



**REPUBLIC OF BULGARIA**

**MINISTRY OF ENVIRONMENT AND WATER  
MINISTER**

OB00-220  
27 July 2012

**Subject:** *Notification for investment proposal "Construction of a new latest generation nuclear unit at Kozloduy NPP site"*

**Dear Ms Plumb,**

*Pursuant to Art. 3 of the Convention on EIA in a transboundary context, please find enclosed a notification to an affected party for investment proposal "Construction of a new latest generation nuclear unit at Kozloduy NPP site".*

*Please note that the deadline for response under Art. 3, paragraph 3 of the Convention is three weeks from the date of receipt of this letter.*

*I am taking the opportunity to express our readiness to continue our fruitful cooperation.*

**Enclosure:** Notification

**Sincerely Yours,**

**Nona Karadjova**

**Ms Rovana PLUMB**  
*Minister of Environment and Forestry  
b-dul Libertatii nr. 12, sector 5  
RO-040129  
Bucharest, ROMANIA*



## NOTIFICATION

**TO AN AFFECTED PARTY OF A PROPOSED ACTIVITY UNDER ARTICLE 3 OF  
THE CONVENTION ON ENVIRONMENTAL IMPACT ASSESSMENT IN A  
TRANSBOUNDARY CONTEXT**

**ABOUT**

**CONSTRUCTION OF ONE NEW LATEST GENERATION NUCLEAR UNIT IN  
THE REPUBLIC OF BULGARIA**

<b>1. INFORMATION ON THE PROPOSED ACTIVITY</b>	
<b>(i) Information on the nature of the proposed activity</b>	
Type of activity proposed	Electricity production in nuclear power plant.
Is the proposed activity listed in Appendix I to the Convention?	Yes.
Scope of proposed activity (e.g. main activity and any/all peripheral activities requiring assessment)	Main activity: Construction, commissioning and operation of one new nuclear unit; Peripheral activities: Temporary storage of radioactive waste and spent fuel.
Scale of proposed activity (e.g. size, production capacity, etc.)	One unit of approximately 1200 MW (el.).
Description of proposed activity (e.g. technology used)	Proposed technologies are pressurized light water reactor, working with water as coolant and moderator (PWR). The reactor will use enriched uranium as a fuel.
Description of purpose of proposed activity	Securing the energy balance through a new base build.
Rationale for proposed activity (e.g. socio-economic, physical geographic basis)	Construction of replacement power capacities in the Republic of Bulgaria included in the National Energy Strategy of the country.
Additional information/comments	
<b>(ii) Information on the spatial and temporal boundaries of the proposed activity</b>	
Location+	The site is located at the 694th kilometre along the Danube River, 3.7 km to the South of the river bed, and on the state boundary with the Republic of Romania.
Description of the location (e.g. physical-geographic, socio-economic characteristics)	The region of the site is located in the northern part of the first non-floodable terrace of the Danube river. The Kozloduy site is situated on a plain, with an average altitude varying from +28.00 m to +36.00 m according to the Baltic altitude system. The lowland and the site are protected from the Danube River by means of a dyke which reaches an absolute elevation of +30.40 m.

	<p>Within 30km around the KNPP site the are located:</p> <ul style="list-style-type: none"> <li>- Numerous settlements amongst which the following administrative centres of the municipalities on the territory of Bulgaria: Kozloduy, Vulchedrum, Hayredin, Miziya, Lom, Byala Slatina, Oryahovo.</li> <li>- About 23 communities on the territory of Romania – Bechet, Nedeia, Gighera, Zăval, Ostroveni, Sărata, Călărași, Dăbuleni, Lișteava, Piscu Sadovei, Sadova, Gângiova, Măcedu de Jos, Măcedu de Sus, Săpata, Plosca, Bistret, Brândușa, Goicea, Bârca, Horezu Poenari, Toceni, Valea Stanciului.</li> </ul>
Rationale for location of proposed activity (e.g. socio-economic, physical-geographic basis)	Kozloduy NPP site was chosen for the construction of the new nuclear power unit since this is a licensed nuclear site with built infrastructure for electrical supply and service water supply, as well as for the availability of experienced and highly qualified staff.
Time-frame for proposed activity (e.g. start and duration of construction and operation)	The time foreseen for the preparation, construction and commissioning of the new facility is 145 months within the period 2012-2023. The expected operational lifetime of the new facility is 60 years – 2023-2083.
Maps and other pictorial documents connected with the information on the proposed activity	A geographic map with the location of the site for new nuclear power unit is enclosed.
Additional information/comments	
<b>(iii) Information on expected environmental impacts and proposed mitigation measures</b>	
Scope of assessment (e.g. consideration of: cumulative impacts, evaluation of alternatives, sustainable development issues, impact of peripheral activities, etc.)	<p>Assessment of impact on soils, water, vegetation, air including radiation impact and impact on the human health which is a subject for consideration in the EIA report. The EIA report will be elaborated according to the requirements of the Bulgarian Environmental Protection Act/2002 which introduces the requirements of the relevant EC Directives; the Regulation for the conditions and the order for performing an EIA/2003 and the ToR for EIA.</p> <p>Also, the report will include assessment of the cumulative impacts of all nuclear facilities on site.</p>
Expected environmental impacts of proposed activity (e.g. types, locations, magnitudes)	<p>Radiation and non-radiation impacts on soils, water and air:</p> <ul style="list-style-type: none"> <li>• inessential thermal and chemical pollution of cooling circulation waters to be discharged into the Danube river;</li> <li>• potential soils pollution by radioactive nuclides, fuels and chemicals in emergency situations;</li> <li>• controlled discharges of radioactive nuclides and aerosols into the atmosphere.</li> </ul> <p>Potential sources of noise and vibration:</p> <ul style="list-style-type: none"> <li>• building of the site.</li> </ul> <p>Potential sources of pollution for aquatic and terrestrial ecosystems:</p> <ul style="list-style-type: none"> <li>• contaminant accumulation from spills of fuels and</li> </ul>

