

INDUSTRY EVALUATION OF
OPERATING SHIFT EXPERIENCE REQUIREMENTS

SLIDES

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For: NRC Commissioners
11th Floor Conference Room
1717 H. Street, Northwest
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February 24, 1984

BACKGROUND

| DATE | EVENT |
|---------------|--|
| January 26 | <ul style="list-style-type: none">• NRC Staff Meeting with NTOLS to Present Objectives |
| February 2-22 | <ul style="list-style-type: none">• Operating Shift Experience Meetings Held• Industry Working Group Formed• Utility Management Accepted Industry Working Group Findings |
| February 24 | <ul style="list-style-type: none">• 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