



July, 2009

Construction permit, Výst. 2010/86 of 23rd 1.1987

ANNEX 0.1



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CONSTRUCTION PERMIT

The building owner, EMO – Nuclear Power Plant, the concern, Branch Office Pražská 29, Bratislava asked on 24 September 1986 for awarding construction permit for the construction

“Mochovce Nuclear Power Plant, WWER 4x440 MW, Construction 3”.

Location of this power plant was approved by the Building Office decision issued on 22 October 1980 with the number Výst.3865/80, which was amended by the decision issued on 10 July 1981 with the number Výst.2044/81 and Výst.3818/81 dated 28 January 1982.

Local Department of Construction and Urban Planning as a building office authorised by the Urban Planning Department of the Regional National Committee in Western Slovakia in Bratislava by the decision No. ÚP 416/1980-1982/Zš dated 1 September 1982 discussed the application in the building permission proceedings with affected state administration authorities and with the proceeding participants.

The Building Office viewed the application according to §62 of the Act No. 50/1976 Coll. (Building Law) and decided as follows:

The Construction

Mochovce Nuclear Power Plant, WWER 4x440 MW, Construction 3

consisting of the following civil structures:

- 1) 330/1-01 Fence – Part II
- 2) 330/1-02 Power plant area landscaping – Part II
- 3) 330/1-03 Landscaping except fence area
- 4) 331/1-01 Mochovce village recultivation
- 5) 331/1-02 Alternative recultivation
- 6) 332/1-01 Mochovce village landscaping
- 7) 340/1-02 External lighting – Part II
- 8) 350/1-02 Trenches and channels for high current cables – Part II
- 9) 351/1-02 High current cable routing – Part II

- 10) 352/1-02 Trenches and channels for light current cables – Part II
- 11) 353/1-02 Main earthing network - Part II
- 12) 383/1-02 Hot water network on power plant area - Part II
- 13) 400/1-03 Pipe laying on ± 0.0 - construction works Part II
- 14) 400/1-04 Basement and encasing of the pipe bridge between the Auxiliary nuclear building and RAW
- 15) 401/1-02 Pipe channels - Part II
- 16) 442/1-02 Dieselgenerator station for Power Block II
- 17) 442/1-04 High-pressure air compressed station for Power Block II
- 18) 442/1-06 Lube oil system of DGS II
- 19) 490/1-02 Turbine hall of Power Block II
- 20) 490/1-04 TG basement / Unit 3 (31, 32, 41, 42)
- 21) 510/1-02 Unit 1 Power block transformer basements
- 22) 522/1-02 100 and 400 kV external substation within Power Block II
- 23) 566/1-02 Fuel oil discharging – DGS II
- 24) 566/1-04 Oil discharging
- 25) 568/1-02 Fuel oil system – DGS II
- 26) 622/1-02 Railways crossing basement - Power Block II transformer
- 27) 800/1-02 Reactor building – Power Block II
- 28) 801/1-02 Auxiliary nuclear building – Power Block II
- 29) 802/1-03 Bridge between Power Block II and Auxiliary nuclear building II
- 30) 802/1-04 Bridge between Power Block I and Power Block II
- 31) 803/1-02 Ventilation stack – Power Block II
- 32) 804/1-02 Air ducts to stack - Power Block II
- 33) 805/1-02 Lengthwise electrical equipment area - Power Block II
- 34) 806/1-03 Cross electrical equipment area at Unit 3
- 35) 806/1-04 Cross electrical equipment area at Unit 4
- 36) 806/1-01 Radioactive waste disposal
- 37) 810/1-03 Emergency feedwater supply for Unit 3

- 38) 810/1-04 Emergency feedwater supply for Unit 4
- 39) 942/1-02 Walkway for guards
- 40) 331/11-01 Recultivation of construction site installation area
- 41) MGZS buildings according to POV except for roads, waterworks and their parts.

on the lot numbers 2477/2, 1751/1, 1737/2 in Mochovce cadastral area in Mochovce village is according to §66 of the Building Law as amended by §25 and the following Decree No. 85/1976 Coll. on detailed arrangement of building permission proceedings and the building order

permitted.

The following obligatory conditions are determined for the construction erection:

1. The construction will be carried out according to documentation verified within the building permission proceedings; the documentation makes a part of this construction permit. Potential amendments shall not be made prior being approved by the Building Office.
2. The building owner will provide for staking of the site area according to the decision on location of the construction by an authorised authority of organisation.
3. At construction erection all directives related to labour safety and technical equipment shall be kept; it is also necessary to take care of health and life of people present on the site.
4. Relevant provisions (related to any construction) of the Decree No. 83/1976 Coll. which regulates general technical requirements put on construction and relevant technical standards shall be followed at construction erection.
5. The construction shall be finished within 15 month at the latest as this decision entered into force.
6. The construction shall be made using the following suppliers:
 - Building part supplier: Hydrostav, n.p., nám. SNP č. 14, Bratislava
 - Technological part supplier: Výstavba elektráren Škoda k.p. Prague
 The construction will be supervised by Mochovce NPP investor technical supervisor.
7. Individual buildings will be erected according to the verified building layout in 1:2000 scale, drawing No. 413-0-032792 elaborated by Energoprojekt, an engineering and design special organisation Prague with the Order Number 23-7453-02-001 within November 1985.
8. According to the Decision of the Czechoslovak Nuclear Safety Authority Prague No. 36/86, the investor shall incorporate all changes resulted from the submitted list of differences in technical solution of the Construction 3 Basic Design against the Construction 2 in relevant Mochovce NPP quality assurance programmes to 30 September 1989.

Considering sanitary regulations, the following shall be performed:

- Monitoring of coolant radioactivity in the primary circuit by the system for gamma spectrometry monitoring within 3 months prior the Unit physical start up.
- To implement additional measures in order to exclude a possibility of fuel transport container integrity impairment due to its drop prior the first fresh fuel supply.

To fulfil conditions of the Slovak Labour Safety Office Bratislava (hereinafter referred to as SUBP) included in the minutes of meeting from 28 August 1986 which makes an inseparable part of SUBP statement No. 2, 1, 2-752/86/S1 dated 22 September 1986.

Considering fire protection, the following shall be performed:

- To follow comments given in the written statement of the Regional National Committee of Western Slovakia - Regional Fire Protection Inspectorate Bratislava (hereinafter referred to as ZsKNV - KIPO) No. PO-167/5/86 dated 21 March 1986.
- The investor shall submit an opinion of the Russian party on solution of the reactor building 800/1-02 safety.
- To place a parallel signalling of basic states (additional control room) in the fire stations, building No. 656/1-01.
- To follow comments of HSPO of the Ministry of Interior of the SSR related to self-actuating sprinkling devices in cable channels and in areas proposed by SSZ.

To respect relevant valid Czechoslovak technical standards at the construction erection, especially ČSN 34 1050, ČSN 32 3320, ČSN 38 2156, ČSN 73 0872, ČSN 73 0802, ČSN 38 2156, and ČSN 65 0201.

9. The construction shall not be commenced prior the construction permit entries into force (§52 article 1 of the Act No. 71/1967 Coll.).
The construction permit will expire if the construction does not start within 2 years after its entry into force.
10. The building owner shall fulfil all conditions under which the construction is permitted; as the construction permission is delivered, the building owner takes account of them and undertakes to fulfil them.
11. The investor undertakes to take into account all comments of authorities which will result from prepared measures for nuclear safety enhancement.

R e a s o n s :

The Building Office reviewed the submitted application for the construction permit within the building permission proceedings taking into account viewpoints mentioned in provisions of § 62 articles 1 and 2 of the Building Law, and it found out that neither interests of the company nor rights and justified interests of the proceeding participants are endangered, or inadequately limited or jeopardized by the construction completion and future use. The construction documentation fulfils requirements determined by the Decree No. 83/1976 Coll. on General Technical Requirements on Construction, as well as conditions of the urban planning decision on the construction location. During the building permission proceedings, the Building Office did not find any reasons which could prevent the construction to be permitted.

Permanent exclusion of agricultural and forest lands was solved in previous proceedings, because this construction permits follows the construction permits already issued with the following numbers: Výst.565/83 dated 30 March 1983, Výst.1762/83 dated 19 August 1983, Výst.2033/83 dated 2 September 1983, Výst.2199/84 dated 28 September 1984, Výst.665/85 dated 15 May 1985 and Výst.974/86 dated 27 June 1986.

The civil structures which can affect water conditions were approved according to §13 of the Act No. 138/73 Coll. by the relevant water management authority, ZsKNV PLVH Department Bratislava on 27 June 1986 in the decision Ref. No.PLVH-4/701/1986 and on 16 October 1986 in the decision Ref. No.PLVH-4/1141/1986.

Instruction

It is possible to appeal against this decision within 15 days after being delivered. A notice of appeal shall be served to the local department.

Head of Construction and
Urban Planning Department

Ondrej J u h á s z

Distribution List:

- 1) Nuclear Power Plant, concern, Mochovce – 10 copies plus an approved documentation
- 2) Building part supplier: Hydrostav, n.p., nám. SNP 14, Bratislava
Technological part supplier: Výstavba elektrární Škoda k.p. Prague
- 3) Local National Committee, Kalná nad Hronom
- 4) Regional National Committee of Western Slovakia, Agricultural, Forest and Water Management Department
- 5) Regional National Committee of Western Slovakia, Fire Protection Regional Office
- 6) Regional Hygiene Office
- 7) SUBP Bratislava
- 8) Survey Engineering (Geodesy) Office Levice



July, 2009

**Land use permit, Výst.
3818/81 of 28th January 1982,
ONV, Department of
construction and ÚP, Levice**

ANNEX 0.2



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This decision is valid and enforceable

Levice, 7.2.1982

Head of the building and land-use planning section

[illegible signature – translator]

District national committee, building and land-use planning section, Levice

Reference No.: Building 3818/81

Levice, 28 January 1982

Investičná výstavba energetiky Slovenska

Pražská 29

814 25 Bratislava

Decision on the location of buildings (siting Permit)

On 22 November 1981, IVES – Investičná výstavba energetiky Slovenska in Bratislava, submitted an application for the issuing of a decision on the location of buildings in the construction project

Mochovce Nuclear Power Station

Stage 1 of construction (site preparation)

Stage 2 of construction (VVER 2 x 440 MW blocks 1 and 2)

Stage 3 of construction (VVER 2 x 440 MW blocks 3 and 4)

on land with parcel numbers in the locations specified below in the cadastral territory of the municipalities of Mochovce, Veľký Ďúr (cadastral district Horný Ďúr), Kalná nad Hronom (cadastral district Kalnica), Nový Tekov (cadastral district Marušová) and Malé Kozmálovce, which are owned or managed by the JRD 29 augusta collective farm, Kalná nad Hronom, the Nový Tekov Breeding Institute, the Západoslovenské štátne lesy forestry agency, Levice, the Czechoslovak state administered by the local national committees of Malé Kozmálovce and Nový Tekov and the Watercourse Administration in Bratislava, the District Roads Administration in Levice, the Roman Catholic Church (in the municipality of Malé Kozmálovce) and private owners.

The building and land-use planning section of the District National Committee in Levice, as the competent building office authorised in accordance with section 119 (1) of Act no. 50/1976 Zb. by the land-use planning section of the Western Slovakia Regional National Committee Bratislava in authorisation no. ÚP 311/80 of 26.8.1980, has assessed the application in accordance with sections 37 and 38 of Act no. 50/1976 Zb. on land-use planning and the building code and section 8 of Decree no. 85/1976 Zb. and hereby issues

a decision on the location of construction

for structures in the first, second and third stages of the construction of the Mochovce Nuclear Power Station as follows:

I. Stage 1 of construction (site preparation)

1. Road to the main construction site
2. Parking lot at the main construction site
3. Site for the cooling system
4. 22 kV power line Nový Tekov – transmitter R 09 on Veľká Vápenná
5. Rerouted forest roads
6. Store no. 2 for tree stumps and woodchips
7. Site drainage
8. Site equipment for GDS for stages 2 and 3 of construction.

II. Stage 2 of construction (VVER 2 x 440 MW blocks 1 and 2)

1. Structures relating to industrial water
2. Alternative water source from Kalná nad Hronom
3. Store for inactive waste

III. Stage 3 of construction (VVER 2 x 440 MW blocks 3 and 4)

Specification of the plans for the main site modified since land-use decision Výst. 2044/81 of 10.7.1981 on land in the cadastral districts and parcels specified below:

I. Stage 1 of construction (site preparation)

1. Road to the main construction site

The structure is located on parcels no. 2341 and 2245/1 which are agricultural land used by the JRD 29 augusta collective farm Kalná nad Hronom and parcel no. 2370 – road and parcel no. 2009 – forest used by the Západoslovenské štátne lesy forestry agency, Levice.

The land is situated in the cadastral district of the municipality of Mochovce.

2. Parking lot at the main construction site

Situated on forest land used by the Západoslovenské štátne lesy forestry agency, Levice, parcel no. 2009 and parcel no. 2245/1, which is agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom. The land is situated in the cadastral district of the municipality of Mochovce.

3. Land for the cooling system

Situated on parcel no. 2003/3, which is agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom and parcel no. 2009 – forest land in the cadastral district of Mochovce. Also on parcel no. 1737 forest land in the cadastral district of Nový Tekov. Parcels no. 2009 and 1737 are used by the Západoslovenské štátne lesy forestry agency Levice.

All three cases involve additions to previously issued land-use decisions or specification of parcels and the purpose for which they are used because the site itself has already been approved in land-use decisions no. Výst. 3865/1980 of 22.10.1980 and Výst. 2044/1981 of 10.7.1981.

4. 22 kV power line Nový Tekov – transmitter R 09 on Veľká Vápenná

The route of the above-ground cable is situated on agricultural land in the cadastral district of Nový Tekov.

Parcels no. 3931, 3950, 3124, 2615, 2616, 2618, 3906 used by the JRD 29 augusta collective farm, Kalná nad Hronom,

Parcels no. 2649 and 2652 used by the Nový Tekov Breeding Institute,

Parcels no. 2799, 2798, 2617/3, 2619/2, 2620/3 used by private owners,

Parcels no. 3934/1, 3137, 3112, 3996/1, 3111, 2655 other land under the administration of the Local National Committee in Nový Tekov,

Parcel no. 1748 other land used by the Západoslovenské štátne lesy forestry agency, Levice

5. Rerouted forest roads

Situated on forest land used by the Západoslovenské štátne lesy forestry agency, Levice. The following parcels are affected:

1917, 1965 cadastral district of Malé Kozmálovce

1769, 1761, 1758, 1757, 1756, 1754, 1748/1, 1749, 1747, 1746, 1742, 1741, 1740, 1739, 1738, 1737, 1736, 1735, cadastral district of Nový Tekov

6. Store for tree stumps and woodchips

To be situated in the cadastral district of Mochovce on parcels no. 806, 825/2 and 451/3

The parcels are agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom.

