



DOD-ALL HAZARDS ANALYSIS (AHA) PRESENTED WITH THE ARMY CYBER INSTITUTE (ACI)

TUESDAY: SESSION 3, TRACK 2

SESSION CHAIR

Tim Klett, Idaho National Laboratory

PRESENTERS

- MAJ Steven Whitham, Army Cyber Institute (ACI)

SESSION ABSTRACT

The Jack Voltaic (JV) Cyber Research Project is an innovative, bottom-up approach to critical infrastructure resilience that informs ACI's understanding of existing cybersecurity capabilities and identifies gaps. JV 3.0 contributed to a repeatable framework cities and municipalities Nationwide can use to prepare.

Idaho National Laboratory's (INL's) AHA tool is a hybrid data and expert knowledge management system that enhances situational awareness and decision making by enabling the development of function-based infrastructure dependency models. The INL team supported the JV 3.0 exercise by using its AHA tool to process open-source government information, regulatory information, and other publicly available data to develop dependency models for the Charleston and Savannah regions, and then performing dependency analyses for these regions. INL created an instance of AHA for the JV exercises and loaded the results of the analysis into it. The JV instance of AHA was utilized to create cascading-impact scenarios that highlighted downstream impacts resulting from the degraded operations at various infrastructure in the energy and water sectors. Scenarios depicting how the regions' infrastructure are connected and how they were subsequently impacted by the various injects were captured in PowerPoint presentations and videos, which were then utilized in the exercises.