

Establishing and Maintaining a Safety Conscious Work Environment (SCWE) for New Nuclear Construction (NEI 09-12)

presented by:

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**NUCLEAR
ENERGY
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Agenda

- **Background and Safety Conscious Work Environment (SCWE) Facts**
- **Process used to develop NEI 09-12**
- **Status**
- **Plans moving forward**

Background and Safety Conscious Work Environment Facts

- **What is SCWE; why discuss it in this setting?**
- **SCWE is critical to the infrastructure of current operating plants.**
- **SCWE has a constant daily focus in operating plants.**
- **SCWE is the key to ensure personnel identify issues.**
- **SCWE is critical to success at nuclear plants.**

Background and Safety Conscious Work Environment Facts

- **Establishing and maintaining the SCWE will be more difficult for new nuclear construction than it typically is for operating nuclear plants**
 - **Workers without nuclear experience; having standard construction experience instead**
 - **Workers realize that their employment is “short term”; the nature of construction work**
 - **Lessons Learned from the latest-built plants of the 1980’s**

Background and Facts

- **The ECP Forum is a group that works to share knowledge of Employee Concerns Programs in nuclear and non-nuclear industries.**
- **Industry documents that describe components of a SCWE program include:**
 - **RIS 2005-18 (Regulatory Issue Summary)**
 - **NEI 97-05**
 - **NRC Policy Statement**

Background and Facts

- **Over time, the nuclear industry has continued to increase expectations for SCWE.**
- **INPO* provides oversight for this area as part of their processes.**
- **Lessons learned from nuclear construction were instrumental in identifying the need for SCWE in today's nuclear construction**
- **NPWG recognized the need for standardization**

Process used to develop NEI 09-12


- **Assembled a team including Vendors (E/P/Cs), Designers, COL Applicants / current Licensees, ECP experts, and others.**
- **Acquired SCWE programs for all participating E/P/Cs.**
- **Developed a list of SCWE type elements.**
- **Performed a review of the programs against those elements.**

Process used to develop NEI 09-12

- **Review indicated that some E/P/C programs:**
 - were missing some elements,
 - were missing many elements, or
 - didn't have a program.
- **Next we discussed what the process should include. We didn't want to duplicate what was contained in NEI 97-05 or what was contained in RIS 2005-18.**
- **Concluded that we wanted essentially everything.**

Process used to develop NEI 09-12

- **Capture the guidance in one document for ease of use.**
- **Began putting together a guideline for use.**
- **Believed it was better to omit the ECP piece in this guideline because NEI 97-05 does a good job of providing that guidance.**
- **Ensure we have a defined set of elements necessary to implement a SCWE.**

 **Standardize the process.**

Process used to develop NEI 09-12

- **Guideline**
- **Licensees really need to clearly articulate their plan for their construction sites.**
- **Standardizing SCWE will help the industry assure more consistent implementation.**
- **Construction site implementation**

NEI 09-12 Status

- **NPWG endorsed NEI 09-12.**
- **Conducted a workshop in November 2009**
 - Audience was the E/P/Cs and COL applicants.
 - Discussed NEI 09-12 in detail.
 - Provided a training program within NEI 09-12.
 - Gave a final opportunity to get any other industry feedback.
- **In February 2010, NEI issued NEI 09-12.**

Plans moving forward

- NEI 09-12 is available for all NEI members at www.nei.org
- E/P/Cs and COL applicants are encouraged to use this tool in planning their construction activities; the earlier in the process, the better results you can expect