NITSL Now

Informing members about NITSL news & activities **November 2017**

Introducing the New NITSL Newsletter

Welcome to the first issue of the *new* NITSL Newsletter! We hope this new email format makes it easier for you to obtain information about NITSL. We want the newsletter to be as relevant as possible. Our goal is to keep members informed and involved. Please check out the "NITSL Snippets" section at the bottom of the newsletter for links to additional information. Feel free to provide feedback or comments at any time.

Chairman's Update

The NITSL Executive committee met in September for our bi-annual face to face meeting and 2018 Conference Committee. The 2018 NITSL conference is being hosted by NextEra at the Hilton West Palm Beach. We toured the facility with hotel staff and reviewed the logistics for the 2018 conference. The hotel provides more than enough space to accommodate our meeting agendas with break-out rooms. The Hilton West Palm Beach is a AAA Four Diamond hotel conveniently located just 2 miles from Palm Beach and the Atlantic Ocean and directly across from the CityPlace Shopping Center. CityPlace is West Palm Beach's premier shopping, dining and entertainment destination and includes a Publix Grocery Store in this upscale urban community.

We will also have Maria Korsnick, President and Chief Executive Officer for the Nuclear Energy Institute, providing an update to the NITSL General Session on Thursday morning. We are continuing to finalize our general session presentations and its promising to be another good year with topics on Innovation, Vogtle 3&4 update and updates from the Institute of Nuclear Power Operations and Electric Power Research Institute.

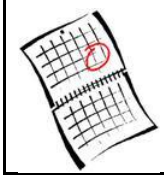
On behalf of the NITSL Executive Committee, we wish everyone a happy and safe holiday season and look forward to seeing everyone in West Palm Beach in July 2018.

Sunshine State; Here we come!

The planning committee is moving right along with conference activities. The theme for the conference is innovation, digital transformation and the future of technology excellence. The agenda is coming together and we plan to have some great presentations from our standing committees, advisory groups and guest speakers.

The conference format will be similar to Charlotte with break-out sessions split between Tuesday & Wednesday. Also vendors will be setting up first thing Wednesday morning to allow more face-to-face time throughout the day leading up to the always exciting – Vendor Night! As more information is available we will send additional communication and update the conference webpage.

We hope to open conference registration soon and members will be able to save $100 by registering before May 31st. Member and vendor fees are outlined on the Conference Fee page and vendors can also find out about participation and sponsorship opportunities here.



Time to submit your conference topics

Before we can open the conference registration we need some information from each Standing Committee. Each SC chair/co-chair should be in contact with their respective committee to

obtain conference presentation topics along with brief summaries of each topic. We do not need fully completed presentations at this time, only the topics and summaries. This information is needed so we can populate the event registration tool. SC Chairs, please send your information to your **EC Chair by December 15th** so we can open registration as soon as possible. If you have any questions about the information being requested please reach out to your EC chair.

We need to hear from you

Does your company allow employees to use their own device at work? INPO is requesting industry input regarding BYOD (Bring Your Own Device) policies in IT organizations. Please click here to complete the brief 10 question survey using SurveyMonkey.

Cyber Security Update

The NITSL Cyber Security Standing Committee (CSSC) selected 4 initiatives to work on throughout the year (shown below). Some of these initiatives are focused on providing utilities information prior to the full implementation dates coming up at the end of year. Initiative leaders are working on the development of scope for the initiatives, and laying out some milestones for the schedule. Since the NITSL conference, the CSSC has also conducted two Technical Calls related to Cyber Security Incident response. Callaway provided an overview of their Incident Response Program that was developed with the assistance of a previous EP employee. Exelon provided an overview of a recent unannounced cyber Security Incident Response Drill. Both provided some excellent discussions, and highlighted the importance of early and often communications when dealing with so many different departments.

- ***Cyber Security Program benchmarking focused on cost, staffing, procedures***

  The intent of this initiative is to identify the sites in the Top 10% (lowest) in terms of on-going total program costs and to identify the common elements of those program that enable those sites to achieve those results. To help with this initiative, CSSC members will be solicited to provide answers to a various number of survey questions around the on-going program costs, staffing, and CDA tasks.
  The survey results and key learnings will be shared during the 2018 NITSL conference.

- ***Develop Standard Cyber Security Metrics***

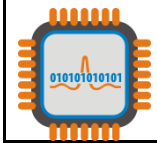
  The intent of this initiative will be to develop metrics that will help determine program health. Standardized Metrics will also help in benchmarking and best practices.

