

**NOTIFICATION TO AN AFFECTED PARTY OF A PROPOSED ACTIVITY UNDER
ARTICLE 3 OF THE CONVENTION FOR EIA REPORT IN THE
TRANSBOUNDARY CONTEX**

1. INFORMATION ON THE PROPOSED ACTIVITY	
(i) Information on the nature of the proposed activity	
Type of activity proposed	Lifetime Extension of Units 5&6 at Kozloduy NPP
Is the proposed activity listed in Appendix I to the Convention?	No
Scale of activity proposed (e.g. main activity and any/all peripheral activities requiring assessment)	<p>Renewal of the operational licences for Units 5&6 after the end of their design lifetime in compliance with the legal and regulatory framework of the Republic of Bulgaria. For the purpose it is necessary to:</p> <ul style="list-style-type: none"> - carry out a comprehensive study of the equipment to assess the rest lifetime of the structures, systems and components (SSCs) which will be in operation and the required SSCs which should be replaced by new ones; - identification and performance of the required technical and organizational measures resulting from the outcome of the comprehensive study and assessment of the rest lifetime of the equipment; - justification of the new operational lifetime.
Scale of activity proposed (e.g. size, production capacity, etc.)	Continuation of the production of electricity and thermal energy with using the water moderated type (WWER-1000/B-320) nuclear energy reactors
Description of proposed activity (e.g. technology used)	<ul style="list-style-type: none"> - replacement of SSC Equipment; - modernization and reconstruction of SSCs; - performance of additional analyses and quantitative assessment of the rest lifetime; - activities in the frames of the maintenance and repair of the facilities; - management of the lifetime characteristics through changing the operational modes in the period of the extended operation. <p>The activities in the investment proposal include mainly modernization / replacement of the same type of equipment and settings of a part of the reactor installation related equipment. Design changes of the reactor installation are not expected. All modernizations /modification of structures, systems and components will be performed after the relevant regulatory permits have been issued.</p>

Description of the purpose of proposed activity	Lifetime Extension of Units 5&6 at Kozloduy NPP
Rationale for proposed activity (e.g. socio-economic, physical geographic basis)	The goals set in the energy strategy of the Republic of Bulgaria to sustain and increase the share of the nuclear energy in the country through maximal extension of the operational lifetime of Units 5&6 at Kozloduy NPP. The end of the design lifetime of Units 5&6 of Kozloduy NPP and performance of the regulatory requirements related to the lifetime extension.
Additional information/comments	None
(ii) Information on the spatial and temporal boundaries of the proposed activity	
Location	The investment proposal will be implemented within the site of Kozloduy NPP (landed property No. 218 on the map of the restored property of the village of Harlets, Kozloduy Municipality, Vratsa Region) and it is not planned to use these lands beyond there borders. The site of Kozloduy NPP is located on the right bank (694 km) of the Danube River. It is located at 3.7 km to the south of the midstream of the river and state boundary with the Republic of Romania.
Description of the location (e.g. physical-geographic, socio-economic characteristics)	The site is located in the northern part of the non-flooded terrace of the Danube River (elevation +35.0 m according to the Baltic Altitude System) and has an area of 447,1712ha. To the north, the site borders the Danube lowland. The slope of the watershed plateau, which is to the south of the site, is relatively high (100 – 110 m), reaching approximately 90 m to the west, being lower to the east and going down to 30 m above the sea level. The capital of Sofia is situated at a distance of approximately 120 km to the north in a straight line, and via the national network of approximately 200 km. The closest settlements to Kozloduy NPP are: the town of Kozloduy, which is 2.6 km to the north-west of the plant, the village of Harlets, which is 3.5 km to the south-east of the plant, the village of Glozhene, which is 4.0km to the south-east of the plant, the town of Mizia, which is 6.0 km to the south-east of the plant, the village of Butan, which is 8.4 km to the south of the plant and the town of Oryahovo, which is 8.4 km to the east of the plant.
Rationale for location of proposed activity (e.g. socio-economic, physical geographic basis)	The investment proposal refers to the already constructed and commissioned facilities of a preliminary selected and licensed site.

