

LECTURER'S VITAE

IAEA-ARGONNE TRAINING COURSE

Name: Vera Moiseytseva

Present Position: Post-Doctoral Research Associate

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Scope of Present Duties:

Markov modeling of LOOP events with common-cause failures included (under DOE-RISMC Project: Improved Safety Margin Characterization of Risk from Loss of Offsite Power)

Most Relevant Past Experience:

Approximately eight years of experience in Risk-Informed Asset Management, Generation Risk Assessment (GRA), Severe Accident initiation and progression (Loss of Cooling to Critical plant control equipment). Experience includes development and analytic solution of Markov state transition models for plant systems, analytic solution of a coupled lumped-parameter conduction-convection model of the switchgear rooms in a Westinghouse four loop PWR.

Principal investigator in the joint development of a new system initiator modeling approach now used in the RISKMAN PRA software (primarily for Generation Risk Assessment.) Applied analytical solutions to several Markov models to validate software developed using the new modeling approach.

Principal investigator for development of new Basis Event groups and documentation update of an operating Nuclear Power plant GRA, including analysis and expansion of the fault-tree basic events to all contributors to failure in the GRA model. Work in GRA required development of availability block diagrams, failure mode and effects analysis, and basic event data.

Principal risk-informed asset management investigator on options study for an operating nuclear reactor vessel head replacement options.

Educational Background:

Ph.D. (Nuclear Engineering), 2004, Texas A&M University, USA.

M.S. (MPC&A (Material Protection Control and Accounting of Nuclear Material) and Export control), 1999, Moscow State Engineering and Physics Institute, Russia.

B.S. (Nuclear Reactors Systems and Design), 1997, Moscow State Engineering and Physics Institute, Russia.

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