**South Ukraine Nuclear Power Plant (Yuzhnoukrainsk)**
*(Participation in Equipment Qualification of South Ukraine NPP Unit 1)*

<table>
<thead>
<tr>
<th>PROJECT OWNER'S INFORMATION</th>
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<tbody>
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<td><strong>PROJECT OWNER</strong></td>
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<tr>
<td>Ústav jaderného výzkumu Řež, a. s. / Nuclear Research Institute Rez</td>
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</tbody>
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RIZZO Associates-Czech, a.s. (formerly Stevenson and Associates-Czech Republic) a subsidiary of RIZZO Associates, within the framework of a long-term cooperation with the Nuclear Research Institute Rez, provided design, calculations, and evaluation of equipment. This work is based on engineering reports, primarily seismic analysis of components and equipment, and uses the indirect GIP-VVER assessment method.

The GIP-VVER assessment method (or Seismic Margin Assessment) was implemented by RIZZO-Cz for the Project, under a European Union grant (TACIS).

While processing the equipment qualification and the seismic fragility analysis of the plant equipment, RIZZO-Cz provided power plant walkdown inspections, assessment, and proposal of remedial measures. The assessment mode walkdown used ANSYS, Scia Engineer, and MATHCAD.

Individual consulting services included:

- Operator training at the Plant;
- Provision of seismic inspections of selected equipment components using GIP-VVER (Generic Implementation Procedure for VVER);
- Elaboration of technical documentation for the seismic analysis;
- Catalog of remedial measures with proposed seismic design enhancements of SSC;
- Training of selected specialist and elaboration of methods documentation.

All activities within the framework of the Project were performed in accordance with the Company’s quality management system. The acceptance criteria requirements were specified in: standards IAEA; GIP-VVER; PNAE G-7-002-86; Standards for Stress Calculations of Equipment and Pipes of Nuclear Power Plants, SNiP II-23-81*. Steel structures.