Rizzo Associates-Czech, a. s. (formerly Stevenson and Associates Czech Republic), a subsidiary of RIZZO Associates, is a major supplier for the completion of engineering service of the Mochovce Nuclear Power Plant (NPP). The Project builds on the initial preparatory stage of the Mochovce NPP (Units 3 & 4) completion (initial project).

In completing the NPPs, cooperation with Slovenské elektrárne, a. s. is implemented on several levels in a long-term cooperation.

RIZZO Associates-Czech, a.s. elaborated the concept of seismic fragility analysis and participated in the seismic fragility analysis and preparation of seismic qualification reports for the new structures, mechanical and electrical components and piping systems. RIZZO Associates-Czech, a.s. mainly focused on the preparation and implementation of programs for equipment qualification, elaboration of independent expert opinions and calculation reports of strength, service-life and seismic resistance of SSC (systems, structures and components). Within the framework of long-term cooperation, RIZZO Associates-Czech, a.s. provides the client with a broad range of services, including the methodology specifications, static and dynamic calculations, equipment qualification (analytical and experimental qualification verification), and walkdown plant inspections.

Within the framework of the consulting services and verification of design documentation, the following activities were performed:

- Methodology – Requirements for the seismic fragility analysis of SSC of the NPPs;
- Methodology – Complete qualification of SSC;
- Database for the management of the complete equipment qualification;
- Preparation of qualification specifications for the supplied equipment;
- Methodology – Seismic fragility analysis of SSCs after installation;
- Methodology – Design and specification of anchoring for seismic resistant SSC;
- Elaboration of independent expert opinions of calculation reports of strength, service-life and seismic resistance of SSC;
- Elaboration of summary reports of strength, service-life and seismic resistance calculations of SSC, and a summary qualification report;

All activities performed within the framework were performed under the Company’s quality management system in accordance with acceptance criteria: mainly Slovak and internationally accepted normative technical documentation, e.g., ASME B&PVC, ASI NTD (Association of Mechanical Engineers) and relevant IAEA documentation.
Within the framework of the project elaboration, RIZZO Associates-Czech, a. s. closely interfaces with the Client and partner organizations.