	<p>chemicals;</p> <ul style="list-style-type: none"> <li>radiological impact from radioactive nuclides produced during operation and RAW management.</li> </ul> <p>Expected environmental impacts will be analysed within the EIA Report.</p>
Inputs (e.g. raw material, power sources, etc.)	The reactor will use enriched uranium as a fuel.
Outputs (e.g. amounts and types of: emissions into the atmosphere, discharges into the water system, solid waste)	<p>All outputs:</p> <ul style="list-style-type: none"> <li>controlled emissions of radioactive products into the atmosphere;</li> <li>controlled discharges of radioactive waste waters;</li> <li>radioactive solid waste;</li> <li>dangerous, toxic substances and materials,</li> </ul> <p>will be in accordance with our legislation in area of safe use of nuclear energy, environmental protection and the standards and regulations of IAEA..</p> <p>The cumulative effect of simultaneous operation of the all nuclear facilities on site will be recorded (with sufficient margins) within the limits allowed by the applicable national and international norms.</p>
Transboundary impacts (e.g. types, locations, magnitudes)	No transboundary environmental impacts are expected in normal operation.
Proposed mitigation measures (e.g. if known, mitigation measures to prevent, eliminate, minimize, compensate for environmental effects)	Yes - observance of national and international standards and documents (of IAEA). They will be specified in the EIA report.
Additional information/comments	No
<b>(iv) Proponent/developer</b>	
Name, address, telephone and fax numbers	<p>LUBEN MARINOV Executive Director "KOZLODUY NPP – NEW BUILDS" PLC 3321 Kozloduy, Bulgaria Tel. +359 973 7 2104 Fax: +359 973 7 2422 E-mail: newbuild@npp.bg</p>
<b>(v) EIA documentation</b>	
Is the EIA documentation (e.g. EIA report or EIS) included in the notification?	No
If no/partial, description of additional documentation to be forwarded and (approximate) date(s) when documentation will be available	ToR for EIA will be available approximately by the end of 2012. EIA report will be available approximately in the end of 2014.
Additional information/ comments	No

<b>2. POINTS OF CONTACT</b>	
<b>(i) Points of contact for the possible affected Party or Parties</b>	
Authority responsible for coordinating activities relating to the EIA (refer to decision I/3, appendix) - Name, address, telephone and fax numbers	Ministry of Environment and Water 22 Maria Louiza Blvd. Sofia, 1000 Bulgaria Fax: +359 2 986 25 33
List of affected Parties to which notification is being sent	Romania
<b>(ii) Points of contact for the Party of origin</b>	
Authority responsible for coordinating activities relating to the EIA (refer to decision I/3, appendix) - Name, address, telephone and fax numbers	Ministry of Environment and Water 22 Maria Louiza Blvd. Sofia, 1000 Bulgaria Fax: +359 2 986 25 33
Decision-making authority if different than authority responsible for coordinating activities relating to the EIA - Name, address, telephone and fax numbers	Ministry of Environment and Water 22 Maria Louiza Blvd. Sofia, 1000 Bulgaria Fax: +359 2 986 25 33
<b>3. INFORMATION ON THE EIA PROCESS IN THE COUNTRY WHERE THE PROPOSED ACTIVITY IS LOCATED</b>	
<b>(i) Information on the EIA process that will be applied to the proposed activity</b>	
Time schedule	26 months
Opportunities for the affected Party or Parties to be involved in the EIA process	Yes
Opportunities for the affected Party or Parties to review and comment on the notification and the EIA documentation	Yes
Nature and timing of the possible decision	Beginning of 2015 for the final decision
Process for approval of the proposed activity	In accordance with the Bulgarian legislation - Energy Act/2003, Act of Safe Use of Atomic Energy/2002, Environmental Protection Act/2002, Spatial Development Act/2001
Additional information/comments	Additional information on the national EIA procedure can be found on the internet site of the Ministry of Environment and Water: <a href="http://www3.moew.government.bg">www3.moew.government.bg</a>
<b>4. INFORMATION ON THE PUBLIC PARTICIPATION PROCESS IN THE COUNTRY OF ORIGIN</b>	
Public participation procedures	In accordance with the Bulgarian Environmental Protection Act/2002 and its sub legislative acts - Public participation during

	the consultations; public discussion with a 1 month access to the EIA report and an opportunity for submitting positions in writing
Expected start and duration of public consultation	2 months: January - February 2015 for public hearings on the EIA report.
Additional information/comments	-
<b>5. DEADLINE FOR RESPONSE</b>	
Date	4 weeks from date of receiving the notification.

# New Nuclear Unit Site Location Map