- ***Establishing a Standard Vulnerability Evaluation Process and sharing Evaluations***

  The intent of this initiative is to develop a standard Vulnerability Evaluation Process that can help utilities address the vulnerabilities provided by an ALNOTS screening process. This initiative will also include a combined effort with the CSTF to work with the NRC on agreement for screening low consequence vulnerabilities, agreement on when patches are needed, and agreement on what corrective actions associated with vulnerability evaluations are required prior to Milestone 8.

- ***Implementing Detect, Respond, and Eliminate (DRE) as it relates to the Significance Determination Process (SDP)***

  Scope is to prepare a template that can be used to demonstrate the ability to DRE a cyber threat. Deliverable product was determined to be a living folder/library of examples and expanded guidance related how to demonstrate the ability to Detect/Respond/Eliminate a cyber vulnerability. The goal is to have these examples ready for support of the Milestone 8 inspections.



Digital Controls Update

We are looking for a volunteer to assist our Digital Controls standing committee. If anyone is

interested in serving as a co-chair for the Digital Controls standing committee please contact Bill Wood and/or Gus Grosch. The DCS subcommittee met at the conference and identified the following initiatives to focus on for 2017-2018.

- Virtualization - Cyber to produce white paper on standard for VMs as CDA
- Control of outputs of data historians - initiative with SQA.
- Data Analysis - Data Centralization
- Standard Digital Design Process
- Remove Monitoring Sensors
- Survey: Allocation of Tasks on Digital Systems between Engineering, Maintenance, IT & Cyber
- Survey: Digital Control Lab

Infrastructure & Applications Update

The I&A committee is currently pursuing the following initiatives. Please contact an I&A member for more information or to find out how to get involved.

- Delivering the Nuclear Promise (DNP) – Bruce Gordon (APS)
- Data Analytics – Industry Collection of Use Cases – Jerrold Vincent (APS)
- Mobile Applications – David Arndt (Duke)
- Common Definition of Cloud Compliance - Angie Hensley (INPO), Kelly Petock (Talen Energy)
- Business Process Management – Misty Goff (Exelon)
- Electronic Work – Johanna Oxstrand (INL)
- Utilization of artificial intelligence to support business processes – Mike Peutl (Exelon)
- The internet of things – smart devices that want to connect to the network – Cedric Watson (INPO)
- Research and development of what is next – Eric Jurotich (Southern)
- Define processing for sharing data across the industry – Angie Hensley (INPO)

Software Quality Assurance Update

The SQA Committee Working group is developing several initiatives. Your input would be appreciated so we can continue to assist each other in improving our SQA Programs. Please return any information by the end of 2017. Thank you for your support!

- Reviewing NITSL-SQA-2005-02, Guidance Document To Implement Policy For Software Quality Assurance In The Nuclear Power Industry to see if there are any updates needed. After all the comments are received a team will evaluate the updates and make all the necessary changes. If you have any updates or would like to be part of the review team contact Kendra Ware at ksware@tva.gov.

- SQA Knowledge Product Sharing. Please send us any of your products that assist your organization in maintaining your SQA Program. Once we compile them all, the product will be shared with the SQA community. An example: one utility has a software owner knowledge checklist that is used when a new software owner is identified to ensure all the relevant information about that software has been given to the new owner. Send your products to Kendra Ware at ksware@tva.gov.

- The SQA committee, no, the industry needs to compile a list of commercially available business and process software that may not be unique to the design of your facility. Why? Imagine your engineering or maintenance management says we need such and such software. Wouldn't it be nice to know what other utilities are using that software, what it is classified as and who to contact to ask questions. Chris Meemken has developed a worksheet that will be easily sustained for just that purpose. Export the software listing you would like to share in an Excel worksheet and send to him directly at clmeemken@stpegs.com. Don't worry about the column order as he will format and extract the information needed. What information? The items and descriptions include: Application

(The name of the software that other utilities would recognize), Description (A brief description of the primary function the software performs/provides), Classification (your utility's classification), Application version (software version), Vendor (name of the vendor the software was purchased from), SQA Contact name (The person to contact for information about the related software), SQA Contact phone, SQA contact email, Utility (Utility providing the software inventory information).

