

LECTURER'S VITAE

IAEA-ARGONNE TRAINING COURSE

Name: Vera Moiseytseva

Present Position: Post-Doctoral Research Associate

Affiliation: Department of Nuclear Engineering, Texas A& M University

Address: _____

Phone Number: (815) 439-2607

Fax Number: _____

E-mail Address: vera.m76@gmail.com

Scope of Present Duties:

Developing analytical solutions (in form of asymptotic expansion) to Markov models for a system with several redundant EDGs trains (with common cause failures included). The work is done under the DOE NEUD RISC M Project: "Improved safety margin characterization from loss of offsite power."

Most Relevant Past Experience:

Approximately nine 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 (for STP nuclear power plant). Currently working as a Post-Doctoral Research Associate with Department of Nuclear Engineering, Texas A&M University. Current

interest is in investigation of new loss of offsite power recovery models that relax conservative assumptions for repair and failure scenarios.

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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