7. Site drainage

The route of the pipe crosses parcel no. 2245/1 in the cadastral district of Mochovce, which is agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom.

8. Site equipment for GDS for stages 2 and 3 of construction.

Construction will take place on parcels no. 2537/2, 2341, 2414 and 2447, which are agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom, and on parcels no. 2506, 2667, 2274/2, 3226 and 2370 registered as other land and parcel no. 3056, a stream, under the administration of the Levice Centre of the State Land Improvement Administration (*Štátna melioračná správa*), Bratislava. The land is in the cadastral district of Mochovce.

Land-use decision no. Výst. 3865/1980 of 22.10.1980 included parcels for the construction of rerouted forest roads and the 22 kV power line Nový Tekov – R 09 Veľká Vápenná that do not include the affected land. Therefore the building office cancels points 2 and 3 on pages 3 and 4 in full by a **separate decision**.

II. Stage 2 of construction (VVER 2 x 440 MW blocks 1 and 2)

1. Structures relating to industrial water

situated in the cadastral district of Malé Kozmálovce on parcels no. 1067/1, 1105/1, 1108, 1105/2, which is agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom, and parcel no. 1112 – other land used by the Levice District Roads Administration, and parcels no. 1116, 1493/1 – other land used by the Hron River Authority (*správa Povodia Hrona*) and 1174 used by the Roman Catholic church in Malé Kozmálovce.

In the cadastral district of Nový Tekov on agricultural land with the following parcel numbers: 4027, 3950, 3959, 3931, 3906, 3131, 3135, 1744/1 used by the JRD 29 augusta collective farm, Kalná nad Hronom,

4029, 4023/1, 4016, 1856, 3813 used by the Nový Tekov Breeding Institute,

3182, 3181, 3180, 3174, 3173, 3169, 3168, 3164, 3159, 3156, 3149/2, 3149/1, 3148, 3939, 3141/1, 3141/2, 3132, used by private owners,

3163, 3160 under the administration of the local national committee in Nový Tekov,

on other land

in the cadastral district of Nový Tekov on parcels no. 4026/1, 4025, 3995, 3934/1, 3998/1, 3933/2, 3138, 3135 under the administration of the local national committee in Nový Tekov, parcels no. 4026/2, 4028, 1879, 4014 used by the Nový Tekov Breeding Institute,

parcel no. 1881 used by the JRD 29 augusta collective farm, Kalná nad Hronom

watercourses on parcels 1866 and 3933/1 used by the Hron River Authority,

forest land on parcels no. 1743, 1741, 1739, 1746, 1749, 1754, 1740, 1742 used by the Západoslovenské štátne lesy forestry agency, Levice

2. Alternative water source in Kalná nad Hronom

The route of the pipe crosses the cadastral territories of Kalnica, Marušová, Nový Tekov and Mochovce.

Cadastral district Kalnica

parcel no. 893/1 agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom.

Cadastral district Marušová

parcels no. 658, 685 agricultural land used by the JRD 29 augusta collective farm, Kalná nad Hronom.

parcels no. 662, 659 – other land used by the JRD 29 augusta collective farm, Kalná nad Hronom.

parcel no. 658 – water used by Western Slovakia water and sewerage enterprise (Zs VAK) Bratislava.

Cadastral district Nový Tekov

agricultural land on parcels no. 1477, 930, 1217, 1216 used by the JRD 29 augusta collective farm, Kalná nad Hronom,

parcels no. 1248, 3849, 1687, 1692 used by the Nový Tekov Breeding Institute,

parcel no. 1689 forest land used by the Západoslovenské štátne lesy forestry agency, Levice
other land

parcels no. 1348, 1343, 1694, 1693, 1641 used by the Nový Tekov Breeding Institute,

parcel no. 1642 used by the JRD 29 augusta collective farm, Kalná nad Hronom

parcels no. 1347/2, 1349 used by the Levice District Roads Administration

Cadastral district Mochovce

agricultural land

parcels no. 3253, 2537/2, 2341, 2068/1, 2022/1, 1751 used by the JRD 29 augusta collective farm, Kalná nad Hronom

other land

parcels no. 3256, 3255, 3226, 1747/2 used by the JRD 29 augusta collective farm, Kalná nad Hronom

parcels no. 3256, 421/2, 421/1, 420, 2131 used by the Levice District Roads Administration

parcel no. 2018 used by the Západoslovenské štátne lesy forestry agency, Levice

forest land

parcels no. 3386, 3387, 3388/1, 2017, 2011 used by the Západoslovenské štátne lesy forestry agency, Levice

3. Store for inactive waste

This will be situated on parcels no. 919, 946/1, 1219, which is forest land used by the Západoslovenské štátne lesy forestry agency, Levice, situated in the cadastral district of Horný Ďúr.

Waste will be transported across forest land parcels no. 2043, 2040, 2045 and forest road parcel no. 2054 used by the Západoslovenské štátne lesy forestry agency, Levice.

The affected land is shown on plans, which were presented for inspection at oral proceedings and are held at the building and land-use planning section of the district national committee in Levice.

The following conditions are set for the location and design of the various structures:

- 1) to abide by the conditions set in the Single Combined Standpoint of the Western Slovakia regional national committee Bratislava issued by the section under reference no. Výst. 80/1980-Má and the amendments, reference no. Výst. 203/81-Má of 28 May 1981 and reference no. Výst. 241/81-Má of 13 July 1981
- 2) to abide by the conditions set by the regional hygiene office of the Western Slovakia regional national committee Bratislava in decision no. 1890-244.9/1981 of 2.8.1981 and decision no. 1636-241.1 of 23.7.1981 and the requirements laid down in the minutes taken at the regional hygiene station in Bratislava on 8.12.1981.
- 3) to comply with the conditions set it in the standpoint of the State Energy Inspectorate in Trenčín, reference no. 1251/587/81/V/Bá of 11.8.1981
- 4) to comply with the conditions included in land-use decision no. Výst. 3865/1980 of 22.10.1980.
- 5) to take into consideration in design work the requirements of ZSE k.p. Bratislava relating to the way in which the power line should cross intake and/or waste pipes.
- 6) the applicant must provide a solution for the radio-relay connection to transmitter R 09 by the date for submission of the application for the building permit for any structure in stages 2 and 3 of construction, or obtain the consent of the operator of the transmitter for a delay by this date.
- 7) the route of the feed line of the alternative water source shall follow the reconstructed Kalná nad Hronom – Mochovce road in such a way that the route from the source to the road is as short as possible.
- 8) to comply with the requirements of authorities and organizations added to their original decisions or standpoints, or which have been agreed with the investor.

9) in the case of structure no. 4, 22 kV power line Nový Tekov – transmitter R 09 on Veľká Vápenná, structure no. 6, store for tree stumps and woodchips, and structure no. 2, alternative water source from Kalná nad Hronom, this is a withdrawal of agricultural land in accordance with section 25 of Act No. 124/76 Zb. for a period of 1 year.

Rationale

The applicant submitted the application for the location of structures relating to stages 1, 2 and 3 of the construction of the Mochovce Nuclear Power Station in Levice District, Western Slovakia Region, sector and subsector industry, production of heat and electricity. The investor is Investičná výstavba energetiky Slovenska, Bratislava, whose managing authority is the Federal Ministry of Fuels and Power, Prague. The chief designer is Energoprojekt. The senior contractors for construction are Hydrostav n.p. Bratislava and Vahostav n.p. Žilina, the contractor for equipment is Oborový Podnik Škoda Plzeň. The construction project is a nuclear power station with a total output of 4 x 440 MW, and the production of heat for the municipalities of Levice, Nitra, Vráble and Tlmáče.

The applicant justifies the application both on the basis of a change in the general plan for the main site, where there has been a change in the positioning of the main blocks and the cooling equipment and also improvements in the economic and technical efficiency of the industrial water supply.

The application was supported by the Single Combined Standpoint of the Western Slovakia regional national committee Bratislava.

Prior consent for the withdrawal of agricultural land from agricultural production was issued by the Ministry of Agriculture and Food of the Slovak Socialist Republic under no. 10698/81-PV on 10.12.1981.

Consent for the withdrawal of forest land was issued by the PLVH section of the the Western Slovakia regional national committee under no. 3./694/1981 on 7.5.1981.

The building and land-use planning section of the Levice district national committee informed all parties to the proceedings and affected state administrative bodies of the start of on 29.12.1981 under reference no. Výst. 3818/1981 and oral proceedings took place on 12.1.1981.

The standpoints of the parties are included in the conditions for this decision or have been included in the land-use decisions no. Výst. 3865/1981 of 22.10.1980 and Výst. 2044/1981 of 10.7.1981.

The land is shown on the plans, which are held at the building and land-use planning section of the Levice district national committee and which form an integral part of this decision.

The location of the structures satisfies general technical requirements in accordance with Decree no. 83/1976 Zb.

The location of the Nuclear Power Station in Mochovce was decided by this department in accordance with decision no. 221 of the government of the CSSR of 7 September 1978.

This decision shall remain in force for 2 years from its entry into force in accordance with section 40 (1) of Act no. 50/1976 and shall not terminate if an application for a building permit is submitted during this period or an application for the extension of validity is submitted during this period.

An appeal against this decision may be submitted to the land-use planning section of the Western Slovakia regional national committee through the building and land-use planning section of the Levice district national committee up to 15 days from the date of this announcement

Head of the building and land-use planning section of the Levice district national committee

Ing. Czúdor Arpád

Annexes:



July, 2009

**Decision of Regional Office in
Nitra No. 97/02276-004 004 of
5th May 1997, KÚ in Nitra,
Department of environment**

ANNEX 0.3



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REGIONAL OFFICE

In NITRA

949 80 NITRA, Štefánikova trieda 69

File No.: 97/02276-004
To the construction permit
No. Výst.2010/86 dated 23 January 1986

In Nitra on 5 May 1997

Ref: Construction completion deadline change

Slovenské elektrárne Mochovce, a.s., Mochovce NPP, Branch asked on 17 April 1997 by the letter Ref. No. 8.2/5010/Ša/AJ/906/97 the Regional Office in Nitra - The Environmental Department for changing the completion deadline of the construction:
“Mochovce Nuclear Power Plant, WWER 4x400 MW – Construction 3”.

The Regional Office in Nitra – The Environmental Department as a relevant building office according to the provision of §123 of the Act No. 50/79 Coll. (Building Law) as amended and §4 article 1 of the Act No. 595/1990 on State Administration for the Environment as amended

changes

the legal construction permit No. Výst.2010/86 dated 12 November 1986 awarded by the District National Committee in Levice, Department of Construction and Urban Planning in point 5 of conditions for the construction erection:

- **the construction shall be completed to 31 December 2005 at the latest.**

RNDr. Július Szabó
Head of the Environmental Department

For information:
Slovenské elektrárne, a.s.
Mochovce NPP Branch, 935 39 Mochovce



July, 2009

**Decision KSÚ in Nitra No.
2004/00402-007 007 of 15th
July 2004, Nitra**

ANNEX 0.4



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DECISION

Slovenské elektrárne a.s. Bratislava, Mochovce NPP Units 3&4, Branch (SE, Bratislava a.s., Mochovce NPP Units 3&4 Branch) asked on 2 June 2004 for changing the completion deadline of the construction:

Construction 3 Mochovce Nuclear Power Plant WWER 4x440 MW

located in lands of the lot number 2477 in Mochovce cadastral area, Kalná nad Hronom and the lot number 1751 in Nový Tekov cadastral area, district Levice.

The Regional Building Office in Nitra as a relevant building office according to §123 of the Act No. 50/1976 Coll. on Urban Planning and Building Order as amended (Building Law) discussed the request according to §68 of the Building Act in such as a scope as the construction change prior its completion concerns rights, legal-protected interests or obligations of participants of the above-mentioned proceeding as well as interests protected by affected state administration authorities, and decided as follows:

Valid construction permit awarded by the District National Committee in Levice, Department of Construction and Urban Planning with the Ref. No. Výst.2010/86 dated 12 November 1986

is changed

in point 5 of the obligatory conditions of the construction erection so that:
“The construction completion deadline is set to 31 December 2011.”

This decision makes an inseparable part of the construction permit No. Výst.2010/86 dated 12 November 1986.

S u b s t a n t i a t i o n

SE, Bratislava a.s., Mochovce NPP Units 3&4, Branch (the building owner) asked the relevant building office for changing the completion deadline of the construction “Construction 3 – Mochovce Nuclear Power Plant WWER 4x440 MW” (hereinafter referred to as Construction) to 31 December 2011. The building owner stated in its application Ref. No. MO34/2004/003607 dated 27 May 2004 that the construction started to be built in 1986; it was not completed to April 1996 set in the construction permit No. Výst.2010/86 dated 12 November 1986 and it is expected that it will not be finished to 31 December 2005 stated in the notice Ref. No. 97/02276-004 dated 5 May 1997 issued by the Regional Office in Nitra, the Environmental Department which makes an inseparable part of the above-mentioned

construction permit. A "preliminary schedule of Mochovce NPP Units 3&4 completion" where 31 December 2011 is set as a deadline of the construction completion is enclosed to the application.

The building owner substantiates its application by the fact that the construction is unfinished and kept in good technical condition so that it does not affect the environment. The building owner now provides for analyses, studies and technical concepts, and prepares a financial and supply model aimed at Mochovce NPP Units 3&4 completion preparation.

The Building Office informed on commencement of proceedings on the construction change prior its completion to individual participants and affected state administration authorities by the letter Ref. No. 2004/00402-002 dated 18 June 2004.

The following affected state administration authorities expressed their opinions on the construction change prior its completion:

- 1) Nuclear Regulatory Authority of the SR
 - The opinion Ref. No. 1647/320-244/2004/HI dated 30 June 2004
 - The affirmative opinion Ref. No. 1647/320-244/2004/Hi dated 8 July 2004 with comments related to meeting requirements given in the letter as well as in the opinion on the completion concept making and annex to this letter
- 2) National Labour Inspectorate
 - The affirmative opinion Ref. No. 1668-2, 5/2004/Dk dated 6 July 2004.

The opinions are neither negative nor contradictory; as resulted from them, the construction change prior its completion consisting in Mochovce Construction 3 deadline change on 31 December 2011 can be permitted.

SE, a.s., Mochovce NPP, Branch, as the proceeding participant, commented the proceeding and submitted an affirmative opinion by the letter ref. No. EMO/2004/0265551 dated 2 July 2004.