Alert and Notification System (ALNOTS)

In support of the NRC cyber security programs, INPO fosters industry collaboration by developing ICES event codes to help identify digital and cyber security industry events and by sharing operating experience. Further, INPO developed and supports the Alert and Notification System (ALNOTS) to help utilities review cyber threats communicated by the U.S. Department of Homeland Security (DHS) so that the events can be evaluated in accordance with 10 CFR 50, Domestic Licensing of Production and Utilization Facilities, Appendix B, as required by regulations.

INPO's efforts are aimed at supporting industry full compliance with 10 CFR 73.54, Protection of Digital Computer and Communication Systems and Networks, by the end of 2017. Stations and utilities must complete required self-assessments of CDAs using guidance in NEI 08-09, Cyber Security Plan for Nuclear Power Reactors, by the end of this year. In addition, stations and utilities should establish cyber security incident response programs and training to demonstrate their ability to detect, prevent and recover from cyber security attacks. EPRI developed drill scenarios that the industry will use to demonstrate program effectiveness. Read more from INPO here.

Alert and Notification System:

- Industry has a process to screen 3 industry sources for candidates to evaluation for site cyber vulnerabilities
    - NIST - National Vulnerability Database
    - DHS - ICS-Cert
    - DHS - US-Cert
- Approximately 8000 annually

Standard Indicator-Central Database and Industry Standardized Performance Indicators

From the September 2017 edition of INPO Insight; EB 17-17, Standard Indicator-Central Database, provides a central database for INPO and the industry to manage standard KPIs with the following capabilities: data entry, analysis, reporting, exporting and data management. The central database (maintained by INPO) will eliminate the industry's need to maintain utility-specific databases for KPI monitoring, thereby reducing operating costs associated with performance monitoring.

Company and INPO Actions

- A detailed change management plan with standards and expectations should be developed and utilized during the transition year of 2018.
- Begin monthly data input to the new common KPI management system in Jan 2019.
- Input station performance data into both existing utility systems and the new common system during the three-month trial period (January-March 2019).
- Eliminate the utility-specific database and delete software support contracts if applicable (following successful implementation and testing of the new common system).
- Full implementation and use of the new database for all KPIs and the discontinued use of third party systems is expected to be complete by May 2019.

From the October 2017 edition of INPO Insight; Draft EB OA 2.B.1, Industry Standardized Performance Indicators, provides a common set of standardized performance indicators to monitor and compare

performance across the industry and support oversight and management meetings. This EB is a companion to the previously issued EB 17-17 that establishes the performance indicator central database.

New Study Lays Out Strategy for SMR Deployment

A new study says that if the U.S. wants to renew American leadership in nuclear technology and exports, then it needs to invest in a range of small modular reactor (SMR) technologies and help them reach commercial deployment. “Rebuilding the dominant position the United States once held as the leading exporter of nuclear power plants could create hundreds of thousands of American jobs,” the report says. The Nuclear Innovation Alliance’s report, "Enabling Nuclear Innovation: Leading on Small Modular Reactors," adds that a significant buildout of SMRs in the near future is achievable if a combination of sensible state and federal policies is enacted. Read more from NEI here.

You have mail… but should you open it?

Phishing is one of the top cyber-attack methods because it works. Emotional and contextual triggers like fear and urgency cause employees to be easier targets. Many employees are conscientious about poor performance (fear) and are often under a deadline (urgency). In New Zealand, the University of Otago found that often when employees fell for a phish they were usually away from their desk using a mobile device or working outside business hours either late at night or first thing in the morning. Organizations are creating conditions that will increase employees’ vulnerability to phishing attacks.

Often even when users knew they were clicking on a risky link, they still clicked it out of curiosity. Curiosity is one of the other emotional trigger along with fear and urgency. Raising awareness and focusing on training will not stop phishing attacks. Employees can be on the lookout for their natural reactions to emails, and then use those reactions as a trigger to recognize technical and process errors in what they are seeing. To succeed in this strategy organizations must have a culture where fear and urgency are not the norm and having a questioning attitude is a sign of intelligence, not incompetence. Read the full article here.

NITSL Snippets

- Want to get even more involved with NITSL? There will be two open EC positions this year. Start thinking about it now so you can write your name on the board in July. Contact any EC member to ask questions or discuss time commitments and expectations
- Need to know who to contact? Visit the NITSL website and a list of the current Executive Committee members and Standing Committee chairs/co-chairs.
- Do you struggle with providing useful feedback to others? View this LeadershipFreak blog post for some great advice.
- The holidays are almost here! Visit this CDC page for information on how to stay safe and healthy during the holiday season.

Visit us at www.nitsl.org. Comments, questions or story ideas are always welcome.