

# **New Plant Licensed Operator Training**

**May 24, 2007**

**New Plant  
Licensed Operator Task Force**



NUCLEAR  
ENERGY  
INSTITUTE



# Topics

- **New Plant Experience Requirements**
- **Simulator Training for New Plants**
- **Cold License Process**
- **Knowledge & Ability Catalogs**
- **Industry Administered Initial Exams**

# **Simulator Training For New Plants**

- **Limited Scope Simulator Usage**
  - **Temporary Condition**
  - **Facilitates early start of Operator Training**
- **Licensed Operator Exam on Plant Reference Simulator**

# **Simulator Training For New Plants**

- **NEI to provide technical paper on this topic to NRC staff that demonstrates how this process meets the existing regulatory guidance**

# **New Plant Experience Requirements - Issues**

- **Training and qualification requirements in 10 CFR 55 and 10 CFR 50.120**
  - **Reg. Guide 1.8 endorses ANSI 3.1 with exceptions**
- **Problems with prior experience requirements**
  - **Six months of experience at facility**
  - **RO, one year at facility and six months as NLO at facility**
  - **SRO, one year at facility as a RO**
- **Limited duration for each site**

# **New Plant Experience Requirements – Path Forward**

- **Industry to Prepare Interim Guideline for NRC Endorsement**
  - **Alternative experience requirements**
    - **Leverage technology**
    - **Use operating experience**
    - **Use international standards**
  - **Similar situation addressed in 1984**
- **Update Regulatory Guide 1.8**

# **Cold License Process**

- **Limited Duration Issues**
  - **Experience requirements**
  - **Plant reference simulator**
  - **OJT**
  - **JPMs**
  - **Reactivity manipulations**
  - **Six weeks at > 20% power**
- **NEI to provide technical paper that defines a path forward**

# K&A Catalogs

- **Complete a gap analysis for each reactor type**
- **Define “generic information” for all reactor types**
- **Modify existing NUREGS as necessary**
- **Develop new NUREGs for passive designs?**
- **Opportunities**
  - **JTAs versus KAs – separate catalogs needed?**
  - **Process for accomplishing changes / re-writes**
  - **Resources to get changes done**
  - **Document type – NUREG? NEI Guideline? INPO?**



# **Industry Administered Initial Exams**

- **Substantial Number of New Operators**
- **Simulators**
- **Related Experience**
- **Conceptual Approach to Operator Licensing for New Plants**

# Conceptual Approach

## Roles

- **Industry**
- **INPO**
- **NRC**

# Conceptual Approach

## Roles - Industry

- **Industry examiners qualified to industry standards**
- **Industry-administered Generic Fundamentals Examination (GFE)**
- **Industry-administered site-specific training program**
- **Industry-administered site-specific examination**
- **Industry recommended decision on exam results**

# Conceptual Approach

## Roles - INPO

- **Continue to accredit nuclear training programs**
- **Manage and Oversee Generic Fundamentals Program**
- **Accreditation of a License Examination Administration Program**

# Conceptual Approach

## Roles – NRC

- **Review and approve candidate applications**
- **Review and approve exam results**
- **Issue license**
- **Oversight and inspection maintains regulatory authority**

# Conceptual Approach

## Next steps

- **Industry**
- **INPO**
- **NRC**

# **Conceptual Approach**

## **Questions and Comments**