I n s t r u c t i o n

It is possible to appeal against this decision within 15 days after being delivered according to §54 of the Act No. 71/1967 Coll. on Administration Proceedings to the Regional Building Office Nitra, Lomnická 1, P. O. Box 55/C, 949 01 Nitra.
This decision can be inquired by court after application of usual remedial instruments.

Mr. František Halás
Chairman

To be distributed according to page 3.



July, 2009

**ÚJD SR - DECISION no.
246/2008 - Number: 684/320-
231/2008 - Trnava, August 14,
2008**

ANNEX 0.5



A world of
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Nuclear Regulatory Authority of the Slovak Republic,
Bajkalská 27, P.O.Box 24, 820 07 Bratislava 27,
Trnava workplace, Okružná 5, 918 64 Trnava

Number: 684/320-231/2008

Slovenské Elektrárne, a.s.
Units 3 and 4 of NPP Mochovce
935 39 Mochovce

DECISION no. 246/2008

The Nuclear Regulatory Authority of the Slovak Republic (hereinafter as “authority”) as factually administrative body according to § 4 par. Letter j) of the Act no. 541/2004 Coll. about use of nuclear energy for peaceful purposes (Atomic Act) and about change and completion of some Acts according to Act no. 238/2006 Coll., Act no.21/2007 Coll., Act no.94/2007 Coll. and Act no. 335/2007 Coll. and according to § 121 par. 2 letter e) of the Act no. 50/1976 Coll. about landscape planning and building regulations (hereinafter as “building act”) as amended negotiated the builder application according to § 39a par. 3 letter d), §55, §62, §68 of building act and decided as follows:

Change of construction before finishing “**Nuclear Power Plant Mochovce VVER 4x440 MW 3rd construction**” in the area of Slovenské Elektrárne a.s. NPP Mochovce Units 3 and 4 is being

permitted

within the scope of UJV Řež a.s. design – EGP Prague division, Vyskočilova 3/741, P.O.Box 158, Praha in compliance with § 66 of the building act.

The change of construction before finishing will be performed in following scope:

Buildings of 3rd construction and related buildings of the 2nd construction:

320/1-08 External barrier – demolition of a part of the fencing in the area of leading-in and side lodge

320/1-09 External barrier – establishment of the new entrance for the building vehicles.

320/1-10 Basement of the internal barrier – new open-pit points of line.

320/1-12 Fencing of ventilation towers of the 2nd MPB - new open-pit points of line.

320/1-18 Temporary fencing, 320/1-19 temporary fencing (between units 3 and 4) – Change of the technical solution of the fence, location of the open-pit points and structure of founding.

320/1-20 Temporary fencing – new building that will be used for separation of the part of operated power plant and the part under construction Building 599/1-01 and after its finishing

it will be dismantled and final modification of the landscape will be done by spreading the topsoil to the level of 237.100 m over the sea level. It is an over-ground line building that once crosses already existing road. On the line of the fence there will be 2 pieces of double-wing gates 4000/2500mm. Total length of fencing is 315.300 m, the fence height over the landscape is 500 mm plinth + 2000 mm mesh + 500 mm bracing with stressing wire. The fencing consists of 12 sections among 14 open-pit points. The fence structure is from steel thin-wall columns, mesh and rod beams in "V" shape with three hangers for stressing wire. The whole line of the fence is equipped by the cameras of industrial TV. The cameras are located on independent columns, power supply and data technological cabling is located in the gaps anchored on the fencing columns, lightening devices are located on original columns. Location of temporary construction see drawing no. **SO41601A02V**.

350/1-02 Cuts and channels of power cables 2nd part – Removal of channels EK 328S and EK 428, construction and seismic reinforcement of the new channels of EK 328S, EK 459EK 361, EK 362, EK 363, EK 460.

352/1-02 - Cuts and channels of light-current lines – cancelled

360/1-04 – Rain water sewerage – Changes of spill way lines and shafts, new smaller lines.

361/1-04 – Sanitary sewerage – Change of materials and small parts of the lines.

362/1-04 – Industrial sewerage - Change of materials and small parts of the lines.

371/1-03 – Drinking water system - Change of materials, shafts and small parts of the lines.

372/1-03 – Fire and utility water system - Change of materials of all the lines.

383/1-02 – Thermal network in the area of the power plant – 2nd part – new seismic-resistant pipeline channel PKS 91(90) with the line of heating water and cool form the channel TK 21 (32) and changes in channels TK21, TK32 and TK42.

400/1-04 – Foundations of the pipeline bridge between building 801/1-02 and 801/1-01 – new building for transport of liquid radioactive wastes from building 801/1-02 Reactors building of the 2nd MPB to 801/1-01 FS KRAO, along building 442/1-02 DGS of the MPB. There will be a steel pipeline bridge based on foundation of reinforced concrete that will carry three pipelines for sorbent, concentrate and one pipeline will be a reserve one. According to the transport the building is connected to communication system of the 3rd construction. The built-up area is 42 m², total length of the line is 192 m. The steel structure of the bridge is along building 801/1-01 and 1-02 fixed on brackets anchored into reinforced concrete wall of the auxiliary nuclear buildings. In the free area between the buildings there is a pipeline located on the bridge with steel columns mounted into reinforced concrete footings. The steel structure (hereinafter as "SS") of the bridge is elaborated in DPS 3.54.04. The foundation footings are from reinforced concrete, they are monolithic from the concrete of C16/20-B20 class, reinforced by the steel of 10335 (J). 22 pieces of footings will be with dimensions of 1.0 x 1.3 m and height of 1.5 m. One footing as a fixed point will have dimensions of 1.3 x 2.2 m and height of 1.85 m. For location of the foundation see drawing no. **SO41620A02V** and from ground plan and footings cross-section see drawing no. **SO41620A03V**.

400/1-05 Foundation for dry riser – building permitted by Regional authority for the environment Nitra, division of state water management no. 2008/00375 from April 21st, 2008.

401/1-02 Pipeline channels 2nd part A, E, F, H – removal of the pipeline channel TK32 and building of the new channels PKS90 and PKS91.

442/1-02 Diesel generator station of the 2nd MPB – Exchange of the roof coat, reinforcement of partition walls and exchange of fire-resistant doors.

442/1-04 High-pressure compression station – 2nd MPB - Exchange of the roof coat and exchange of fire-resistant doors.

442/1-06 Oil management of DG station of 2nd MPB – Exchange of aisle roof by saddle roof, exchange of fire-resistant doors and covers and addition of firewalls.

442/1-07 Common diesel generator station of the 2nd MPB – New building standing independently with dimensions of 19 x 14.90 m, located next to building 568/1-02 and 566/1-02 connected by the channel. The building specifies the area for foundation for placement of the container with DGS and strengthened area for service. Next to the foundation there is the underground part of the building divided into area of the tank with diesel oil of 30m³ and turbine hall. The foundation for DGS has dimensions of 15.00 x 3.00 x 0.85 m, it is designed from reinforced concrete from concrete of C16/20 – B20 class. The manipulation area is (except the roof of the underground part) is made of reinforced concrete paving bricks set into the cement bedding. The underground part of the building – the tank, will be located on the concrete foundations. The tank structure is monolithic reinforced concrete bath insulated against oil products leakages. The tank bottom is on the level of approximately –4.80 m. Vertical bearing walls and ceiling bearing structures are monolithic reinforced concrete of 400 mm thickness. The roof over the underground area is ascendable with concrete pavement. Built-up area is 272.30 m². Extension area: 886 m². Maximum depth of foundation is –5.900 m. For location of the building see drawing no. **SO41689A03V**.

490/1-02 Turbine hall of the 2nd MPB – Units 3 and 4 – Exchange of the roof coating, reinforcement of roof SS, reinforcement of external cladding bracing, exchange of 2 pieces of gates, new outbuildings of the turbine hall extinguishing device, new building of the switch room, roofing of the aeration channel, completed gallery of visitors, exchange of fire-resistant doors, new hydrazine tank. Seismic reinforcement of the roof – horizontal bracing of the roof girders Z2, Z4, diagonal D2 of the nogging piece, girder V1 – lower band, horizontal bracing of the roof girders – middle band, vertical noggin piece in row A.

510/1-02 Foundations of transformers with oil tanks of the 2nd MPB – new standings including connection to oil pits and two new baths for fire water collection.

522/1-02 External switchyard 110 kV and 400 kV – 2nd MPB – removal of the footings and their new location, new cable channels.

566/1-02 Racking of the diesel oil and oil of the 2nd MPB – consolidation of the building 566/1-04 and 566/1-02 – new racking place, channel and emergency tank.

580/1-04 Ventilation cooling tower II-1, 580/1-05, Ventilation cooling tower II-2, 580/1-06 Ventilation cooling tower II-3 – Exchange of asbestos, massive reinforcement in SS, reinforcement of concrete structures of the intermediate bracing walls. Seismic reinforcement means addition of vertical steel bracings, reinforcement of reinforced concrete vertical walls in longitudinal axis of the tower over the edge of the vessel up to +4.20m.

581/1-05 Draft cooling tower 31, 581/1-06 Draft cooling tower 32, 581/1-07 Draft cooling tower 41, 581/1-08 Draft cooling tower 42 – Exchange of asbestos material of cooling tower internal by new one – plastic.

584/1-02 Central pumping station of non-essential service water and non-system fire water of the 2nd MPB – reinforcement of the roof beams, reinforcement of SS by exchange of bracings, disassembly of the roof coating and assembly of the new one, exchange of fire-resistant doors.

584/1-04 Pumping station of the essential service water, utility and system fire water of 2nd MPB – reinforcement of SS by exchange of the bracings, reinforcement of roof beams, exchange of fire-resistant doors. Seismic reinforcement means exchange of longitudinal bracings in row A and C, reinforcement of the lower band of beams and reinforcement of boundary diagonal of the beams.

622/1-02 Foundation of the transversal rail for transformers of the 2nd MPB – new lining of the railways.

652/1-01 Side lodge – the new building functionally replaces the temporary side lodge made from UNIMO cell and it will be used as entrance and exit lodge including all securing and check functions. The side lodge is located in north-west part of EMO area, west from existing

building of 881/1-01. Location corresponds with original lodge. Ground plan dimensions of the building on the level of ± 0.000 are 20.900 x 17.600 m, the height of attic is 4.920 m over the modified landscape, level of footing base -1.300 m and -1.600 m. There are connections of drinking water system, fire water system, sanitary sewerage, rain water sewerage, hot water connection, return cooled water, cable channel (heavy current, telephone connection, EPS) in the building. The control area for vehicles together with pavements is 19.75 m wide and 23.00 m long. Between the traffic lanes there is a steel ramp with steps to the lodge and main entrance. The area for control activities is covered by light structure with headroom height of 5.30 m. The bearing structure is made of columns and steel tubes, horizontal beams and polycarbonate boards. The covered area of the drive-in is 223.380 m². The building will be accessible from the road by the pavement that within the framework of building 690/1-03 connects to an area reinforced by inter-pavers before entrance to ledger. For location of the building see drawing no. **SO41660A04V**.

670/1-03 Interplant train part 3 – building was permitted by the Authority for regulation of the railway transport with no. 1987/08 – ŠSÚ/J-Vg from June 16, 2008.

670/1-06 Drainage of interplant train part 3 – new draining shaft.

800/1-02 Reactor hall of the 2nd MPB – reinforcement of cellular concrete panels, reinforcement of bricked walls, reinforcement of SS roof, reinforcement of SS columns, civil modifications for solution of beyond design accidents, exchange of the lifts, new gallery for visitors, exchange of fire doors, disassembly of the old and assembly of the new roof coating. Seismic reinforcement of the gable walls, roof, columns in row G axis 218 and 220 and horizontal elements of the profile I.

800/1-02 Building of active auxiliary operations for 2nd MPB – additional building for the transport area, reinforcement of peripheral siporex panels, reinforcement of bricked walls, new reinforced concrete wall, exchange of fire doors, exchange of the lifts, disassembly of the old and assembly of the new roof coating. Seismic reinforcement means reinforcement of the transversal bracing in row 1, reinforcement of the staircase stringer, reinforcement of the beams in row 7, reinforcement of longitudinal bracings in V 4-5, G 11-12 V1 11-12, reinforcement of columns anchoring in part 01-7 and A-G in part 7-17 and V-G, improvement of peripheral panels fixation.

802/1-03 Connection bridge between 2nd MPB and building 801/1-02 – Disassembly of the old and assembly of the new roof coating.

802/1-04 Connection bridge between 1st MPB and 2nd MPB - Disassembly of the old and assembly of the new roof coating.

804/1-02 Air duct to ventilation stack of the 2nd MPB - Disassembly of the old and assembly of the new roof coating.

805/1-02 Areas of electrical devices longitudinally Units 3 and 4 – reinforcement of SS columns and bracings, yoking of the ceiling board and SS, gas-tight modifications of the rooms (main control room), new out-of unit control room, new gallery of visitors, exchange of the lifts, reinforcement of cellular concrete facades, reinforcement of bricked walls, disassembly of the old and assembly of the new roof coating, new fire-resistant doors. Seismic reinforcement of the transversal bracing in row 1, stringers between rows 01 and 1, beams in row 7, longitudinal bracings V4-5, G11-12, V1 11-12, anchoring columns 01-7 and A-G, 7-17 and V-G.

806/1-03 Areas of electric device transversally – Unit 3 - Yoking of the ceiling board and SS, air-conditioning for the control rooms, reinforcement of SS roof, disassembly of the old and assembly of the new roof coating, exchange of fire-resistant doors. Anchoring into the wall in row 310.

806/1-04 Areas of electric device transversally – Unit 4 - Yoking of the ceiling board and SS, air-conditioning for the control rooms, reinforcement of SS roof, disassembly of the old

and assembly of the new roof coating, exchange of fire-resistant doors. Anchoring into the wall in row 410.

810/1-03 Emergency feed water system Unit 3, 810/1-04 Emergency feed water system Unit 4 – Reinforcement of the ceiling board under the DEMI water tanks by 350 mm, reinforcement of the structure by SS, topping of the peripheral walls of the staircase.

810/1-05 Reserve water source – 2nd MPB – A new independent building standing in front of southern frontage of 806/1-03 (Areas of electric devices transversally – Unit 3). According to transport the building is connected to access road led from service road on the southern side of the building 810/1-03. The built-up area is 374 m², extension area is 2526 m². The ground plan dimensions of the building are 38.10 x 8.5 m. lower edge of the tanks +0.200 m, height of the building +4.440/+5.200 m, maximum depth of foundation –3.450 m. The building is cellaraged, partially double-floor. On –2.45 m floor there is a room for pumps and exchangers where there is a new channel and cable area connected into which there are new energy channels connected. On ±0.00 floor there is light current and heavy current switch room. Three steel tanks are set in the collection bath (on the level of +0.200m) with internal dimensions of 8.20 m x 23.95 m, height 4.00 m that is located next to bricked part of the building. The building structure is designed as reinforced concrete up to level of –0.100, monolithic with reinforced concrete peripheral walls with one over-ground floor. The over-ground part is bricked. The collection bath is next to bricked part of the building. The bath bottom is made of steel-concrete board with 750 mm thickness. The roof is flat. For location of the building see drawing no. **SO41682A03V**.

