

Meliha Vlatkovic

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Biography

Ms. Vlatkovic brings more than 25 years of experience in electrical engineering and forecasting electricity consumption; 10 of which in the nuclear industry in areas of environmental qualification (EQ), electrical systems, procurement and Y2K in nuclear power plants (NPP). She has an extensive experience in preparation of environmental qualification assessments (EQA Part I). Currently, she is a specialist at the Canadian Nuclear Safety Commission (CNSC) since 2012, where she performs regulatory activities on EQ Program for existing CANDU plants and new designs.

Abstract –Current Status of The EQ Program In The Canadian NPPs

The Environmental Qualification (EQ) programs in Nuclear Power Plants (NPPs) provide an auditable assurance that credited equipment important to safety can perform designated safety functions on demand when exposed to postulated harsh environment conditions from Design Basis Accidents (DBAs). This presentation will provide information about the current status of the EQ Programs at Canadian NPPs. As a nuclear regulator, the Canadian Nuclear Safety Commission (CNSC) is responsible for verifying that the design complies with applicable codes, standards and regulations, and as the existing nuclear fleet in Canada has been approaching the forty year design life, the preservation of qualified equipment poses challenges.

In addition, this presentation will attempt to describe the compliance verification process for the EQ Program. Various compliance verification activities such as inspections and technical reviews used in the assessment of EQ Program efficiency and effectiveness will be explained, and the regulatory expectations for the licensee's Periodic Safety Review (PSR) process in the area of EQ will be elaborated on. Examples regarding gaps identified in the EQ area and recommended improvements will be highlighted.