

SLOVAK REPUBLIC**STATE FUND OF DECOMMISSIONING OF NUCLEAR INSTALLATIONS AND HANDLING OF SPENT NUCLEAR FUELS AND NUCLEAR WASTES**

State Fund for Decommissioning of Nuclear Installations and Handling of Spent Nuclear Fuels and Nuclear Wastes was established by the Act 254/1994 of the National Council of the Slovak Republic as a special-purpose fund which concentrates financial resources intended for decommissioning of nuclear installations and for handling of spent nuclear fuels and radioactive wastes. The Act was amended in 2000, 2001 and 2002. The Fund is legal entity and independent from operator of nuclear installations Slovak Power Facilities Inc. The Fund is headed by Director, who is appointed and recalled by Minister of Economy of the Slovak Republic.

Sources of the Fund are generated from:

- a) contributions by nuclear installation operators
- b) penalties imposed by Nuclear Regulatory Authority of the Slovak Republic upon natural persons and legal entities pursuant to separate regulation
- c) bank credits
- d) interest on Fund deposits in banks
- e) grants from State Budget
- f) other sources as provided by special regulation

Fund resources may be used for the following purposes:

- a) decommissioning of nuclear installations
- b) handling of spent nuclear fuels and radioactive wastes after the termination of nuclear installation operation
- c) handling of radioactive wastes whose originator is not known, including occasionally seized radioactive wastes and radioactive materials stemming from criminal activities whose originator is not known, as confirmed by Police Corps investigator or Ministry of Health of the Slovak Republic
- d) purchase of land for the establishment of nuclear fuel and nuclear waste repositories
- e) research and development in the areas of decommissioning of nuclear installations and handling of nuclear fuels and radioactive wastes after the termination of the operation of nuclear installations

- f) selection of localities, geological survey, preparation, design, construction, commissioning, operation and closure of repositories of spent nuclear fuels and radioactive wastes, including post-closure monitoring of such repositories
- g) expenditures connected with Fund activities up to a maximum of 0,3% of annual Fund revenues

The Minister appoints Fund Council as his advisory body for generation and utilisation of Fund resources. Council members are appointed and recalled by the Minister, in particular from among experts in the fields of nuclear energy, health, environmental protection, economy and local government. The Minister at Council's suggestion decides upon granting of resources from the Fund.

The operator of nuclear installations submits applications until 15 June every year. Grants from the Fund may only be used for purposes for which they were granted. Audits of Fund management are the responsibility of Ministry of Finances of the Slovak Republic. The Prognosis for full financial support of back end of nuclear fuel cycle is compiled every other year for long-term phase (e.g. year 2130). Sources and utilisation of financial means are analysed in the prognosis, which is approved by the Government of the Slovak Republic. Outcome of this analysis defines financial contributions of operators of nuclear installations for the Fund.

Verifications of data in the table:

The Fond become active in 1995. State paid for decommissioning of A1 Power plant Jaslovské Bohunice until 2001. EC is one of the contributors for BIDSF fund. Costs for decommissioning and waste management including disposal were 3,6 Billions €

Balance in our accounts at the end of 2004 is expected to be 291, 947, 653 € Balance in our accounts as of 31 March 2004 was 317, 911, 925 €

Table 1: **Estimation of costs in mil. €**

ACTIVITIES	2004
Decommissioning NP A-1, 1. phase	6.2975
Decommissioning NP A-1, 2. phase	0
Decommissioning NP V-1	0.1875
Nuclear repository for spent fuel and highly active waste	0.7
Handling of radioactive waste	6.065
State repository Mochovce	2.09
Repository for short term placement of spent fuel /Decommissioning plant/	7.21
Other costs	5.82
SUM	28.37

OMEGA method - Oracle Multicriterial General Assessment of Decommissioning was used for calculation of costs for decommissioning of nuclear installations. The method is useful for calculations of scenarios, comparing scenarios, calculations of parameters for decommissioning and selection of optimal scenario. The method is useful for calculation of costs of back end of fuel cycle and other activities within back end of nuclear energy cycle. Outcomes of calculations are clearly comparable with other projects. The method is combined with MS Project and MS Excel.

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Sources for the report:

1. Act 254/1994 Coll. L.L. of the National Council of the Slovak Republic.
2. Prognosis for full financial support of back end of nuclear energy in Slovak Republic.