371/1-02 Drinking water system, 372/1-02 Fire and utility water system – relocation

510/1-01 Foundations of transformers with oil tanks of the 1st MPB – Removal of the old foundations, construction of the new cable channels and foundations.

522/1-01 External switchyard 110 kV and 400 kV – 1st MPB – Removal of the old foundations, construction of the new cable channels and foundations.

593/1-01 Decarbonisation of the chemical water treatment – 2nd construction – Disassembly of the original and implementation of the new tanks, change of staircase in the building of lime silos.

599/1-01 Sludge treatment of the chemical water treatment – new structures (tanks, building, sludge presses)

690/1-01 Interplant roads part 1 – Change of the line next to 881/1-01 Metrology station.

801/1-01 Building of active auxiliary operations 1st MPB – New room of the sorbent tank – change of usage purpose.

808/1-01 Radioactive waste liquidation – is not going to be realised, it is replaced by the building of final processing of liquid radioactive wastes.

840/1-01 Operational building – The subject of the solution is the new monitoring system of contaminated persons control and related building modifications on floors +10.500, +18.900 and 23.100m.

882/1-01 Low-pressure compressor station and cool source station – 2nd construction – New concrete collection tanks, modifications of the concrete columns.

Buildings with small building modifications:

350/1-01 Cuts and channels of the power cables, **351/1-02** Heavy current line 2nd part, **353/1-02** Main grounding network, **376/1-02** Control probes of bleeding, 2nd part, **400/1-03** Putting the pipeline to ±0.00 2nd part, **568/1-02** Diesel oil management 2nd MPB, **582/1-04** Cooling water pipeline in the towers circuit of 2nd MPB, **583/1-02** Cooling water channels in the towers circuit of 2nd MPB, **585/1-02** Sludge pipeline of the cooling towers of 2nd MPB, Cooling water pipeline in the towers circuit of 2nd MPB, **682/1-01** Modification of the road before building finishing, **690/1-02** Interplant road 2nd part, **690/1-03** Interplant road 3rd part,

690/1-06 Interplant road drainage 3rd part, **780/1-02** Civil defence shelter under 655/1-01, **803/1-02** Ventilation stack.

The authority in compliance with § 66 of the building act determines following binding conditions of the construction finishing:

1. To perform the change of construction before finishing according to design documentation verified by the authority in building proceedings.
2. The builder is obliged to fulfil the regulation related to work safety technical equipment and at the same time to pay attention to health protection and personal protection on site while performing building activities.
3. To maintain provisions of the building act, Decrees of the Ministry of Environment of the Slovak Republic no. 532/2002 Coll. about general technical requirements for buildings and corresponding technical standards while performing the building activities.
4. The builder is responsible for compliance of the buildings with the documentation verified in the building proceeding.
5. The builder **is obliged** to announce the **beginning of the building change** to the authority.
6. To finish the construction till **December 31st, 2013**.
7. To inform the authority about the building supplier in 15 days after the tendering results declaration.
8. To fulfil following conditions according to § 66 par. 2 letter b) and e) of the building act from binding standpoints of involved bodies:
 - 8.1 To provide removal of the shortcomings in the design documentation to assure safety and protection of personal health in compliance with § 7 par. 3 letter c) of the Slovak Republic Government Act no. 125/2006 Coll. about work inspection and about change and amendment of the Act no. 82/2005 Coll.:
 - a) In the technical report or design documentation there is not a solution of evaluated residual threads and dangers arising from proposed technical solutions, which is contrary to § 4 of the act no. 124/2006 Coll. about labour safety and health protection during the work and about change and amendment of some of the acts as amended (hereinafter as act no. 124/2006 Coll.)
 - b) In the text of WP 04.1 Revision and completion of Basic design for MO 34, B – Summarising technical report, there is mentioned the Act no. 124/2006 Coll. about labour safety and health protection and about change and completion of some of the acts according to amendment of the act no. 309/2007 Coll. and act no. 140/2008 Coll. is missing or listed only as amended.
 - c) In the document of WP 04.1 in the table of the act no. 264/1999 Coll. as amended there are cancelled legal regulations e.g. Decree of the Government no. 29/2001 Coll. and it should be Decree of the Government no. 35/2008 Coll. that is contrary to § 4 par. 1, § 6 par. 1 letter a), n) and § 13 par.1 and 2 of the Act no. 124/2006 Coll. and §10 par. 4, §13 of the Act no. 264/1999 Coll. as amended.

Deadline: In two months after this decision comes into force. The removal of shortcomings should be announced in written for to corresponding Labour Authority.

- 8.2 To maintain following conditions in compliance with §16 par. 1 letter b) point 2 of the Act no. 223/2001 Coll. about wastes:
- a) Arisen wastes will be separated and collected in compliance with §19 of the act no, 223/2001 Coll. about wastes (in case of contaminates wastes, category “N”, separately from wastes of category “O”)
 - b) Collection of wastes arisen during the building works before their further handling will be provided in compliance with §22 par.1 of the Ministry of Environment Decree no. 283/2001 Coll. as amended.
 - c) For substantial inspection the investor will submit the document about disposal of unusable wastes that have arisen during the building works, including the material balance.
 - d) When handling the wastes from building works, the originator is obliged to respect provisions of § 40 of the act no. 223/2001 Coll. about wastes as amended.
 - e) In case the arisen amount of dangerous waste crosses the limit defined in the decision by which the consent for dangerous waste handling was given to the originator, SE, a.s. NPP Mochovce Units 3 and 4 according to §7 par.1 letter g) of the act no. 223/2001 Coll. about wastes as amended, the waste keeper is obliged to ask for the change of subjected consent according to §75 par. 1 letter a) point 2 of the act about wastes.

8.3 To keep the provisions of §3 par.1 and §4 par.1 of the act no. 543/2002 Coll. about protection of nature and landscape as amended and in case that in relation to the construction it is necessary to chop down wood or bush growing out of the forest, it is necessary to continue in compliance with § 47 of the act no. 543/2002 Coll. and they will enclose to the application for building permit also the consent of Kalná nad Hronom for chopping down the wood. In case of necessity of excavation works near existing woods, it is necessary to perform these works manually to avoid damaging of the root system.

8.4 To maintain the location and height parameter till 100 m over the landscape according to §30 par.1 letter a) of the act no. 143/1998 Coll. about civil aviation and about the change and amendment of some acts as amended. In other case it is necessary to ask the Air transport authority of the Slovak Republic for re-assessment.

8.5 In compliance with §12 par.1 letter e) of the act no. 42/1994 Coll. about civil protection of the citizens as amended, it is necessary to submit the design of communication and data network as well as radio network and VYRVAR for approval to the Ministry of Interior of the Slovak Republic.

Deadline: December 31, 2010

8.6 To maintain binding conditions of the building performance in compliance with §26 par.1 letter b) of the act no. 314/2001 Coll. about fire protection as amended, §40 and §40b of the Decree of the Ministry of Interior of the Slovak Republic no. 121/2002 Coll. about fire prevention according to Decree of the Ministry of Interior of the Slovak Republic no. 591/2005 Coll.

- a) To fill each gap in connection of two civil structures or more civil structures isolating a formed fire section from other construction spaces or free site so to respect an integrity and isolation of this structure, and thus to meet its function of a fire isolating structure only with material with the required fire resistance and fire reaction class A1 or A2

- b) To install only electric switchboards and electric panels with fire resistance declared by the subject product manufacturer to an escape route and a cable corridor in the civil structure "Reactor Building" where electric switchboards and electric panels are designed; additional enhancement of fire resistance of the electric switchboard and the electric panel by its lining with bricks, panelling or spraying is not considered to be fulfilment of the requirement for installation of the electric switchboard and the electric panel with fire resistance;
 - c) To install only ceiling with fire resistance to an escape route where the ceiling is designed in order to isolate wiring that goes through the escape route and does not meet the function for this escape route
- d) To design and implement a water curtain in order to respect the requirement for fire hazardous area between the outer side of the civil structure SO 490/1-02 "Turbine Hall II. of the Main Power Block" and the adjacent group of external transformers, while
- a) the water curtain substituting a fire isolating structure in the area of each window will prevent spread of fire from the Turbine Hall to free space between the Turbine Hall wall and transformers in the same manner as the civil structure where the window is installed during 30 minutes by water supply;
 - b) Depending on the EPS (fire detection system) signal, nozzles installed from the outside of all windows that are situated in front of the entire turbine set load with fire, at least before windows installed in quarter of the wall height behind which the turbine set with the aforementioned failure - fire will be activated;
 - c) Water to the water curtain system will be supplied by a pump backed up with a pump of the same power and start-up characteristics to full power within the time of at least 10 seconds;
 - d) An option of the water curtain manual start-up is not excluded, but this start-up will not have a retarding function with regard to the start-up from the EPS;
 - e) A proposed design will be delivered to the Presidium of Fire and Rescue Corps at least 60 days before inspection of the completed Turbine Hall
- e) To design and implement technical measures in the civil structure "Turbine Hall" so to prevent an uncontrolled spread of released flammable liquid from lubrication and cooling oil system of the steam turbine so that released liquid
- a) contacting the Turbine Hall floor at the level of ± 0.0 m is accumulated in a trap on the Turbine Hall floor and drained by a continuous pipeline to an emergency tank,
 - b) contacting the walking grid at the level of ± 0.0 m isolating the Turbine Hall floor from the area with the floor at the level of -5.5 m is accumulated in a trap below the grid and drained by a continuous pipeline to an emergency tank, while this requirement relates only to the grid the pipeline is not going through,
 - d) flowing around the outside of a pipeline penetrating the turbine hall floor to the area under the Turbine Hall ending at the level of -5.5 m has a limited contact with free space, namely installed protective sleeve around the pipeline flown around by released oil, while the protective sleeve will start immediately under the grid in the floor at the level of ± 0.0 m and will run into the continuous pipeline draining released flammable liquid to an emergency tank.

To submit drawings and a text report documenting the proposal of measured mentioned in clauses a) to c) immediately after being elaborated to the Presidium of Fire and Rescue Corps, while the subject measures will be proposed and applied for the each turbine set individually

- f) To install EPS and cables with properties relevant for fire protection in civil structures
 - a) 584/1-02 "Central Non-essential Service Water and Non-system Fire Water Pumping Station", and
 - b) 584/1-04 "Essential Service Water and System Fire Water of the II. Main Power Block Pumping Station"
and so to reduce an accidental fire load in these structures considering an absence of protected escape routes of B type from the subject structures, and make a possibility of quick escape of people from the construction by timely identification of fire by the aforementioned fire technological installation
- g) To isolate the room 101c/3, namely a staircase belonging to the fire section 80P02.01/N02 from the room 01c, namely from the essential service water pumps belonging to the fire section 80P02.01/N02C in the civil structure SO 584/1-04 "Essential Service Water and System Fire Water of the II. Main Power Block Pumping Station" with a civil structure with the required fire resistance
- h) To isolate rooms 06/31 and 06/32, namely staircases from rooms 05/31 and 05/32, namely assembling shaft in the civil structure 810/1-03 "Emergency Feed water Supply in Unit 3" with a civil structure with the required fire resistance
- i) To isolate a drainpipe intended for transport of flammable liquid from the trap to the emergency tank from the adjacent fire sections it goes through in the civil structure SO 442/1-02 "Diesel Generator Station of the II. Main Power Block" with an isolation structure with fire resistance of at least EI 90
- j) To install a drain pipe in the civil structure SO 442/1-02 "Diesel Generator Station of the II. Main Power Block" in order to assure transport of flammable liquids from the trap situated below the each diesel generator to the emergency tank, and to fit the drain pipe with a hydraulic closure in compliance with Regulation of the Ministry of Interior of the Slovak Republic No. 96/2004 Coll
- k) To install a lift in the civil structure SO 800/1-02 "Reactor Building of the II. Main Power Block" to an individual fire section; the lift will fulfil a function of a fire lift, and if two adjacent lifts fulfil the function of fire lifts, these can be in a common fire section, and to assure a redundant power supply for each lift with the fire lift function; a fire cell proposed in design documentation for isolation of the lift from other construction parts is not considered to be fulfilment of the requirement for formation of an independent fire section

- l) To install fire closures isolating a load lift shaft belonging to the fire section 80N01.03/N05 at individual floors from adjacent fire sections in the civil structure SO 801/1-02 "Auxiliary Building for the II. Main Power Block"
- m) To install a fire closure with the fire resistance of EI 90/D1 to the horizontal fire isolating structure separating the cable channel from the electric area in the civil structure SO 442/1-04 "High-pressure Compressor Station for the II. Main Power Block";
- n) To design and make ventilation of protected escape route lobbies in civil structures 805/1-02 "Longitudinal Electrical Building - Units 3&4", 806/1-03 "Cross-wide Electrical Building - Unit 3" and 806/1-04 "Longitudinal Electrical Building – Unit 4" in compliance with Annex 7 of Regulation of the Ministry of Interior of the Slovak Republic No. 94/2004 Coll
- o) To propose measures and assure their implementation in order to enhance fire resistance of vertical support structures at least to the level the highest required fire resistance has the supported structure that depends on the support structure; if obtained fire resistance of the structure fulfilling, in addition to the fire spread function, also the function of radiation protection is higher than its required fire resistance and this enhancement would be reached as a secondary phenomenon at fulfilment of the radiation protection requirements, than the fire resistance of the support structure supporting the structure fulfilling a dual function of radiation protection and fire spread protection shall be at least so as the supporting structure should have the fire resistance only at fulfilment of the fire spread prevention function
- p) To propose and install control elements of equipment limiting fire spreading and helping to control fire in internal rescue routes in compliance with the requirement laid down in Article 84 subsection 5 of Regulation of the Ministry of Interior of the Slovak Republic No. 94/2004 Coll
- q) To respect requirements of Regulation of the Ministry of Interior of the Slovak Republic No. 401/2007 Coll. at designing and execution of the construction heating
- r) To make a fire band from the structural element of D1 type with the required fire resistance in compliance with provisions of subsection 3 of Article 44 of Regulation of the Ministry of Interior of the Slovak Republic No. 94/2004 Coll. in the civil structure SO 801/1-02 "Auxiliary Building for the II. Main Power Block" where the external wall connects the fire isolating structure
- s) To inform the Presidium of Fire and Rescue Corps of any spraying or application of paint on steel structures in order to enhance their fire resistance at least 10 working days before commencement of works; to inform by fax using the fax number 02/44637535 and to attach an identification of the civil structure and localisation of the civil structure whose fire resistance should be enhanced and also a certificate of conformance of the applied product, including a written report of a notified person proving that all procedures of the compliance assessment related to the subject product have been fulfilled

- t) To submit to the Presidium of Fire and Rescue Corps the following:
- a) A declaration of conformity or a certificate issued by an independent third party informing of put of a cable system as a building product on the market in compliance with Act No. 90/1998 Coll. as amended before commencement of the cable system installation;
 - b) A declaration of conformity or a certificate issued by an independent third party informing of put of electric fire alarms, a stabile fire fighting equipment and heat and combustion gases removal equipment as building products on the market in compliance with Act No. 90/1998 Coll. as amended, to submit design documentation prepared by a person with a special certification of professional competence for designing the subject fire technical equipment; the declaration of conformity, the certificate and the design shall be submitted prior the installation;
 - c) an identification of all civil structures in a table form, including reached fire resistance and a method used for reaching the fire resistance, while the submission shall be made at least 60 days before submission of a proposal of the building owner for the final inspection proceedings;
 - d) a detailed design in accordance with the instruction specified in clause c)
 - u) To seal points of penetration of technical equipment and technological equipment through a fire isolating structure with material with the fire resistance at least the same as the civil structure through which the technical equipment and the technological equipment penetration is made
- v) To make the construction in compliance with
- a) The submitted and approved documentation of the Ministry of Interior of the Slovak Republic by the Presidium of Fire and Rescue Corps,
 - b) the proposed engineering solutions as intentional substitution approaches applied in case of a conflict resulted from the time that elapsed from the construction execution and requirements laid down in effective general binding legislation that should be applied today at change of the construction before its completion ,
 - c) conditions specified herein.

