

## **Memorandum**

**on**

**Scientific and technical cooperation in the field of  
nuclear safety and security**

**between**

**the Federal Ministry for the Environment,  
Nature Conservation and Nuclear Safety of  
the Federal Republic of Germany together with its  
technical support organisation  
Gesellschaft für Anlagen- und Reaktorsicherheit**

**and**

**the State Office for Nuclear Safety of the Czech Republic  
together with its technical support organisation  
Státní ústav radiační ochrany (National Radiation Protection Institute)**

The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) of the Federal Republic of Germany together with its technical expert organisation, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS), the State Office for Nuclear Safety (SÚJB) of the Czech Republic together with its technical expert organisation Státní ústav radiační ochrany (SÚRO), hereinafter called „Sides“, noting

- The Agreement between the Government of the Czech and Slovak Federative Republic and the Government of the Federal Republic of Germany on the Issues of Common Interest Concerning Nuclear Safety and Radiation Protection (30.5.1990, in force since 2.8.1990)

while emphasising a longstanding and successful scientific and technical cooperation in the field of nuclear safety, having a mutual interest in a continuing exchange of information pertaining to regulatory and scientific matters related to nuclear safety and security, decide to continue their cooperation covering the period from 2019 through 2022 as follows:

## **1. Objectives of the scientific and technical cooperation**

The objectives of the scientific and technical cooperation in the abovementioned period should be the following:

- Exchange of experience in the nuclear supervision activities;
- Exchange of experience in the safe operation of existing nuclear power plants (NPP's) and other nuclear installations;
- Exchange of experience in safe handling of nuclear fuel and radioactive waste as well as in the decommissioning of nuclear power plants and other nuclear installations and
- Exchange of experience in assessment of physical protection (security) of nuclear installations and nuclear and radioactive materials.

## **2. Key-points of the scientific and technical cooperation:**

For the continuation of the cooperation, the Parties consider the following terms as key-points:

- Nuclear safety of nuclear power plants with Russian type Water-Water Energy Reactor (VVER): exchange of experience related to criteria and requirements for safety analyses of existing NPP's;
- exchange of experience in application of modern assessment methods and thermohydraulic and nuclear reactor physics computer codes, codes validation and models for existing installations;
- exchange of experience in implementation of safety improving measures taking into consideration the insights from the Fukushima Daiichi accident;
- joint activities in probabilistic safety analysis (PSA) for existing installations;
- operational experience assessment;
- safety and reliability of the digital safety I&C for existing installations;
- safety issues of specific existing NPP sites;
- safe handling of nuclear materials, radiation sources and radioactive waste, including final repositories issues;

- experience in the decommissioning of nuclear installations;
- methodology and criteria for the safety status assessment of the physical protection of nuclear installations as well as nuclear and radioactive material;
- knowledge management, information networks for regulatory bodies (RegNet) in the framework of the Global Nuclear Safety and Security Network (GNSSN);
- scientific and technical exchange of experience, working meetings and creation of the joint knowledge bases for nuclear safety and security.

### **3. Organisation of the scientific and technical cooperation**

The topics of the scientific and technical cooperation should be defined annually in working programmes between GRS and SÚRO as well as in the minutes of working meetings in the framework of the ongoing projects.

For the German Side, the scientific and technical cooperation is continued to be arranged by GRS.

For the Czech Republic, the cooperation is continued to be arranged by SÚRO, unless otherwise decided by SÚJB.

Other institutions can be involved in the cooperation upon mutual consent of all Sides.

The costs of the scientific and technical cooperation are borne by each respective Side itself.

The exchange of information under this Memorandum should be accomplished through letters, reports, and other documents, and by visits and meetings arranged in advance on annual basis.

Information provided or exchanged under this Memorandum can be used by SÚJB, SÚRO, BMU, and GRS without restrictions. A disclosure to other sides is subject to the requirements of each Side's national laws, regulations and policies

and the need to protect proprietary and other confidential or privileged information. A Side providing documentary proprietary and other confidential or privileged information pursuant to this Memorandum should ensure that such information is clearly marked. A Side providing non-documentary proprietary and other confidential or privileged information should ensure that the recipient is placed on notice as to the character of the information communicated.

Cooperation under this Memorandum should be in accordance with the laws and regulations of the Sides. Any dispute or questions between the Sides concerning the interpretation or application of this Memorandum are settled by mutual agreement of the Sides.

This Memorandum is made in four copies, one copy respectively for each Side, in the English language. The Memorandum is effective from the date of the signing by both Sides and will remain effective for a period of three years. It may be extended for a further period of time by written agreement of the Sides.

Place: Prague, date: 8.10.2015

For the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of the Federal Republic of Germany

Director-General Nuclear Safety, Radiological Protection

For the State Office for Nuclear Safety of the Czech Republic

President

For the Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH

Managing Directors

For the National Radiation Protection Institute SURO

Director