Radiation Safety Regulation on Exploration of Radioactive Mineral (2015)
- Regulation on Management of Radioactive Waste from Mining and Milling of Ores (2015)
- Regulation on Internal Control of Licensee (2015)
- Technical Regulation for Acid In-situ Leach Uranium Mining (2015)
- Mongolian Integrated Nuclear Security Support Plan (2015)
- **Radiation Safety Regulation for Use of a Fixed Nuclear Gauge (2017)**
- **Radiation Safety Regulation for Use of Portable Nuclear Gauge (2017)**
- **Radiation Safety Regulation for Use of Sealed Sources in Well Logging (2017)**
- Drafted radiation safety regulation for uranium mining and milling





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Regulatory body

- Government of Mongolia restructured the Nuclear Energy Commission (NEC) and formed its Executive Office based on amendment to the Nuclear Energy Law in 2015.
- According the amendment to the law, the Regulatory body has been restructured and transferred to the General Agency for Specialized Inspection /GASI/ as Nuclear and Radiation Inspection Department.





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Nuclear Energy Commission

2.1. Basic duties of NEC

To coordinate activities for implementation of State Policy on Exploitation of Radioactive Minerals and Peaceful use of nuclear energy;

To coordinate activities for ensuring nuclear and radiation protection and safety;

To develop and adopt safety and security regulations, safeguard inspection, licensing for nuclear facilities.



General Agency for Specialized Inspection (GASI)

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The following objectives will be provided to implement main goals of the GASI.

1. To arrange implementation of the Specialized Inspection for the related laws and regulations, supervision policy, planned on the strategic management;

2. To provide the Government Administrative Inspection service to prevent the negative influences of the human health, to live and work in safe healthy environment and to consume good quality products and services, to build favorable business condition and;





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SAFEGUARDS ACTIVITIES

- Mongolia signed Additional Protocol to Safeguards Agreement between the Government of Mongolia and the International Atomic Energy Agency in 12 May 2003.
- Nuclear Energy Commission delivers Mongolian declaration yearly and quarterly to the IAEA according to Additional Protocol.



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Security

National Nuclear Security Support Plan has been approved in 2015.

It contains activities, responsibilities and time frame for the following subjects:

- Legislative and Regulatory Framework
- Prevention
- Detection
- Response
- Sustainability

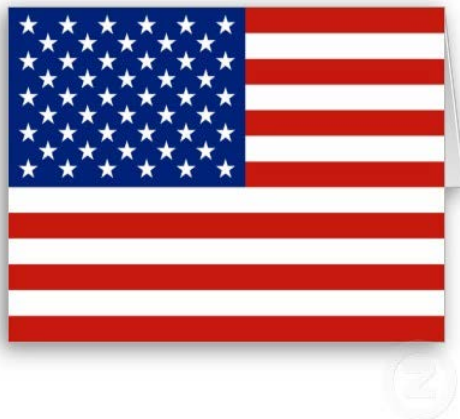


- Sent to the relevant authorities for its implementation.



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Comprehensive Nuclear Security



Cooperation between NEC and DoE:

❖ US-DOE / NNSA under UNSCR 1540

- at **borders** to detect illicit trafficking of radiation source and other radioactive materials (2008)

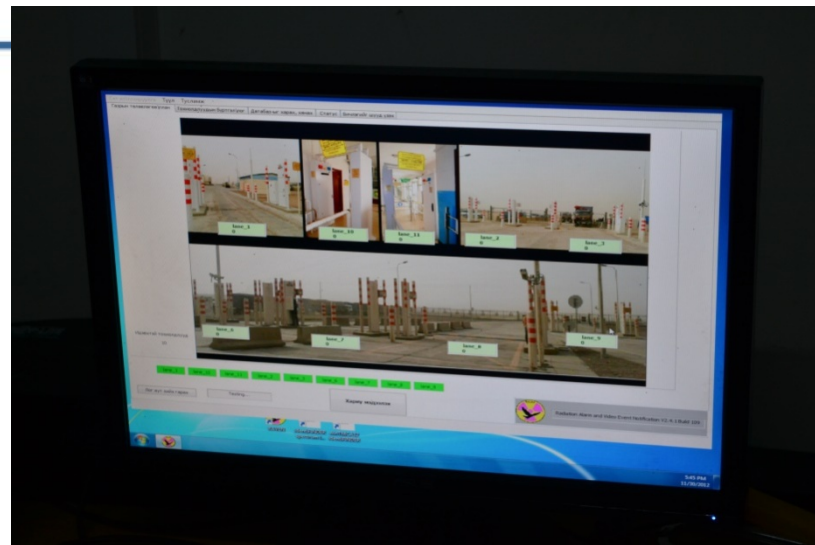
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MONGOLIA





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Emergency response

- All hazard disasters and emergency situations are responded by the National Emergency Management Agency /NEMA/ in coordination with the relevant agencies;
- Nuclear Energy Commission and GASI play a role within a multi-agency response and providing technical advisor in the case of nuclear and radiological emergency.





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THANK YOU FOR YOUR ATTENTION



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