8.7 To ensure fulfilment of the conditions form NRA SR decision no. 266/2008 and 267/2008.

8.8 Detailed designs of the civil structures listed in proposition part of this decision which seismic resistance is required by basic design should be amended by specified calculations of seismic resistance verified by independent organisation that does not contribute to elaboration of the basic design and its changes. The documents about results of calculation verification should be given to the authority.

Deadline: Together with application for permission to put corresponding unit of the nuclear facility into operation.

8.9 For elaborators of the detailed design of the civil structures to elaborate the guide for calculations of the components anchoring where the seismic qualification is required. The proposal should be given to the authority for assessment.

Deadline: December 31, 2008.

- 8.10 To perform independent inspection of detailed designs of all the civil structures containing seismically qualified components from the point of view of meeting the conditions for their seismic resistance, including mutual interactions between components themselves as well as with the civil structures.
Deadline: During elaboration of implementation designs and during assembly works.
- 8.11 To ensure performance of repeated evaluation of the nuclear safety in other stages of the nuclear facility design in compliance with the requirement of NRA SR Decree no. 50/2006 Coll., Enclosure no.3 part B.I.A letter u)
Deadline: During elaboration of the basic design up to the level of implementation designs.
- 8.12 To add independent verification of the design safety evaluation, made by legal entities or natural persons independent from those who made the design in compliance with requirements of NRA SR Decree no. 50/2006 Coll., Enclosure no.3 part B.I.A letter x).
Deadline: December 31, 2008
9. The change of construction cannot be started before the permission for the change of construction before finishing comes into force.
10. Before finishing the builder is obliged to ask for substantial inspection .
11. The builder has to enable the representative of the State Building Inspection and the experts invited by them to access the site and to create the conditions for inspection performance.
12. According to § 43f of the building act to perform the construction it is possible to use only such a building product that is based on special regulations (Act no. 90/1998 Coll.) suitable for usage on site for intended purpose.

Given conditions of the decision do not impede the builder to start works according to documentation verified by building authority in this building proceeding.

At the same time the Authority by this decision changes the deadline of construction listed in binding condition no. 5 of the building permit no. 2010/86 from November 12, 1986 issued by Municipal office in Levice, department of construction and landscape planning because it reflects proposed changes, existing status of the construction and it is in full scope transformed into electronic form.

Justification

Based on application of Slovenské Elektrárne, a.s. Bratislava, NPP Mochovce Units 3 and 4 from May 27, 2008 no. SE/2008/065258 on the day of its submitting the authority started to act in the matter of work permit for change of construction before finishing "Nuclear power plant Mochovce VVER 4x440 MW 3rd construction".

The applicant has supported his submitting by letter from June 4, 2008 no. SE/2008/069203 by electronic documentation of the basic design, declaration about completeness of submitted documentation and summary of the fulfilment of requirements listed in § 11 par. 1 letter c) of the Ministry of Environment Decree no. 453/2000 Coll.

The submitted application was viewed from the points of views listed in § 62 of the building act and it was found that by performing of the construction (nor its further usage) the interests of the company are not threatened nor the rights and justified interests of the proceeding participants.

The application for the change of the construction before finishing was completed by design documentation in three copies as well as in digital form, reflecting present status of the construction as well as all the changes the builder asked for. The construction documentation meets general technical requirements for construction. Change of construction before finishing will be performed according to design documentation verified in building preceding that is a part of this decision.

The authority followed by sending the notice about its beginning to the proceeding participants known to it and involved bodies of the state administration from May 30, 2008 and at the same time it invited them to send their standpoint to construction being permitted for the field out of followed interests in 30 days from the notice delivery back to the Authority. In the proceeding following involved bodies replied: Labour inspection Nitra, Regional authority of environment Levice, department of environment items protection (hereinafter as RAE Levice, dep.EIP) – waste management RAE Levice, dep.EIP – state office for nature and landscape protection, Ministry of Interior of the Slovak Republic – Presidium of Fire and rescue brigade of the Slovak Republic, Aviation office of the Slovak Republic Bratislava. Their standpoints were included into conditions of the permission.

Village Nový Tekov, village Kalná nad Hronom, Technical inspection Nitra, Regional authority of the environment Nitra – state water management, RAE Levice, dep. EIP – state administration of air protection, Regional headquarters of Fire and rescue brigade in Nitra, public health service in Levice, Ministry of Economy of the Slovak Republic agreed with the change of construction before finishing without any comments.

Authority for railway transport regulation in Bratislava, Ministry of Health of the Slovak Republic, District authority in Nitra – department of civil protection and crisis management did not send their standpoints in given deadline that is why the building authority understands it that they agree with proposed change of construction before finishing without any comments.

Ministry of Environment SR Bratislava in its standpoint no. 7451/2008-3.4/hp. from August 8, 2008 states that it is not possible to regard the change of construction before finishing as a new activity nor a principal change of original design because administrative proceeding in the matter of permission of given activity according to special regulations was started before the act no. 24/2006 Coll. about assessment of impacts on environment and about change and amendment of some acts came into force and that is why this act cannot have an impact on activity that was permitted

before it came into force. At the same time we point to the fact that before giving the permission to put the nuclear facility into operation and consequent permission for operation it will be necessary to assess the facility according to the act about impacts on environment assessment.

The authority in relation to change of construction before finishing issued its decision no. 266/2008 in compliance with atomic act, by which there was a consent issued to implement changes influencing nuclear safety during the construction and decision no. 267/2008 by which there was permission given to implement changes in Preliminary safety report.

There were no comments from the proceeding participants.

During the proceeding the building authority did not find any reasons that would impede the permission of the change of construction before finishing.

The change of construction before finishing will not adversely affect the environment and that is why it was decided as it is listed in proposition part of the decision.

Administrative fee in amount of 6000, SKK (six thousand Slovak Crowns) was stated according to act no. 145/1995 Coll. about administrative fees as amended, part V., item no. 60 letter g) and it was paid by duty stamps.

Advice:

According to § 61 par. 1 of the administrative regulations it is possible to lodge and appeal against this decision to Nuclear Regulatory Authority of the Slovak Republic, Okružná 5, 918 64 Trnava in 15 days from this decision delivery. The appeal lodged in time has a dilatory effect.

If this decision after depletion of permissible remedial instrument comes into force, its legality can be evaluated by the Court.

If the builder does not use the legal period to submit the remedial instrument against this decision, he is obliged to ask the authority for confirmation of its validity after expiration of 15-days period from the decision delivery.

In Trnava, on August 14, 2008

Duty stamp
Stamp of Nuclear Regulatory Authority
of the Slovak Republic

Ing, Peter Uhrík
General director of
the Department of Safety Evaluation
and Inspection Activities

Will be delivered to:

1. UJV Řež, a.s. – division EGP Prague, Vyskočilova 3/741, P.O.Box 158, 140 21 Praha 4

Copy to:

1. Village Nový Tekov, the mayor, 935 33 Nový Tekov 226
2. Village Kalná nad Hronom, the mayor, ČA 55, 935 32 Kalná nad Hronom
3. TI, Mostná 66, P.O.Box 29 B, 949 01 Nitra
4. IP Nitra, jelenecká 49, 949 01 Nitra
5. KÚŽP Nitra, ŠVS, J.Kráľa 124, 949 01 Nitra
6. ObÚŽP Levice, odb. OZŽP – OH, Dopravná 14, 934 03 Levice
7. ObÚŽP Levice, odb. OZŽP – OO, Dopravná 14, 934 03 Levice
8. ÚRŽD, section of special building authority, Miletičova 19, 820 05 Bratislava 25
9. MŽP SR, Nám. L. Štúra 1, 812 35 Bratislava
10. MV SR – P HaZZ SR, Pribinova 2, 812 72 Bratislava
11. KR HaZZ in Nitra, Dolnočermánska 64, 949 01 Nitra
12. MZ SR, Limbova 2, P.O.Box 52, 837 52 Bratislava 37
13. ÚVZ SR, Trnavská cesta 52, P.O.Box 45, 826 45 Bratislava
14. RÚVZ Levice, Komenského 4, 934 38 Levice
15. LÚ SR, Letisko M.R. Štefánika, 823 05 Bratislava
16. MH SR, Mierová 19, 827 15 Bratislava 212
17. OÚ Nitra, OCOaKR, Štefánikova tr. 69, 949 01 Nitra



July, 2009

Scope of Assessment (No. 1277/2009 - 3.4/hp), issued by the Ministry of Environment of the Slovak Republic on 29 May 2009).

ANNEX 0.6



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SCOPE OF ASSESSMENT

Determined pursuant to § 30 of the Act 24/2006 Coll. on environmental impact assessment and on changes and amendments to certain laws, for assessment of impacts of the proposed activity: **“Nuclear Power Plant Mochovce VVER 4 x 440 MW – 3rd civil engineering project”**

The Proponent, **Slovenské elektrárne, a. s., plant Units 3&4 of Mochovce Power Plant, 935 39 Mochovce**, has submitted to the Ministry of Environment of SR, dept. of assessment and evaluation of impacts (hereinafter only as the “MŽP SR”) the Intent on the activity of **“Nuclear Power Plant Mochovce VVER 4 x 440 MW – 3rd Construction”** (hereinafter only as “NPP MO 3&4”) for assessment pursuant to the Act No. 24/2006 Coll., on environmental impact assessment and on changes and amendments to certain laws.

The Intent of the proposed activity represents assessment of impacts of realization of a nuclear complex and commissioning of two units of VVER 4 x 440 MW type with the aim to generate electricity to cover the electricity supplies for individual customers. The Intent of the proposed activity is in compliance with the energy policy of the Slovak Republic.

The purpose of the proposed activity is in particular:

- To secure high level of environmental protection and protection of public health;
- To establish, describe and evaluate direct and indirect impacts of the proposed activity on the environment and on the health of people;
- To explain and to compare advantages and disadvantages of the proposed activity, including its comparison **with zero alternative**;
- To determine measures, which shall prevent pollution of the environment, mitigate the environmental pollution or prevent damaging the environment;
- To acquire professional supporting documentation for issuing the decision on the permit of activity according to special regulations.

Nominal thermal output of NPP EMO 3&4 represents 1,375 MW.

The complex of NPP Mochovce – dual unit of NPP MO 3& 4 is located in the cadastre of municipalities of Nový Tekov, Kalná nad Hronom, district of Levice, Nitra region.

The suburban area of the Capital of SR Bratislava is approximately 90 km west from the NPP MO 3&4, i.e. approx. 120 km traveling by road from the proposed activity. The suburban area of Budapest, which is the Capital of the Republic of Hungary, is located approx. 85 km south-east from NPP MO 3&4 and the proposed activity. The suburban area of Vienna, which is the Capital of Republic of Austria, is located cca 145 km south-west from NPP MO 3& 4 as the proposed activity. The Czech Republic is cca 85 km from the proposed activity; Republic of Poland is cca 130 km from the proposed activity. Republic of Ukraine is 270 km from the proposed activity.

The proposed activity meets the criteria pursuant to § 18 par. 1 of the Act No. 24/2006 Coll. (hereinafter only as the “Act”) and according to its “Annex 8” it is included under chapter 2: Energy industry, item No. 4. Nuclear Power Plants and other installations including nuclear reactors, including their decommissioning and liquidation, section “A”, and therefore is subject to obligatory assessment.

The Intent of the proposed activity was submitted as zero alternative and one option of the solution, as MŽP SR on the basis of justified application of the Proponent pursuant to § 22 par. 7 of Act No. 24/2006 Coll. I. by letter No. 7451/2008-3.4/hp – 3, 4 dated 31 July 2008 has abandon the request for an alternative solution to the intended activity.

The proposed activity pursuant to Annex 13 to Act No. 24/2006 Coll. belongs to the activities, which are subject to obligatory international assessment from the view of their impact on the environment, exceeding the state borders. On the basis of this fact MŽP SR, as the party of origin, upon delivery of the Intent and that is without undue delay, informed about the proposed activity, pursuant to par. 1 § 40 of Act and in compliance with the Article 3 of the Convention on Environmental Impact Assessment (hereinafter only as the “Espoo Convention”), the Council Directive 97/11/ES, as well as in compliance with the Agreement between the Government of the Slovak Republic and the Government of the Republic of Austria, to the following contact points of the affected parties:

- Ministry of Environment of the Czech Republic;
- Federal Ministry for Agriculture, Forestry Management, Environment and Water Management of the Republic of Austria;
- Ministry of Environment and Water Management of Republic of Hungary;
- Ministry of Environment of Republic of Poland, and
- Ministry of Environment of Ukraine.

Together with the notification on launching trans-boundary assessment MŽP SR raised a question with the affected parties, whether they intend to take part in the environmental impact assessment procedure on this activity. In connection with this MŽP SR also defined the deadline for delivery of the response to this question.

Affected parties in their response to the notification on launching assessment of the proposed activity have included in the process of verification of potential impacts of the proposed activity on the environment the relevant bodies of state administration, as well as the public. The entire documentation was made available to the public in electronic format during 21 days on the web sites of the above mentioned institutions in compliance with the EIA regulations.

