

**Advisory Committee on Reactor Safeguards Joint Digital Instrumentation and Control
Systems Subcommittee Meeting and Reliability and PRA Subcommittee Meeting
Rockville, MD
November 18 - 19, 2014, T2- B1**

- Agenda -

Cognizant Staff Engineer: Christina Antonescu (301-415-6792), Christina.Antonescu@nrc.gov)

| Topic | | Presenter(s) | Time |
|-----------------------------|--|---|---------------------|
| Tuesday, November 18 | | | |
| I | Opening Remarks, Chairman | J. Stetkar, ACRS | 8:30 am – 8:35 am |
| II | Introduction | Russ Sydnor, RES/DE Kevin Coyne, RES/DRA | 8:35 am - 9:00 am |
| III | Overview of Digital I&C PRA Research Activities | Ming Li, RES/DRA Louis Chu, BNL | 9:00 am – 9:45 am |
| IV | Insights and Results on Quantitative Software Reliability Method | Ming Li, RES/DRA Louis Chu, BNL | 9:45 am – 10:15 am |
| | Break | | 10:15 am - 10:30 am |
| V | Overview of Bayesian Belief Network Approach | Ming Li, RES/DRA Louis Chu, BNL | 10:30 am – 11:45 am |
| | Lunch Break | | 11:45 am – 12:45pm |
| VI | Overview of Statistical Testing Approach, Results and Insights | Ming Li, RES/DRA Louis Chu, BNL Tim Kaser, INL | 12:45 pm - 2:30 pm |
| VII | OECD/NEA WG Risk Digital I&C Failure Mode Taxonomy Task | Ming Li, RES/DRA | 2:30 pm – 3:00 pm |
| | Break | | 3:00 pm - 3:15 pm |
| VIII | Digital System Failure Modes | Ray Torok, EPRI Bruce Geddes, EPRI Dave Blanchard, EPRI | 3:15 pm - 4:15 pm |
| IX | Modeling of Digital I&C in PRA (TR-1025278) | Ray Torok, EPRI Bruce Geddes, EPRI Dave Blanchard, EPRI | 4:15 pm – 6:00 pm |

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| Wed., November 19 | | |
| X | Techniques for Failure Prevention and Mitigation Ray Torok, EPRI Bruce Geddes, EPRI Dave Blanchard, EPRI | 8:30 am -10:00 am |
| | Break | 10:00 am – 10:15 am |
| XI | Status of Hazard Analysis Demonstration Project (Main Generator Exciter Replacement) Ray Torok, EPRI Bruce Geddes, EPRI Dave Blanchard, EPRI | 10:15 am – 11:00 am |
| XII | Update on Digital System Failure Modes Research Mauricio Gutierrez, RES/DE Ming Li, RES/DRA | 11:00 am – 12:00 Noon |
| | Closing Remarks, Chairman J. Stetkar, ACRS | |

Notes:

- During the meeting, Telephone No. 301-415-7360 should be used to contact anyone in the ACRS Office.
- Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
- Thirty five (35) hard copies of each presentation or handout should be provided to the Designated Federal Official the day before the meeting.
- One (1) electronic copy of each presentation should be emailed to the Designated Federal Official 1 day before the meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the Designated Federal Official with a CD containing each presentation at least 30 minutes before the meeting.