Time-frame for proposed activity (e.g. start and duration of construction and operation)	It is planned that the activities related to the preparation for extended operation to be completed by 2016 for Unit 5 and by 2018 for Unit 6 correspondingly. The expected operational lifetime is up to 30 years after the end of the design lifetime of the units.
Maps and other pictorial documents connected with the information on the proposed activity	A map of the location of the site of Kozloduy NPP is attached.
Additional information/comments	None
(iii) Information on expected environmental impacts and proposed mitigation measures	
Scope of assessment (e.g. consideration of: cumulative impacts, evaluation of alternatives, sustainable development issues, impact of peripheral activities, etc.)	The radioecological monitoring performed at Kozloduy NPP covers all main components of the environment (air, waters, soils, vegetation, milk, fish, agricultural crops, etc.) in the radius of 100 km surrounding the plant within the territory of Bulgaria. The scope and the extent of the radiological monitoring as well as controlled parameters are established in the a long-term programme which is coordinated with the national controlling and surveillance authorities - Nuclear Regulatory Agency, National Centre for Radiobiology and Radiation Protection for Ministry of Health and Executive Environmental Agency for Ministry of the Environment and Waters. The programme fully complies to the national and European regulatory requirements in the field including Article 25 of EVRATOM Contract, Recommendations of EC 2000/473/EVRATOM и 2004/2/EVRATOM The results of the radiation indicators of the analysed samples from the plant environment are within the typical for the region background levels. A negative impact of the operation of the nuclear power plant has not be identified. The recorded levels of man-induced activity are several times below the allowable limits for the corresponding indicators and sites. The radiation background is fully favourable. The results of the company radiation monitoring are verified with independent radioecological studies according to the programmes of the National Centre for Radiobiology and Radiation Protection and Ministry of the Environment and Waters.
Expected environmental impacts of proposed activity (e.g. types, locations, magnitudes)	During and after the implementation of the Investment Proposal change in the aspects of impact of Kozloduy NPP on the environment and their qualitative values, thus there will be no change in the level of impact of the nuclear power plant on the environment components. The results of environmental radiological monitoring of many years have shown that the recorded levels of man-induced activity are several times below the allowable limits for the corresponding indicators and sites.

<p>Inputs (e.g. raw material, power sources, etc.)</p>	<p>During the performance of the activities for preparation of the extended operation it is expected to provide supplies and services as established in the regulatory framework regime with the corresponding financial and time resource.</p> <p>The activities planned in the investment proposal include mainly modernization / replacement of the similar same type of equipment and adjustments of some of the reactor installation related equipment. Design changes of the reactor installation are not expected. The investment proposal is not connected to changes of the process diagrams and processes, as well as increase of the applied nuclear fuel. No construction activities will be performed. Construction of new facilities for water use and discharge of the waste waters is not expected. Construction of new facilities for waste treatment is not expected.</p>
<p>The output data (for example amounts and types of emission into the atmosphere, discharges to the water system, solid waste)</p>	<p>At the stage of preparation for extended operation of the units, generation of an insignificant amount of waste resulting from the replacement or modernization of the equipment (mechanical, electrical, I&C, etc.) is expected.</p> <p>For extended operation of Units 5&6 of Kozloduy NPP , change in the amount of non-radioactive and radioactive waste (solid and liquid) as well as gas and liquid emissions (non-radioactive and radioactive) generated so far is not expected. This is determined by the fact that during extension of the operational lifetime of units, change in the main process diagrams and processes as well as increase in the amount of nuclear fuel is not expected.</p> <p>The implementation of the investment proposal is not connected to the usage of the natural resources in amounts larger than those currently used.</p>
<p>Transboundary impacts (e.g. types, locations, magnitudes)</p>	<p>No transboundary impact is expected.</p>
<p>Proposed mitigation measures (e.g. if known, mitigation measures to prevent, mitigate, minimize, compensate for environmental effects)</p>	<p>All activities during the operation of the units are performed in compliance with the regulatory requirements, internal rules of Kozloduy NPP and good practices in the nuclear industry. The nuclear facilities are operated in compliance with the modern standards, criteria and international experience in the nuclear power. Therefore, organizational and technical measures providing effective protection of the personnel, population and environments against harmful impact of ionizing radiation are provided.</p>