Austria, Republic of Hungary and Republic of Poland, after considering their delivered positions on the proposed project they stated that they cannot exclude significant negative impacts of the submitted Intent on the environment and on the health of people, and for that reason they intend to participate in the procedure of trans-boundary assessment of the proposed activity.

MŽP SR submitted the Intent for taking position pursuant to § 23 par. 1 of the Act to the following involved entities: the *competent authority* (Ministry of Economy of SR, Section of the energy sector), the *permitting authority and the affected municipalities* (Nuclear Regulatory Authority of the Slovak Republic; Municipal Office at Kalna nad Hronom; Municipal Office at Novy Tekov; Municipal Office at Stary Tekov; Municipal Office at Veľky Ďur; Municipal Office Tlmače; Municipal Office at Male Kozmálovce;) *affected authorities* (Public Health Authority of the Slovak Republic; National Labour Inspectorate of SR, dept. of labour inspection in the nuclear energy sector; District Environmental Authority Levice; Regional Environmental Authority Nitra; Office of the Nitra self-governing region; Ministry of Interior of the Slovak Republic, section of crisis management and civil protection; Presidium of the Fire-Brigade and the Rescue Service of the Ministry of Interior of the Slovak Republic; Regional Office of public health with its seat in Levice; Aviation Authority of the Ministry of Interior of SR, Slovak Water Management Enterprise, š. p., branch office Banska Bystrica; Labour Inspectorate Nitra; Technical Inspection, a.s., Bratislava; Office for Regulation of Railway Traffic Bratislava; District Authority for road traffic and road networks Levice; Regional Land Authority Nitra; District Authority, dept. of civil defense and crisis management Nitra;).

The Intent was also sent for taking the position by the *Slovak Environmental Agency Banska Bystrica*, *Ministry of Environment SR*, section of waters and energy sources; *Ministry of Environment of SR*, dept. of environmental risks management.

Pursuant to § 23 par. 4 of Act No. 24/2006 Coll. I. MŽP SR received **twenty one** positions on the Intent from the above listed entities to the assessment procedure. Several positions have been concurrent without comments or recommendations to the proposed activity.

In some of the positions there have been several concrete comments and requests, the fulfillment of which was the condition for implementing the proposed activity, but also a request to elaborate an assessment report.

The following positions on the proposed activity have been delivered from the public:

1. *Ing. Jozef Križan, Adlerova 21, 04 022 Košice* – he does not recommend realization of the activities from the technical, technological, environmental and economical points of view;
2. *Spoločnosť priateľov Slatinky, Poštová 6, 917 01 Trnava* – to assess impacts of NPP MO 3&4 on the flow rates of the river, as well as the quality of water in the river Hron below VN Veľké Kozmálovce;
3. *Združenie Slatinka, P. O. BOX 67, Ul. Bela IV. č. 6, 960 01 Zvolen* – to assess impacts of NPP MO 3&4 on the flow rates of the river, as well as on the quality of water in the river Hron below VN Veľké Kozmálovce;
4. *GREENPEACE SLOVENSKO, Nám. SNP 35, P.O. Box 58, 814 99 Bratislava 1:*
 - To complement probability assessments for occurrence of an accident with leakage of radioactivity to the environment, measures to prevent it and potential impacts.
 - To complement radwaste management for radwaste produced by NPP MO 3&4.
 - Assessment of impact of the operation of NPP MO 3& 4 on the flow rate of the river Hron
5. *VLK VÝCHODNÉ KARPATY, Ul. Kpt. Nálepku 102, 069 01 Snina;*
6. *Comments from five citizens of the Slovak Republic:*

To assess, whether the operation of the nuclear power plant NPP MO 3&4 would have negative impact on the flow rates and the quality of water in the river Hron below VN Veľké Kozmálovce or not.

If the assessment procedure proves negative impact of operation of the proposed activity on the ecosystem of Hron as a result of low residual flows caused by water offtake, there must be measures to eliminate such negative influences defined as forced investments relating to implementation of NPP MO 3&4.

Within the trans-boundary assessment the following affected parties have sent their opinions:

1. ***Republic of Poland as the affected party*** in its position states, being underpinned by an analysis developed by the State Agency for Atomism in the Republic of Poland that (besides one comment relating to severe industrial accident) did not include any further material comments on elaboration of the assessment report due to the fact that the experience with operation of pressurized water reactors and the results of probabilistic safety assessment allow assessing the occurrence of trans-boundary radiological consequences when operating Units 3& 4, as being less likely.

Nevertheless, the Republic of Poland continues to have interest in the procedure of trans-boundary assessment, which goes before the operating license for NPP MO 3&4, which should confirm, whether these Units achieve expected design parameters, in particular those having impact on release of radiology emissions to the environment, both under normal and emergency conditions.
2. ***Republic of Hungary as the affected party*** stated that the process of decision-making on the Hungarian side included those Hungarian bodies, which will be probably affected by the project, as well as the public. For the evaluation of the assumed significantly adverse influences Hungary requires incorporation of those issues into the report, which are stated in the specific requests for the scope of assessment.

The position states that the assessment report shall contain both the technical description and taking care of the environment, as well as the issues of safe operation in the maximally satisfactory manner. Therefore it is very important that the assessment report covered in detail the required preventive measures for the case of design-bases a beyond design-bases accidents.
3. ***Austria as the affected party*** stated that the trans-boundary procedure of decision-making in Austria involved all Austrian federal lands and the Austrian public. Austria

submitted summary position on the intended activity in a hard copy form, in which it was dealing with the completeness aspect according to the Espoo Convention, the European Directive on the EIA (85/337/EEC in its valid wording) and the Slovak law on assessing impacts on the environment (Act No. 24/2006 Coll. I. on environmental impact assessment). Austria paid special attention to the issue of assumed influences crossing the state borders, the aspect of reactor safety including potential accident sequences with potential consequences, but also economic aspects relating to the energy sector and the electric energy. In the comments and recommendations it formulated requests for the quantity and the quality of information, which should be included in the report on environmental impact assessment.

4. **Czech Republic as the affected party** stated that by realization of the proposed activity it is not expecting any serious trans-boundary effects on the territory of the Czech Republic. None of the bodies of state administration or the public had any comments or recommendations for the intended activity. Nevertheless it requested that as an affected party it continues to be informed about all steps in the procedure of assessing impacts of the proposed activity on the environment, and to have the report on environmental impact assessment and on impacts on the health of people sent to them.
5. **Ukraine as the affected party** did not respond to the notification on implementation of NPP MO 3&4 according to the Espoo Convention.

After studying the submitted Intent and taking in regard the nature of the Intent and the delivered positions, MŽP SR in cooperation with the competent authority, the permitting authority and the affected authority, and after discussions with the submitting party, it determined the following scope of assessment of the proposed activity according to § 30 par. 2 and par. 3 of Act No. 24/2006 Coll. I.:

1. ALTERNATIVES FOR FURTHER ASSESSMENT

- 1.1 For further assessment of the impact of proposed activity – “**Nuclear Power Plant Mochovce VVER 4 x 440 MW – 3rd project**” besides the **zero alternative** (the status when the proposed activity does not be realized) it also requires **finalization of the proposed activity, which was included in the submitted Intent**.

2. SCOPE OF ASSESSMENT FOR THE PROPOSED ACTIVITY

2.1 General Conditions

- 2.1.1 With respect to the nature and the scope of the proposed activity and its proposed location it is necessary that the assessment report contained elaboration of all items as stated in Annex 11 to the Act No. 24/2006 Coll. I. adequately to the nature of proposed activity.
- 2.1.2 For assessment of the proposed activity no time schedule is set for elaboration of the assessment report, nor any specific requirements limiting the time scope of assessment.
- 2.1.3 The Proponent shall deliver to MŽP SR, dept. of environmental impact assessments, 29 complete assessment reports, 8 hardcopies of the final summary and minimum 5 text parts, if possible also the graphical part of the assessment report on electronic data carrier in Slovak language.
- 2.1.4 The Proponent shall deliver to MŽP SR, dept. of environmental impact assessments 4 complete hardcopies of assessment reports and 4 text parts, if possible also the graphical part of the assessment report on electronic data carrier in English language, for the sake of accelerating the communication between the party of origin – MŽP SR, and the affected parties, i.e. Ministry of Environment and Waters of the Republic of Hungary, Ministry of Environment of the Republic of Poland and – Federal Ministry of Agriculture, Forestry Management, Environment and Water Management of the Republic of Austria.

2.1.5 On the basis of conditions set by the Agreement between the Government of the Slovak Republic and the Government of Republic of Austria on implementation of the Convention on environmental impact assessment having trans-boundary impact (hereinafter only as the "Agreement") it would be necessary for the Slovak party as the party of origin to submit to the Austrian affected party sufficient summary of the assessment report, which would include the basic data on the proposed activity, i.e. title of activity, name and the seat of the Proponent, the purpose, nature, scope of activity, place of performing activities, brief description of the technical and technological solution, expected trans-boundary effects, graphical enclosure – in German. Further the assessment report must sufficiently respond to questions, comments and recommendations, which were required in the positions from federal lands and from the Austrian public, and that is in particular:

- ✓ Description of the potential severe damage of the environment on the basis of realized project, which includes primarily the population, fauna, flora, soil, water, air, climate, material goods, including architecturally valuable structures and landscape, as well as mutual operation of these factors;
- ✓ Description of potential serious influences on the environment by the proposed project, as well as impacts on the health and safety of persons as a result ● existence of project facilities; ● utilization of natural reserves; ● probability of accident occurrence; ● emissions of pollutants; ● causing inconvenience in the working as well as external environment; ● spent nuclear fuel management and management of various types of nuclear waste.
- ✓ Description of measures with the aid of which it would be possible to prevent, reduce or even to balance the serious negative consequences of the project on the environment;

The above stated summary of the assessment report shall be delivered by the Proponent to the MŽP SR **in two copies in hard copy and two copies on electronic data carrier in German and in Slovak languages.**

2.1.6 The Proponent, for the sake of accelerating the communication within the trans-boundary assessment procedure of the proposed activity between the party of origin – MŽP SR and the affected parties - Ministry of Environment and waters of Republic of Hungary, Ministry of Environment of the Republic of Poland, shall deliver according to his own consideration to the MŽP SR, dept. of environmental impact assessments a short summary of the assessment report for the affected parties, Republic of Poland and Republic of Hungary, in their native languages, and that is two copies as hard copy and two copies on electronic data carrier in Polish and in Hungarian languages.

2.1.7 Further procedure of the trans-boundary assessment shall relate to article 5 par. 2 of the Espoo Convention, i.e. consultations, if the affected party shows interest in such consultations, MŽP SR upon agreement with the Proponent and the affected party shall set the date, venue and the content of such consultations. If the affected party is willing to take part also in a public hearing on the proposed activity MŽP SR shall inform the affected party sufficiently in advance about the venue and the time of such hearing.

2.2. Specific Requirements

The comments received from the parties to the assessment procedure resulted in the need to elaborate in more details in the assessment report the following issues relating to the proposed activity:

2.2.1. In part **II. Basic data on the proposed activity, item 4.** Location - to complement (to describe the location of the complex of the nuclear installation of NPP Mochovce – dual unit of NPP MO 3&4 – region, district, cadastral area of the municipality, land plot, parcel numbers, title deeds).

- 2.2.2. In part II. **Basic data on the proposed activity, item 14. Permitting authority** to complement also the type of required permit for the proposed activity according to special regulations.
- 2.2.3. To complement the list of abbreviations into part A. INTRODUCTION or to B. STRUCTURE OF THE ASSESSMENT REPORT.
- 2.2.4. To complement and precise the chapter **Geology and seismology** – with regard to the fact that in the new manual of the IAEA - Evaluation of seismic hazards for nuclear installations, DS422, which is currently undergoing the commenting procedure by the member states of the IAEA, art. 2.12 (page 6) mentions the minimal recommended value for the maximal horizontal acceleration on the terrain surface (PGA) for the new projects JZ 0.15 g, which is higher than the original recommended value of 0.10 g, which remains to be valid for the existing nuclear installations.
In the event that the new recommended value of SL-2 applies for NPP Mochovce, 3rd project, then we are suggesting adjusting the wording on page 40 of the Intent, the last sentence in the meaning that the adopted value of PGA 0.15 g for NPP Mochovce 3rd project results also from international recommendations and it is not only a result of a conservative approach to setting the seismic level SL-2 for NPP Mochovce, 3rd project.
- 2.2.5. To complement chapter **Surface water**...with the description of sediments – what kind of sediments, which form approx. 50% of the captured volume in the water reservoir Veľké Kozmálovce, due to documenting the yield of the service water source.
- 2.2.6. To precise chapter on Energy sources (p. 70 of the Intent). Numerical data on generated/consumed electricity to be reviewed or confirmed (482.976 MWh is not 1.07% from the total generated energy per year).
- 2.2.7. To make adjustments in the chapter – **Emergency plans**:
- Para 1*
- Legislation governing emergency planning for the case of incident or accident of a nuclear installation does not include a notion of external and internal emergency plans – to be modified;
 - To complement the scattering model for forecasting radiation in the atmosphere;
- Para 2, first indent*
- Committee of the Government of SR - not existing – to be corrected, *Para 2, first indent*
- Para 2, second indent*
- There are no regional emergency committees – to be corrected;
 - i.e. there are no regional administrative bodies, regional authorities – to be corrected;
 - Plans for protecting the public (these are external emergency plans or some other plans) are not approved by the head of regional authority and are not agreed by UJD – to be corrected;
- Para 3*
- Official abbreviation of the organization of emergency response is not ERO – to be corrected;
- Para 4*
- The main roles of the organization of emergency response are not in compliance with the legislation – to be corrected;
- 2.2.8. To evaluate the impacts of the future operation of NPP EMO 3&4 on the surrounding environment in a complex manner focusing primarily on the assessment of increase of the risk for the inhabitants living in the vicinity resulting from commissioning of MO3&4, in the risk, which the population is facing due to the existence of nuclear installations, which are already in operation in the given location - NPP EMO 1&2 (including the operation of the final processing of liquid radwaste (FS KRAO) and the National Repository of Radwaste (RU RAO). So to prove that the expected impact relating to the proposed activity is negligible and with this rationale to defend the request

of the Proponent to abandon the alternative solution for the "Nuclear Power Plant Mochovce VVER4x440 MW 3rd project".

