

Nuclear Energy Institute Update

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Discussion Goals

- NEI mission
- NEI RP advisory structure
- NEI 2009 RP activities

NEI's Mission

Promote the beneficial uses of nuclear energy and technologies in the United States and around the world.



RP & LLW Advisory Structure

- Board of Directors
- Nuclear Strategic Issues Advisory Committee (NSIAC)
- Working Group on Radiation Safety, Low-Level Waste Radwaste Management & Environmental Protection
- Task Forces
 - Radiation Protection
 - Recordkeeping and Dosimetry (HP)
 - Low-Level Radioactive Waste (LLRW) Management
 - Environmental Protection
 - New Plant RP & LLRW
- Health Physics Forum, EPRI LLRW Conference, and RETS-REMP Meeting



Nuclear Strategic Issues Advisory Committee (NSIAC)

- Made up all industry CNOs
- Chairman – Mike Kansler (Entergy CNO)
- Advise and consent role on proposed strategies and actions
- 80% vote on an issue commits the industry
 - e.g., Groundwater Protection Initiative
- Full NSIAC meets 2x per year
- NSIAC steering committee meets add'l 4x per year

RP Advisory Structure

- RS, LLWM, & EnP Working Group (Executives & Managers):
 - Develop and oversee implementation of nuclear energy industry policy and strategies
- RP Task Force (RP Managers) & HP Task Force (Staff HPs):
 - Provide input to policy and strategy development and formulate action plans to implement same
 - Formulate and implement industry positions and plans on regulatory and technical issues
- HP Forum (RP Managers):
 - Review operating experience and lessons-learned, identify emerging issues and operational needs, and provide peer input to policy, strategies, and action plans

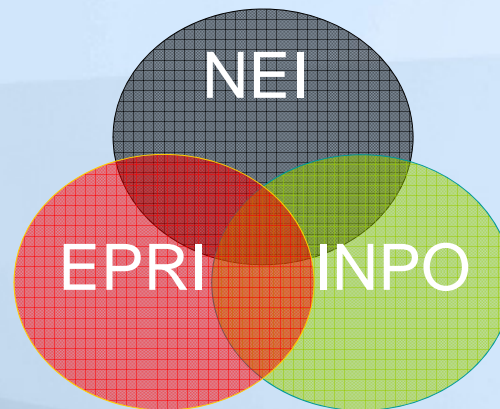
NEI RP Focus - 2009

- Continue implementation of RP2020
- Support enhancements to the regulatory oversight process (ROP)
- Support new plant licensing
- Monitor and assess emerging science
- Health Physics Forum (August 2009)

Partners in Creating RP 2020

Radiation Protection Managers

Chief Nuclear Officers



NEI = Policy
INPO = Performance
EPRI = Research



RP2020 Goal

Reshape radiological protection at nuclear power plants to achieve significant improvements in safety performance and cost-effectiveness.

RP2020 Objectives

- Reduce radiation fields (EPRI)
- Improve technologies utilization (EPRI)
- Standardize RP criteria and practices (INPO)
- Align RP workforce supply and demand (NEI)
- Manage changes to RP regulations (NEI)
- Provide RP information that is accurate, complete, timely, and comprehensible (NEI)

RP Policy & Regulations

- New ICRP Recommendations (ICRP 103) and IAEA RP Standards (BSS)
- Significant changes
 - More restrictive dose criteria
 - New dosimetry concepts, methods and units
 - Protection of non-human species
- 2009 Project: Assess impacts and propose options for change management

RP Workforce

- The challenges are well assessed and understood (50% attrition in next 5 years)
- Robust industry program to address workforce supply issues (incl. RP techs)
- 2009 Project:
 - Assess and propose options for adjusting demand
 - Address special case of health physicists

Regulatory Oversight Process

- Clarify the line between minor and greater than minor issues
- Clarify criteria for cross-cutting aspects within radiation safety (human performance, PI&R, procedures, training, etc.)
- Clarify criteria for licensee-identified and self-revealing (in regard to electronic dosimeter alarms)

New Plant Licensing

- Task force on new plant RP and LLRW
- Standard FSAR templates on operational programs for radiation protection, ALARA, ODCM, PCP, LLRW cost-benefit analysis (guide), and minimization of contamination (in progress)
- Routine meetings with NRC to manage process through start-up and operation

RP Science

- DOE – Low-Level Dose & Dose Rate Study
- EPRI – Report on Low Dose & Dose Rate Health Effects
- UNSCEAR – Sources and Risk
- NAS – Cardio-Vascular Health Effects
- Epidemiological studies of health effects around nuclear power plants

2009 Forum

NEI Health Physics Forum

August 16-19, 2009

Dana Point, California

