

**GENERAL APPROACH TO EMERGENCY OPERATING INSTRUCTIONS
ANALYTICAL JUSTIFICATION FOR ZAPORIZHZHYA NPP UNIT 5**

Alexander A. Bolibok

JSE, Ltd. EIS

Energodar, Zaporizhzhya region, Ukraine, 71500

Tel: +38-06139-19327, Fax: +38-06139-17551

E-mail: bolibok@eis.dv-com.net

ABSTRACT

General approach and main steps to perform the Symptom-Based Emergency Operating Instructions (EOI) Analytical Justification for Zaporizhzhya NPP (ZNPP) Unit 5 are presented in this paper.

Draft ZNPP EOIs were developed based on the EOIs of Beaver Valley NPP for the Westinghouse design (WOG ERG). In Phase 1 of ZNPP EOI Analytical Justification the existing PRA and DBA TH analyses and the candidate scenarios for additional analysis were identified. The candidate scenarios were identified for representative accident sequences, which lead to the procedure entry conditions and allow verifying the operator actions.

In Phase 2 of the project the analyses of operator actions and justification of system parameters and setpoints included in ZNPP EOIs will be performed using the ZNPP Unit 5 model for RELAP5/MOD3.2 code.