- 2.2.9. Chap. V. *Comparison of alternatives for the proposed activity and the proposal of an optimal alternative, part: Protection from ionizing radiation, physical protection and emergency planning*, p. 108 – the second paragraph mentions national regulatory authority – to give the name of this authority.
- 2.2.10. Chap. V. *Comparison of alternatives for proposed activity and the proposal of the optimal alternative, part Protection against ionizing radiation, physical protection and emergency planning*, p. 109 – the last indent, if there is an agreement on mutual cooperation, it should state a concrete number of such agreement, the title and the date from when it is effective (or will be effective).
- 2.2.11. Chap. V. *Comparison of alternatives of proposed activity and the proposal for optimal alternative, part Conclusion*, p. 111 – The text below this title is too brief and unclear. For example, it includes a very non specific reference to part IV of the Intent, which however has 41 pages. The conclusion should be formulated in a clear and unambiguous way, comprehensibly and if necessary, it should be supported by concrete references to the preceding text.
- 2.2.12. To state the list of authors of the assessment report (the responsible researcher, project manager, research team) by names and not to present the authors of the Intent only in a form of illegible signatures.**
- 2.2.13. To state the latest possible information about the current status of the environment. To complement up-to-date data on average monthly air temperatures, to evaluate the air stability. To complement the temperatures of the Hron stream before the discharge and after the discharge of cooling water from the power plant. To give an overview of radioactive burden of measured values from 24 monitoring stations - TDS, which monitor the environmental burden. To complement the results from the monitoring stations monitoring the seismology values of the affected area.)
- 2.2.14. To incorporate the balance review of the Hron river from the profile of the planned water works Slatinka until the estuary while taking into consideration the existing permitted offtakes of surface water and the expected demands for offtake of water relating to the planned activities in the area of interest with the aim to preserve the minimal ecological flows below the water works Kozmálovce while having required offtake after commissioning of NPP MO 3&4.
- 2.2.15. To review whether the operation of the nuclear power plant NPP MO 3&4 would have a negative impact on the flow and the quality of water in the Hron river below the VN Veľké Kozmálovce or not. If the assessment procedure demonstrates negative impact of operation of the proposed activity on the ecosystem of Hron as a result of low residual flow rates caused by the water offtake, the measures for elimination of such negative impacts must be defined as forced investments relating to implementation of NPP MO 3&4.
- 2.2.16. To complement information relating to historical records of more significant floods on the Hron river. The last year recorded as having floods was year 1981. To complement assessment of occurrence of floods currently, potentially for the past period.
- 2.2.17. To make an assessment how the situation would be resolved if the Slovak Water Management Company, state enterprise, the branch office Banská Bystrica, as the administrator of water structure Veľké Kozmálovce would be unable to secure supply of surface water necessary for after-cooling of reactors of EMO 1,2,3,4, due to decline in the usable reservoir storage VS Veľké Kozmálovce down to 50% and in case of longer-term deficit inflows below $Q_{364} = 9,233 \text{ m}^3 \cdot \text{s}^{-1}$. Because the administrator of VS must secure objective need in this section representing minimal flow in the profile VS Veľké Kozmálovce in the amount of cca $11 \text{ m}^3 \cdot \text{s}^{-1}$ corresponding to Q_{355} of the daily water (currently there is a temporary decision and due to construction of EMO there is a minimal

flow rate set at the profile of VS Veľké Kozmálovce at $6.6 \text{ m}^3 \cdot \text{s}^{-1}$) so it is necessary to review this situation and to suggest relevant measures due to increased offtake of cooling water expected for NPP MO 3&4, in order to prevent increase in the balance tension in relation to the minimal residual flows, which would be environmentally not sustainable. During the period of minimal flows on the Hron river this may cause inability to cover the water needs for other users and their regulation and also to tension with respect to the quality of surface water in the problematic indicators, such as N-NO_3^- , N-NH_4^+ , or the water temperature. To propose other alternative for cool down of reactors of EMO 1,2,3,4 for example system of air cooling.

- 2.2.18. To complement the part *Basic data on the proposed activity* - data on sources of pollution. It should include data on the expected activity of discharges into the atmosphere and to surface water during normal operation, including operational conditions on the level of operational limits (in particular limits for leakages in the tightness of fuel cover, leakages in the primary and the secondary circuits).
- 2.2.19. To respect that the annual balance limit for waste water discharged to surface waters for the tritium activity has already been drawn by the operation of NPP MO units 1&2 on the level of 60-80 % and for operation of four units it would be necessary to adjust the limit. The tritium in waste water represents a dominant path for exposure of a critical group of the population living in the vicinity.
- 2.2.20. To complement also more details on the systems of cleaning of gaseous and liquid waste before they are discharged, more details on the monitoring systems monitoring their activity and on the possibilities of controlling discharges and coordination of discharges with the first dual unit of MO.
- 2.2.21. In *part C, chapter III, item 1. – Impact on the population* – to complement results of model evaluation of impacts of discharges to the dosage load on the population in the vicinity. The models should evaluate not only discharges on the level of current values of discharges (according to Units 1 and 2 of NPP MO 1&2), but also discharges on the level of expected limits for units 3 and 4 - NPP MO 3&4, potentially location limits.
- 2.2.22. In the analyses to state also partial contributions of individual paths of radiation and to take in regard also the radionuclide, for which there are no limits set, for example C -14 in air pollutants.
- 2.2.23. Within assessment of impacts with trans-boundary effect to assess at least the burden on the critical group of the population abroad. Although it is expected that the radiation exposure would be very low, it is still necessary to prove it with a model calculation, the statement that the impact of the proposed activity abroad would be negligible is perceived as insufficient in this case. In connection with this it can be expected that according to article 37 of the EURATOM Treaty the European Commission would require relatively detailed information on trans-boundary influences of the proposed activity.
- 2.2.24. In *part C, chapter III, items 4 to 6* – to assess and elaborate in more details influences on water ratios, soil and air, so that the proposed activity could be sufficiently reviewed.
- 2.2.25. In *part C, chapter III, item 19* – to complement operational risks with the analysis of operational risks and a model evaluation of the influence of selected extraordinary events – accidents – on the environment and radiation exposure of the population. To state the measures for prevention and for potential consequences in case of an accident including leakage of radioactivity.
- 2.2.26. In *part C, chapter IV. – Measures* - to analyze in more details in particular technical, technological and operational measures for prevention, elimination, minimization and compensation of impacts on the environment, compared to the existing units of NPP MO 1&2 also in connection with the original design of NPP MO 3&4. To also state all modifications on structural and technology parts compared to the originally approved design (for example, measures to strengthen the main supporting civil structures and

technology should respect latest available information on seismic characteristics NPP Unit 3. and 4. removal of structural parts containing asbestos, etc.) and to assess the condition of the existing engineering structures and technology equipment from the time of their conservation until the present time.

- 2.2.27. To complement the list of individual types of waste, which are created during the construction of NPP MO 3&4 itself together with the estimation of their quantity and the method of handling, including waste, which is suitable for repeated discharge into the environment – to waste dumps, etc. (In compliance with the Decision of the Nuclear Regulatory Authority of SR No. 246/2008, which states the building, demolition and reconstruction works, during which replacement of several equipment and materials is going to take place according to the relevant consent from the District Environmental Office Levice).
- 2.2.28. To state the quantitative and qualitative data on inputs and outputs of realized activity and to propose monitoring of pollutants together with measures for elimination of their negative impact.
- 2.2.29. To assess impacts on the environment and the health of people and to suggest measures for their elimination not only during the phase of construction and operation, but also in the phase of decommissioning and liquidation of these units, also these influences to be reviewed in a complex manner from the view of their significance and the time development of the review. (Austria, as the affected party, requests in its position to review and to establish the ratio of diseases, such as thyroid diseases and leukemia, which could be provably caused by radioactivity while securing possibility to establish consequences of operation on the health of population in the affected area).
- 2.2.30. To state what method would be used to address safety issues in replacing the spent fuel, to state the method of its transportation to the interim storage, to the repository, as well as the method of its disposal from the material and timing point of view. To complement data on storage of spent nuclear fuel. (To finalize the part on radioactive waste management originating from NPP MO 3&4. To complement data on handling high radioactive nuclear fuel, the data on the quality and the capacity of the interim storage of spent nuclear fuel; to specify solutions necessary for securing storage of this high radioactive hazardous material.)
- 2.2.31. To describe the method of sludge disposal, this is produced when disposing with the waste water as part of the activity; to state the method of sludge storage, as well as data on its quantity and quality.
- 2.2.32. To assess influences of the activity on the health of people according to selected demographical and health indicators of the population living in the vicinity of the Nuclear Source Mochovce, including social and economic consequences and the context, disturbing relax and quality of life and acceptability of the activity for the affected inhabitants while using results from the current evaluation of the health condition of the population living in the vicinity of NPP Mochovce prior commissioning and during operation of Units 1& 2 and expected development after commissioning of Units 3&4.
- 2.2.33. In connection with assessment of the impact of activity on the environment and the health of people to propose measures for their elimination not only during the phase of construction and operation, but also during the phase of decommissioning and liquidation of these units, and these influences to be reviewed in a complex manner from the view of their significance and the time development of the assessment.

Requests of the Republic of Poland as the affected party in the trans-boundary assessment:

- 2.2.34. To take in regard aspects of nuclear safety for the proposed activity, this is related to provision of detailed data relating to the method and procedure for intervention and information in case of severe accident (Accident Response).

Requests of the Republic of Hungary as the affected party in the trans-boundary assessment:

- 2.2.35. To complement data documenting how Units 3&4 of nuclear power plant Mochovce would meet maximal standard of nuclear safety valid at present.
- 2.2.36. To complement information about how the requirements for design-basis accidents have been addressed. To set the limits for leakage from hermetic areas (design tightness) as well as what other safety measures are available (for example the system of localization of the accident, the spraying system, system of burning hydrogen) and what preventive effects these measures may have in case of leakage from the primary circuit.
- 2.2.37. To prove how the power plant is prepared for an earthquake, this may occur in the area with respect to the seismic sensitivity of the area.
- 2.2.38. To complement information about discharges, as well as about their characteristics and distribution possibilities and on the basis of meteorological information from the location to define the territory of influence of the proposed activity.
- 2.2.39. To state how the spent fuel would be handled and what would be the influence of spent fuel on the environment during the entire life cycle of the fuel.
- 2.2.40. To prove safety of operation of the nuclear power plant also by how the spent fuel is being handled and what would be the influence of the spent fuel on the environment during the entire life cycle of the fuel.
- 2.2.41. To describe in details a well functioning monitoring network. To consider possibility of access by official Hungarian authorities responsible for prevention of damages to the on-line system of measuring radioactivity in the vicinity of the nuclear power plant Mochovce in Slovakia.

Requirements of Austria as the affected party in the trans-boundary assessment:

- 2.2.42. To describe in significantly greater detail the equipment and the conditions of its operation.
- 2.2.43. To complement information on nuclear fuel and on conditions of its use (the type, enrichment, the quantity, number and condition of fuel elements), as well as conditions for operation and the period of employment in the reactor (fuel burn-up time).
- 2.2.44. To describe radwaste management and discharges and their impact on the environment.
- 2.2.45. To confirm or to defeat the consideration in the Intent to increase the output by nearly 22%. (While the thermal output of the reactor (primary circuit) is stated the same as in the original design on the level of 1,375 MW, the electric output is reported as 535 MW gross.)**
- 2.2.46. To specify the detailed technical descriptions of planned changes in the primary and secondary circuits.
To describe in details significant changes compared to the originally approved design with the emphasis on the safety aspect, as stated by Golder (2008, page 100 of the Intent). To analyze improvements in the realized activity, this should be documented with appropriate results from the safety analysis.
To pay special attention to the following topics in particular, as these have extraordinary importance from the safety aspect, not only in connection with potential trans-boundary impacts (BT 2008):
- ✓ Severe accidents (to state the measures for preventing and mitigation of consequences);
 - ✓ Improved tightness of Hermetic zones and realization of systems for locating design accidents – bubbler tower system (Confinement and the bubbler tower system);
 - ✓ Potential seismic threat on the location;
 - ✓ Integrity of the reactor pressure vessel;
 - ✓ Reliability according to the control system (I&C criteria).

- 2.2.47. To explain, why the maximal horizontal acceleration was increased to 0.15 g in connection with the fact that the activity is realized in a seismic area.
- 2.2.48. To assess resistance of nuclear installation against external events, such as malice aircraft collision.
- 2.2.49. To assess solution of the realized activity in the area of fire protection compared to the original design and to describe how the deficits conditioned by the original design of the proposed activity have been resolved (recommendations of the IAEA 1999).
- 2.2.50. To describe the permitting procedure and expected periods in the next step according to Act No. 24/2006 Coll. I. on environmental impact assessment and the Act No. 541/2004 Coll. I. on peaceful use of nuclear energy (Atomic Act).
- 2.2.51. To describe the status of insurance for the case of accident (financial coverage for nuclear damage in Slovakia)
- ✓ DBA - design-base accidents
 - ✓ BDBA - beyond design-base accidents
- 2.2.52. To add other relevant comments and recommendations from the position of Austria.
- 2.2.53. To perform thorough analysis of all other comments resulting from the positions of the parties to the assessment procedure by the party of origin, and also the affected parties submitted on the Intent according to the national law, the Espoo Convention and the Bilateral Agreement between Austria and the Slovak Republic. Justified comments from the positions to be incorporated in the assessment report.

3. NOTICE

Pursuant to § 30 par. 4 of Act No. 24/2006 Coll. the Proponent, in cooperation with the affected municipality, is obliged to inform the public without undue delay about the determined scope of assessment using suitable manner.

Copies of positions on the Intent delivered to the Ministry according to § 23 par. 4, Act No. 24/2006 Coll. I. were handed over to the Proponent during the determination of scope of assessment.

