



**MINISTRY OF ENVIRONMENT OF THE REPUBLIC OF
LITHUANIA**

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To: SE Ignalina Nuclear Power Plant

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**DECISION RE IGNALINA NUCLEAR POWER PLANT SOLID WASTE MANAGEMENT
AND STORAGE FACILITIES CONSTRUCTION IN THE VIEW OF ENVIRONMENTAL
IMPACT PERMISSIBILITY**

The planned economic activity Client – SE Ignalina Nuclear Power Plant, Ignalina NPP, Drūkšinių village, LT-31500 Visaginas, tel. (8 386) 24367.

Developer of Environmental Impact Assessment documents – Nuclear Engineering Problems Laboratory of Lithuanian Institute of Energy, Breslaujos st. 3, LT-44403 Kaunas, tel. (8 37) 401891; GNS–RWE NUKEM Consortium, Industriestr. 13, 63754 Alzenau, Germany, tel. (+490) 6023911451.

Name of the planned economic activity – Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction.

Location of the planned economic activity – Utena district, Visaginas municipality, Ignalina Nuclear Power Plant territory.

Description of the planned economic activity.

Planned Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities will be intended for retrieval, sorting, transportation, treatment, packing, characterization and storage of short-lived and long-lived solid radioactive waste and combustible liquid (oils) radioactive waste. These facilities will consist of the Solid Radioactive Waste Retrieval Facilities (hereafter – Waste Retrieval Facilities), the construction of which is planned nearby the existing buildings of solid radioactive waste storage and Solid Waste Management and Storage Facilities, which will be constructed next to the planned new Interim Spent Fuel Storage Facility.

In the Waste Retrieval Facilities solid radioactive waste being stored on the Ignalina Nuclear Power Plant territory at present will be retrieved, sorted (waste, the disposal of which is permissible in the planned repository for very low-active waste, will be separated) and packed. Waste from the Waste Retrieval Facilities, waste generated during Unit 2 operation and during Ignalina Nuclear Power Plant decommissioning will be transported to the Waste Management and Storage Facilities by the lorries in transport casks using the newly arranged fenced road. Brought radioactive waste will be sorted in different sorting chambers taking into account their radiological properties. After sorting the waste will be reduced, prepared for the further treatment and processing: for incineration, compressing and (or) cementation in special devices. The radioactive waste placed into the casks after processing will be transported to the interim storage facility for short-lived radioactive waste (Class B and C radioactive waste) and to the interim storage facility for long-lived waste (Class D radioactive waste (graphite), E (scrap metal of high activity) and F (spent closed sources)). The waste can be stored in these storage facilities up to 50 years and, if necessary, the storage facilities can be expanded.

Description of measures foreseen for negative environmental impact prevention, reduction, compensation or elimination of its consequences.

A new fenced road for lorries will be built for transportation of casks to the Solid Waste Management and Storage Facilities.

In order to avoid radionuclides ingress into environment, the water used for the controlled area shower rooms, for sanitary cleaning, for installations and casks decontamination will be collected in the special water collection tanks. Radiation control of this water will be performed. Depending on the control results, the water will be pumped over into a special cask for transportation of liquid radioactive waste and forwarded for processing to the Ignalina Nuclear Power Plant Liquid Radioactive Waste Treatment Facilities or dropped into a sewage collection system. Liquid radioactive waste will not be discharged into environment.

The sewage will be collected from the observation area shower rooms and toilets. Collected sewage will be forwarded to the existing at Ignalina Nuclear Power Plant Sewage Collection System and from there it will be pumped over into sewage purification installations located outside Ignalina Nuclear Power Plant territory.

Three-level gas filters system will be installed for reduction of radionuclides release from the Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities into environmental air. Primary filtration will retain large particles. Secondary filtration (main) will retain radioactive aerosols, and tertiary filtration will ensure safety in the case of an accident, breakage or damage on the main filter. Radionuclides release into environmental air will be possible only if the permission is available and if it does not exceed the established levels.

Monitoring of the Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities environment will be performed.

The highest annual effective radiation dose to public, which is received because of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities operation, including the impact of other nuclear power facilities operating in Ignalina Nuclear Power Plant sanitary protection area and of facilities planned to be constructed in the future, will not exceed the limit of the annual effective dose to public (0,2 mSv).

It is suggested to have a 500 m sanitary protection area for the Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities site.

The surface water drainage system will be connected to the existing Nuclear Power Plant underground storm and industrial drainage system.

Submitted Conclusions Regarding Environmental Impact Assessment:

Administration of the Head of Utena district approved the Environmental Impact Assessment Report with a comment by letter No. (1.50.)-6-1431 dated 2007-08-31.

Visaginas municipality Mayor approved the Environmental Impact Assessment Report by letter No. (4.17)-1-2287 dated 2007-08-09.

State Nuclear Power Safety Inspectorate approved the Environmental Impact Assessment Report by letter No. (12.5.17)-22.1-896 dated 2007-11-23.

Utena Territorial Subdivision of the Cultural Heritage Department under the Ministry of Culture approved the Environmental Impact Assessment Report by letter No. 2U-(1.29)-456 dated 2007-10-03.

Fire and Rescue Department under the Ministry of the Interior approved the Environmental Impact Assessment Report by letter No. 9.4-3064 dated 2007-09-27.

