

**MINISTRY OF ENVIRONMENT  
OF THE SLOVAK REPUBLIC**  
**Environmental Evaluation and Management Section**  
**Environmental Assessment Department**  
Námestie Ľudovíta Štúra 1, 812 35 Bratislava

---

2012/12562

**Jadrová a vyrad'ovacia spoločnosť, a. s.**  
**Ing. Ján Horváth**  
**Director of the Safety Division**  
**Tomášikova 22**  
**821 02 Bratislava**

<b>Your letter no./dated</b>	<b>Our no.</b>	<b>Administered by/</b>	<b>Bratislava</b>
2012/11868	4554/2012-3.4/hp	Ing. Ponecová +421 905 682 024	10/08/2012

Subject: **“Final Processing of Liquid Radioactive Waste by JAVYS, a.s. at Mochovce Location”**  
**- withdrawal from the alternative option of the proposed activity**

With letter No. 2012/11868 dated 03 August 2012, delivered on 06 August 2012, you sent us a request for withdrawal from the requirement to present an alternative option of the proposed activity **“Final Processing of Liquid Radioactive Waste by JAVYS, a. s. at Mochovce Location”** pursuant to Act No. 24/2006 Coll. on Environmental Impacts Assessment and on Changes and Amendments to Certain Acts.

According to the information provided in your request, the final processing of liquid radioactive waste facility is located in the building no. SO 808/1-01 (not specified in detail) within the area of Unit 1 and Unit 2 of the Mochovce Nuclear Power Plant, situated at lands with plot no. 1751/4 and 1751/82 within the cadastral territory of Nový Tekov.

The permit to operate the nuclear facility for the final processing of liquid radioactive waste (“FP LRAW”) and the permit to treat radioactive waste in the given facility within the scope specified in the *Pre-Operation Safety Report for the FP LRAW Nuclear Facility* was issued by Decision of NRA SR No. 329/2007 in Trnava on 04 October 2007, and is valid until the date of the first periodic evaluation of nuclear safety in accordance with the cancelled NRA SR Decree No. 49/2006 Coll. on Periodic Evaluation of Nuclear Safety (this decree has been replaced with NRA SR Decree No. 33/2012 Coll. on Regular, Complex and Systematic Evaluation of the Nuclear Safety of Nuclear Facilities).

According to Annex 8 of the NC SR Act No. 24/2006 Coll., the proposed activity falls under Chapter 2 Power Industry, point 10 – “Facility for the processing, treatment and storage of medium- and low-

---

E-mail:	Fax:	Website:	Ident. no.
ponecova.helena@enviro.gov.sk	+42126020167	www.enviro.gov.sk	42181810

active waste from the operation and decommissioning of nuclear power plants and from the use of radionuclides, and is therefore subject to mandatory assessment without limitation.

The technological regulations in the NRA SR Decision No. 329/2007 issued in Trnava on 04 October 2007 were submitted to the Nuclear Regulatory Authority of the Slovak Republic which defined the following operating regulations for the FP LRAW facility:

- Technological Regulation TP 001 for FP LRAW Bituminization;
- Technological Regulation TP 002 for FP LRAW Filler; and
- Technological Regulation TP 003 for the FP LRAW Bituminization Line Cleaning.

The purpose of the FP LRAW facility is the treatment of liquid radioactive waste to transform it into solid form through the bituminization process to ensure identical fixing of radionuclides in 200 dm<sup>3</sup> MEVA barrels and their subsequent insertion into fibre concrete containers (FCCs). The FCC content is further fixed by cement filler complying with the limits and conditions of storage, transport and deposition at the National Radioactive Waste Repository (NRAWR) in Mochovce.

The technological system of the nuclear facility consists of three technological nodes:

- node for concentrate processing through bituminization;
- node for sludge and sorbent processing through bituminization;
- node for RAW processing through cementation.

The nuclear facility operation should also serve for the handling of solid RAW produced at the FP LRAW facility and at SE-EMO 1, 2, aimed for transport from Mochovce to the Bohunice Processing Centre in Jaslovské Bohunice, which is also run by the Proponent.

The FP LRAW facility is operated in campaigns, and is designed to run in five campaigns per year for concentrate processing and one campaign per year for sludge and sorbent processing.

During the operation of two SE-EMO units in 2011, a total of 265m<sup>3</sup> of concentrates and 6m<sup>3</sup> of sorbents and sludge were processed and treated.

In 2012, until the deadline for the submission of the request for withdrawal from the alternative option of the proposed activity, the facility processed and treated 145m<sup>3</sup> of concentrates and 6m<sup>3</sup> sorbents and sludge.

The request states that from the point of view of LRAW processing and treatment through bituminization and subsequent storage in fibre concrete containers (FCCs), the maximum annual designed capacity of the facility is 870m<sup>3</sup> of radioactive concentrates and 40m<sup>3</sup> of sorbents and sludge.

This capacity should be enough for the LRAW amount produced in two double units (i.e. four units) of SE-EMO.

You justify your request for withdrawal from the alternative option of the proposed activity with the fact that the facility is situated within the site of two double units of the nuclear power plant SE, a. s., EMO plant, and that this facility is optimised.

You also state in your request that the FP LRAW facility consists exclusively of technologies that have already proven their suitability and optimal nature for the fixing of radioactive waste in a solid matrix, as well as the ability to keep the set limits for the final product storage in FCCs before being deposited at the NRAWR.

You note in your request that, due to the above-mentioned facts, it is not purposeful to deal with any another technological or capacity option, or with an alternative location due to the fact that the facility operation is tied to SE, a. s. Mochovce Plant site.

**Further to your request we inform you that we withdraw from the request for an alternative option for the locality and technology of radioactive waste processing under Art. 22, par. 7 of the NC SR Act No. 24/2006 Coll. in the plan for the proposed activity “Final Processing of Liquid Radioactive Waste Processing by JAVYS, a.s. at Mochovce Location”.**

The Plan prepared pursuant to Art 22 and Annex 9 of the Act will contain one option of the proposed activity, as well as a zero option, i.e. the state that would occur in case the plan is not implemented.

**We also remind you that in case the observations on the given plan result in the need to deal with another realistic option of the activity, this fact will be considered in the proceedings under the respective law.**

Yours sincerely

(signature)

**RNDr. Gabriel N i ž ň a n s k ý**

Department Director