Mgr. Daniela Ž i š k o v á
Commissioned with managing the dept. of environmental
Impact assessments

Encl.: Minutes from the scope of assessment

Delivered to:

1. **Slovenské elektrárne, a. s, Bratislava – Atómové elektrárne Mochovce, závod, Hraničná 12, 827 36 Bratislava 212,**
2. **Municipal Office Kalna nad Hronom, Červenej armády 55, 935 32 Kalná nad Hronom**

Cc: for information

3. **Ministry of Economy of SR, Energy Section, Mierová č. 19, 827 15 Bratislava 212**
4. **NUCLEAR REGULATORY AUTHORITY OF THE SLOVAK REPUBLIC, Bajkalská č. 27, P. O. BOX č. 24, 820 07 BRATISLAVA 27;**
5. **National Labour Inspectorate of SR, dept. of labour inspection in the nuclear energy sector, Špitálska č. 8, 815 07 Bratislava 1;**

6. Public Health Office of the Slovak Republic, Trnavská cesta 52, P.O.BOX 45 , 826 45 Bratislava;
7. Regional Office of public health Levice, Komenského č. 4, 934 38 Levice
8. District Environmental Office Levice, L. Štúra č. 53, 934 26 Levice;
9. Office of the Nitra self-governing region, Štefániková č. 69, 941 01 NITRA
10. District office for road transportation and roads Levice, L. Štúra 53, 934 26 Levice
11. Regional Environmental Office Nitra, Janka Kráľa č. 124 , 949 01 Nitra
12. Regional Land Office in Nitra, Štefániková tr. 69 949 80 Nitra,
13. Regional office of department of Civil Protection and crisis management Nitra, Štefániková tr. 69 949 80 Nitra
14. Ministry of Interior of the Slovak Republic, Presidium of Fire and Rescue Coprs, Drieňová 22, 826 86 Bratislava,
15. Civic Aviation Office of the Ministry of Interior, Airport M. R. Štefánika, 823 05 Bratislava 21
16. Slovak Water Management Company, plc. Banská Bystrica, Partizánska ceta 69, 974 98 Banská Bystrica,
17. Labour Inspectorate Nitra, Jelenecká cesta 49, 949 01 Nitra,
18. Technical Inspection a.s., Headquarter Trnavská cesta 56, 821 01 Bratislava 2,
19. Railway Regulation Office , Miletičová 19, 821 08 Bratislava 2,
20. Ministry of Environment of the SR, Department of environmental management hazards, Nám. L. Štúra č. 1, 812 35 Bratislava,
21. Ministry of Environment of the SR, Division of water and energy sources, Nám. L. Štúra č. 1, 812 35 Bratislava,
22. Ministry of Environment of the SR, Division of Geology and Natural Resources, Nám. L. Štúra č. 1, 812 35 Bratislava,
23. Municipal Office Novy Tekov, 935 33 Nový Tekov
24. Municipal Office Stary Tekov, Tekovská 1, 935 26 Starý Tekov
25. Municipal Office Veľky Ďur, Hlavná 80, 935 34 Veľký Ďur
26. Municipal Office Tlmače, Nám. odbojárrov 10, 935 21 Tlmače
27. Municipal Office Male Kozmálovce, 935 21 Tlmače ,
28. Slovak Environment Agency, CMŽP, Ing. Vladimír Lazorišák, Ďarková 19, 949 01 Nitra,



July, 2009

Basic nuclear laws

ANNEX 0.7



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LIST OF BASIC NUCLEAR LAWS

INTERNATIONAL AGREEMENTS AND DOCUMENTS

1. **Euroatom:** The European Atomic Energy Community.
2. **Vienna Convention:** 70/1996 Coll. Notice of the Ministry of Foreign affairs of the Slovak republic Vienna Convention on Civil Liability for Damage caused by Nuclear Event.
3. **Joint Protocol of the Application of Vienna Convention:** 71/1996 Coll. Notice of the Ministry of Foreign Affairs to the Application of Vienna Convention and Paris Convention.
4. **Convention on Nuclear Safety:** 163/1997 Coll. International Convention on Nuclear safety.
5. **Convention on the Safety of Spent Fuel Management:** 125/2002 Coll. Notice of the Ministry of Foreign Affairs to the Joint Convention on the Safety of Spent Fuel Management.
6. **Espoo Convention:** Convention on Environmental Impact Assessment in a Transboundary Context done at Espoo (Finland), on 25 February 1991.

EU LAWS

1. **Directive on shipments of radioactive waste:** Council Directive 92/3/Euratom on the supervision and control of shipments of radioactive waste between Member States and into and out of the Community.
2. **Euroatom safeguards:** Commission Regulation (Euratom) No. 302/2005 of 8 February 2005 on the application of Euratom safeguards.
3. **Regulation on investment projects definition in accordance with Treaty on Establishment of European Atomic Energy Community:** Council Regulation (Euroatom) No. 2587/1999 as of 2 December 1999 defining the investment projects to be communicated to the Commission in accordance with Article 41 of Treaty establishing the European Atomic Energy Community.
4. **Directive on safety standards for the protection of the health of workers and the general public:** Council Directive 96/29/EUROATOM of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation.
5. **Directive on the assessment of the project on the environment:** Council Directive of 27 June 1985 on the assessment of the effects of certain public and private projects on the environment 85/337/EEC.

SLOVAK LAWS

1. **Atomic Act:** Act No. 541/2004 Coll. as of September 9, 2004 on Peaceful Use of Nuclear Energy as amended and supplemented by some other Acts.
2. **Act on the National Nuclear Fund:** Act No. 238/2006 Coll. as of March 16, 2006 on the National Nuclear Fund for the Disposal of Nuclear facilities and for Handling Spent Nuclear Fuel and Radioactive Waste as amended and supplemented by some other Acts.
3. **Act on the Public Health:** Act No. 126/2006 Coll. of February 2, 2006 on the Public Health as amended and supplemented by some other Acts.

4. **Act of the Environment:** Act No. 17/1992 Coll. as of December 5, 1992 on the Environment as amended and supplemented by some other Acts.
5. **Act No. 26/2002 Coll.** on the Conditions on Control of Import, Export and Brokerage Concerning Goods and Technologies which are Subject to International Control Regimes and on Amendment to Act No. 455/1991 Coll. on Small Trade Business (Small Trade Act) as amended by later regulations.

ORDINANCE OF THE GOVERNMENT

1. **Ordinance on Handling the Institutional Radioactive Waste:** Ordinance of the Government of the Slovak Republic No. 334/2006 Coll. as of May 17, 2006 on Details Concerning Handling the Institutional Radioactive Waste.
2. **Ordinance on Protection of Workers' and Citizens' Health against Ionising Radiation:** Ordinance of the Government of the Slovak Republic No. 345/2006 Coll. as of May 10, 2006 on Basic Requirement for the Protection of Workers' and Citizens' Health against Ionising Radiation.
3. **Ordinance on Protection of External Workers' Health against Ionising Radiation:** Ordinance of the Government of the Slovak Republic No. 346/2006 Coll. as of May 3, 2006 on Basic Requirement for the Protection of External Workers' Health against Ionising Radiation during work performance in the controlled area.
4. **Ordinance on Radiation Monitoring Network:** Ordinance of the Government of the Slovak Republic No. 347/2006 Coll. as of May 10, 2006, which defines details on Radiation Monitoring Network.
5. **Ordinance on Providing Control of High Activity Radiators and Abandoned Radiators:** Ordinance of the Government of the Slovak Republic No. 348/2006 Coll. as of May 17, 2006 on basic Requirements for Providing Control of High Activity Radiators and Abandoned Radiators.

REGULATIONS

1. **Regulation on Non-proliferation of Nuclear Weapons:** Regulation of the Ministry of Foreign Affairs of the Slovak Republic as of March 29, 1974 No. 61/1974 to the Treaty on Non-proliferation of Nuclear Weapons.
2. **Regulation on Special Material and Equipment:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic as of January 12, 2006 No. 46/2006 Coll. on Special Material and Equipment, which are subject to supervision of the Nuclear Regulatory Authority of the Slovak Republic.
3. **Regulation on Nuclear Material Limits:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic as of January 12, 2006 No. 47/2006 Coll. on details concerning maximum limits of nuclear material and radioactive waste, in the case of which nuclear damage is not expected.
4. **Regulation on Details of Notification of Operational Events:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 48/2006 on Details of Notification of Operational Events and Events During Shipment as well as Details of Investigation of their Reasons.
5. **Regulation on Nuclear Safety Review:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic as of January 12, 2006 No. 49/2006 Coll. on Periodic Nuclear Safety Review.

6. **Regulation on details Concerning the Nuclear Safety Requirements:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 50/2006 on details Concerning the Nuclear Safety Requirement for Nuclear Installations during Siting, Design, Construction, Commissioning, Operation, Decommissioning and Closure of Repository, as well as criteria for Categorisation of Classified Equipment into Safety Classes.
7. **Regulation on Requirements for Prevision of Physical Protection:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 51/2006 Coll. on Details Concerning Requirements for Provision of Physical Protection.
8. **Regulation on Professional Competency:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 52/2006 on Professional Competency.
9. **Regulation on Requirements for Management of Nuclear Material:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 53/2006 on Details Concerning Requirements for Management of Nuclear Material, Radioactive Waste and Spent Fuel.
10. **Regulation on Accountancy For and Control of Nuclear Material:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 54/2006 on Accountancy For and Control of Nuclear Material as well as Notification of Selected Activities.
11. **Regulation on Emergency Planning:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 55/2006 on Details Concerning Emergency Planning in Case of Nuclear Incident or Accident.
12. **Regulation on Requirements for Quality System Documentation:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 56/2006 on Details Concerning Requirements for Quality System Documentation of Authorisation Holders as well as Details Concerning Quality Requirements for Nuclear Installations, Details Concerning Quality Requirements for Classified Equipment and Details Concerning the Scope of their Approval.
13. **Regulation on Shipment of Radioactive Materials:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 57/2006 on Details Concerning the Requirements for Shipment of Radioactive Materials.
14. **Regulation on Preparation of Nuclear Installation Documentation:** Regulation of the Nuclear Regulatory Authority of the Slovak Republic No. 58/2006 on Details Concerning the Scope, Content and Method of Preparation of Nuclear Installation Documentation Needed for Certain Decisions.



July, 2009

Basic energy laws

ANNEX 0.8



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LIST OF BASIC ENERGY LAWS

Regulations EU

1. **Directive on internal electricity market:** Directive 2003/54/EC of the European Parliament and of The Council of 26 June 2003 concerning common rules for the internal market in electricity and repealing Directive 96/92/EC.
2. **Directive on security of electricity supply:** Directive 2005/89/EC of the European Parliament and of The Council of 18 January 2006 concerning measures to safeguard security of electricity supply and infrastructure investment.
3. **Directive on renewable energy sources:** Directive 2001/77/EC of the European Parliament and of The Council of 27 September 2001 on the promotion on the electricity produced from renewable energy sources in the internal electricity market.
4. **Council directive on restructuring for the taxation of energy products and electricity:** Council Directive 2003/96/EC of 27 October 2003 restructuring the Community framework for the taxation of energy products and electricity.
5. **Directive on the promotion of cogeneration:** Directive 2004/8/EC of the European Parliament and of The Council of 11 February 2004 on the promotion of cogeneration based on a useful heat demand in the internal energy market and amending Directive 92/42/EEC.
6. **Regulation on cross-border exchanges in electricity:** Regulation (EC) No 1228/2003 of the European Parliament and of The Council on condition for access to the network for cross-border exchanges in electricity.
7. **Directive on internal market in natural gas:** Directive 2003/55/EC of the European Parliament and of The Council of 26 June 2003 concerning common rules for the internal market in natural gas and repealing Directive 98/30/EC.
8. **Regulation on applying Regulation on notifying the Commission of investment projects in electricity sectors:** Commission Regulation (EC) No 2386/96 of 16 December applying Council Regulation (EC) No 736/96 of 22 April 1996 on notifying the Commission of investment projects of interest to the Community in the petroleum, natural gas and electricity sectors (Text with EEA relevance).

SLOVAK LAWS

1. **Act on Energy:** Act No. 656/2004 Coll. on Energy as amended and supplemented by some other Acts.
2. **Act on Regulation:** Act No. 503/2005 Coll. on Regulation in Network Industries as amended and supplemented by some other Acts.
3. **Act on Heat Energy:** Act No. 657/2004 Coll. on Heat Energy, as amended and supplemented by some other Acts.
4. **Act on Waste Management:** Act No. 223/2001 Coll. on Waste Management as amended and supplemented by some other Acts
5. **Water Act:** Act No. 364/2004 Coll. on Waters and on Amendment Supplement to the Act of the National Council of the Slovak Republic No. 372/1990 Coll. on Offices as amended and supplemented by some other Acts.
6. **Act on air Protection:** Act No. 478/2002 Coll. on Air Protection and on Amending and Supplement to the Act. No. 401/1998 Coll. on Charges for the Environment Pollution as amended and supplemented by some other Acts.

7. **Act on Civil Protection of Population:** Act of the National Council of the Slovak Republic No. 42/1994 Coll. on Civil Protection of Population as amended and supplemented by some other Acts.

ORDINANCE OF THE GOVERNMENT

1. **Ordinance on Electricity Market Rules:** Ordinance of the Government of the Slovak Republic No. 124/2005 Coll. as of March 30, 2005, which lays down rules for operation of electricity market
2. **Ordinance on Professional Skills:** Ordinance of the Government of the Slovak Republic No. 360/2006 Coll. as of March 3, 2006, which lays down details of professional skills tests, establishment and activities of examining boards, content of professional skills certificate.
3. **Ordinance on Charges for Waste Usage:** Ordinance of the Government of the Slovak Republic No. 755/2005 as of December 15, 2004, which lays down amount of non-regulated payment, charges and details related to changes for water usage.
4. **Ordinance on Gas Market:** Ordinance of the Government of the Slovak Republic No. 123/2005 Coll. as of March 30, 2005, which lays down rules for operation of gas market.

REGULATIONS

1. **Regulation on Heat Generation Rules:** Regulation of the Ministry of Economy of the Slovak Republic No. 136/2005 Coll. as of March 23, 2005, which lays down rules for heat and electricity generation by combined generation of heat and electricity.
2. **Regulation on Calculation of Damage caused by Unauthorised Electricity Offtake:** Regulation of the Ministry of Economy of the Slovak Republic No. 154/2005 Coll. as of April 6, 2005, which lays down rules for calculation of damage caused by unauthorised electricity offtake.
3. **Regulation on Information Provision:** Regulation of the Ministry of Economy of the Slovak Republic No. 156/2005 Coll. as of April 6, 2005, which lays down details of the scope and procedure of providing information necessary for performance of state administration (pursuant to § 10 Article 8 Act No. 656/2004 Coll. on Energy as amended).
4. **Regulation on State of Emergency:** Regulation of the Ministry of Economy of the Slovak Republic No. 206/2005 Coll. as of May 4, 2005, laying down details of the scope and procedure for declaration of a state emergency and declaration of restrictive measures during a state of emergency and measures aimed at ending the state of emergency (pursuant to § 14 Article 5 Act No. 656/2004 Coll. on Energy as amended).
5. **Regulation on Permit Issuance:** Regulation of the Regulatory Office for Network Industries No. 212/2005 Coll. as of May 4, stipulating the sample of application for issuing the permit.
6. **Regulation on Technical Conditions:** Regulation of the Ministry of Economy of the Slovak Republic No. 337/2005 Coll. as of July 13, 2005, laying down details of the scope of technical conditions for access and connection to the system and rules for operating the system.
7. **Regulation on Requirements for Conducting Business in the Energy Sector:** Regulation of the Regulatory Office for Network Industries No. 375/2005 Coll. as of August 10, 2005, laying down requirements for meeting of the technical preconditions for conducting business in the energy sector, for education and professional qualification, as well as method for demonstrating them.