Ministry of Health approved the Environmental Impact Assessment Report and possibility of Ignalina Nuclear Power Plant Solid Waste Management Facilities construction at the site selected by the activity Client by letter No. 10-6875 dated 2007-12-11 and by letter No.10-7025 dated 2007-12-17.

Submitted assessment argued by public motivated proposals.

It was published about the started Environmental Impact Assessment of the planned Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction in the following newspapers: "Lietuvos rytas" 2006-05-03, "Nauja vaga" 2006-05-03, "Sugardas" 2006-05-04.

The public was informed about possibility to familiarize with the Environmental Impact Assessment Report and about its planned open presentation in the following newspapers: "Lietuvos rytas" 2007-05-16, "Nauja vaga" 2007-05-19, "Zarasų kraštas" 2007-05-22, "Sugardas" 2007-05-17.

Open presentation of Environmental Impact Assessment Report took place at Visaginas municipality on 2007-06-01. No public proposals regarding Environmental Impact Assessment of the planned construction of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities were received either before the open presentation or after it. During the meeting, the planned economic activity and Environmental Impact Assessment Report were presented, the Environmental Impact Assessment results and conclusions were announced, and the questions of the meeting participants were answered.

International consultation.

Following the regulations of UNO Convention on Environmental Impact Assessment in a Transboundary Context (Espoo), the international Environmental Impact Assessment of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction has been carried out.

2006-07-26, Ministry of Environment informed the Republic of Latvia (Espoo Convention country) about Environmental Impact Assessment of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction by submitting information about the planned economic activity in the written form and attaching Environmental Impact Assessment Programme in the English, Russian, and Lithuanian languages for Ministry of Environment of the Republic of Latvia. 2006-08-15 the Ministry of Environment of the Republic of Latvia submitted their proposals and comments regarding Environmental Impact Assessment Programme.

2008-03-13 in Daugavpils, the Environmental Impact Assessment Report presentation to the public of the Republic of Latvia took place. 2007-04-11 the Ministry of Environment of the Republic of Latvia presented comments and proposals for Environmental Impact Assessment Report, taking into consideration the opinion of other institutions and public of the country.

2008-06-04 in Vilnius, the international conference (consultations) with the Ministry of Environment of the Republic of Latvia and with the experts of the Radiation Protection Center of the Republic of Latvia was organized. During the conference, the submitted comments were discussed.

2006-07-26, the Ministry of Environment informed in the written form the Republic of Belarus (Espoo Convention country) about Environmental Impact Assessment of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction, by submitting information about the planned economic activity in the written form and attaching Environmental Impact Assessment Programme in the Russian and English languages for the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus. The above mentioned Ministry submitted their comments to Environmental Impact Assessment Programme on 2006-08-31.

2008-05-14 in Vidzy, the Environmental Impact Assessment Report presentation to the public of the Republic of Belarus took place. 2008-05-27, the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus submitted their comments to Environmental Impact Assessment Report, taking into consideration the opinion of the scientific institutions and public of the country, and sent the Minutes of open presentation with suggestions of the open presentation participants.

2008-06-06 in Vilnius, the international conference (consultations) with the experts of the interested state institutions of the Republic of Belarus took place. During the conference, the submitted comments were discussed.

Specialists of the responsible institutions, who analyzed Environmental Impact Assessment documentation:

Džiugas Anuškevičius, the Principal Specialist of the Protected Areas Strategy Division of the Nature Conservancy Department of the Ministry of Environment, tel. (8 5) 266 3549;

Vitalijus Auglys, the Manager of the Environmental Impact Assessment Division of the Ministry of Environment, tel. (8 5) 266 3651;

Raimondas Bogdevičius, the Principal Specialist of the Contaminated and Polluted Areas and Waste Division of the Environmental Quality Department of the Ministry of Environment (8 5) 266 3520;

Tatjana Bulavskaja, the Principal Specialist of the Water Division of the Environmental Quality Department of the Ministry of Environment (8 5) 266 3518;

Renata Gagienė, the Principal Specialist of the Atmosphere Division of the Environmental Quality Department of the Ministry of Environment, tel. (8 5) 266 3507;

Daiva Kisielienė, the Principal Specialist of the Environmental Impact Assessment and Standards Division of the Utena Region Environmental Protection Department, tel. (8 389) 69369;

Miglė Masaitytė, the Principal Specialist of the Environmental Impact Assessment Division of the Ministry of Environment, tel. (8 5) 266 3654;

Beata Vilimaitė-Šilobritienė, the Manager of the Radiology Division of the Environmental Research Department of the Environmental Protection Agency, tel. (8 5) 275 0474;

Dalia Židonytė, the Principal Specialist of the Environmental Impact Assessment Division of the Ministry of Environment, tel. (8 5) 266 3645.

Comments, suggestions.

During designing of Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities, the intention should be that public irradiation would be as low as possible and, taking into consideration impact of the nuclear power facilities which are located nearby and are planned in the future, would not exceed the limit of the annual effective radiation dose to public – 0,2 mSv.

During preparation of the Basic Design for the Solid Waste Management and Storage Facilities, it is should be envisaged that environment monitoring measures would also take into consideration necessity of environment monitoring in the neighbor countries.

The decision.

Ignalina Nuclear Power Plant Solid Waste Management and Storage Facilities construction under the provided Environmental Impact Assessment Report is permitted.

Secretary of the Ministry of Environment

dr. Aleksandras Spruogis