

INDUSTRY EVALUATION OF  
OPERATING SHIFT EXPERIENCE REQUIREMENTS

SLIDES

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For: NRC Commissioners  
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## BACKGROUND

DATE	EVENT
January 26	• NRC Staff Meeting with NTOLS to Present Objectives
February 2-22	• Operating Shift Experience Meetings Held • Industry Working Group Formed • Utility Management Accepted Industry Working Group Findings
February 24	• Presentation to NRC Commissioners

## **PURPOSE**

Present industry position on the level and type of operating shift experience required for the safe startup and initial operation of a nuclear generating plant.

## **ELEMENTS OF PLANT EXPERIENCE**

- Power Plant Machinery and Controls
- Plant Specific Layout and Design Parameters
- Response to Plant Transients
- Highly Disciplined, Tightly Controlled Environment
- Supervisory Experience

# TYPES OF NUCLEAR EXPERIENCE AND WEIGHTING FACTORS

## FORMULA

Nuclear Experience = (Type of Nuclear Experience) × (Weighting Factor)

## TYPES OF NUCLEAR EXPERIENCE

- SRO/RO Same Type Plant
- SRO/RO Commercial Plant
- Navy (Military) Plant
- Simulator
- Participation at Operating Nuclear Plant
- License Training
- Other Nuclear Experience
- Degree
- Experience on Own Plant

## OPERATING SHIFT EXPERIENCE REQUIREMENTS

Position	Power Plant Experience Years	Nuclear Plant Experience Years	License	Hot Participation Experience at Same Type Plant*		
				> 20% Pwr	Startup and Shutdown	6 Months on Shift
Shift Supv	4	2	SRO	6 weeks	X	Either
Sr Operator	3	2	SRO	6 weeks		SRO
Licensed Oper	3	1	RO			
Licensed Oper	<u>3</u>	<u>1</u>	RO			
Totals	13	6				

\*If any of the Hot Participation Experience requirements are not satisfied by the SRO's, a qualified advisor is required.

## **NRC STAFF OBJECTIVES**

1. At least one SRO on each operating shift should have a minimum of one year of hot operating experience on a similar type commercial plant at the SRO level
2. Eliminate use of technical advisors for meeting minimum shift crew experience levels
3. All SROs should have substantial hot operating experience as ROs at facility on which licensed or similar facility

## **EFFECTS OF NRC STAFF OBJECTIVES**

- Dilute Shift Experience for Operating Plants
- Result in Loss of Pre-Op Test Experience in Own Plant
- Delay Startup of Some Plants



## **SUMMARY**

### **INDUSTRY POSITION ON OPERATING SHIFT EXPERIENCE REQUIREMENTS**

- Follow Stated Experience Requirements for Operating Shift Personnel Shown on Slide 5 (Derived from ANS 3.1—1981)
- Use Weighting Factors in Assessing Experience
- Have at Least One SRO with Six Months “Hot” Participation at the Same Type Plant on Each Shift

—OR—

Provide a Qualified Advisor Until the Plant Staff Meets Stated Experience Requirements