

PANEL DISCUSSION: RISK INFORMING CYBERSECURITY DEFENSES FOR NUCLEAR ENERGY

WEDNESDAY: SESSION 1, TRACK 2

SESSION CHAIRS

- Tim McJunkin, Idaho National Laboratory
- Katya Le Blanc, Idaho National Laboratory
- Lon Dawson, Sandia National Laboratories

PANELISTS

- MODERATOR: Rich Mogavero, Nuclear Energy Institute
- Andrew Clark, Sandia National Laboratories
- Mike Rowland, Sandia National Laboratories
- Chris Lamb, Sandia National Laboratories
- Chris Spirito, Idaho National Laboratory
- Shannon Eggers, Idaho National Laboratory
- Katya Le Blanc, Idaho National Laboratory

SESSION ABSTRACT

Nuclear Energy Cybersecurity industry representative, Rich Mogavero from the Nuclear Energy Institute, will facilitate a discussion on the needed research to move the regulatory paradigm for cybersecurity from compliance to a risk informed defense in depth structure. The panel will consist of Department of Energy national laboratory researchers from Idaho National Laboratory and Sandia National Laboratory who are part of the DOE Nuclear Energy Cybersecurity R&D Program.

Nuclear energy has many of the same challenges as other power generation as a resilient component of the electric grid, including cybersecurity. However, nuclear power plants have unique position with respect to the oversight of regulators and public perception of risk which tends to make cost efficiency a challenge. The panelist will represent the challenges and research approach needed to understand and mitigate cybersecurity risks that will assist with the transformation from current compliance based regulatory environment to one that is risk informed.

The goal is to provide assurance that a defensive cybersecurity posture satisfies the public's need for safety and reliability of nuclear power by pursuing risk analysis methods and secure architecture with cybersecurity as part of the as part of the "fabric" of the system. Questions and discussion will illuminate the challenges and approach to solving this difficult task.