Docket Liles

APR 2 8 1985

Docket Nos.: 50-445 and 50-446

FACILITY: Comanche Peak Steam Electric Station

APPLICANT: Texas Utilities Electric Company

SUBJECT: Summary of Meeting Held On Thursday, March 14, 1986 -Qualifications of the Radiation Protection Manager (RPM)

On Thursday, March 14, 1986, a public meeting was held at NRC offices in Bethesda, Maryland with representatives from the NRC and Texas Utilities. Enclosure 1 provides the list of attendees. Enclosure 2 provides the applicant's handout.

Applicants provided a brief presentation describing the radiation protection organization followed by a description of the incumbent RPM's qualifications as compared to qualifications outlined in NRC Regulatory Guide (RG) 1.8, Revision 1, 1975, "Personnel Selection and Training".

The staff discussed the qualification criteria contained in RG 1.8 (Enclosure 3) and other internal NRC clarifying memorandum of RG 1.8 used by the staff in their review of applicants selection of an RPM (Enclosures 4, 5, and 6).

Applicants must provide an amendment to the FSAR when a permanent selection for an RPM is made. Amendments will be reviewed by the staff and the safety evaluation conducted at that time.

Annette Vietti-Cook, Project Manager PWR Project Directorate #5 Division of PWR Licensing-A

cc: See next page

Enclosures:

- 1. Attendance List
- 2. Applicants Handout
- NRC Regulatory Guide 1.8, Revision 1, 1975, "Personnel Selection and Training"
- NRC Internal Memorandum For Radiation Protection Section, From D. Collins, Subject: Radiation Protection Organization, Staffing and Qualification, dated April 4, 1981.
- NRC Internal Memorandum For H. Thornburg, From V. Stello, Subject: Clarification of "Equivalent" In Description of Radiation Protection Manager Qualifications, dated July 14, 1977.
- NRC Internal Memorandum For K. Goller, From B. Grimes, Subject: Qualifications of the Onsite Radiation Protection Manager, dated March 2, 1978.

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Meeting Summary Distribution

Docket or Central File NRC PDR Local PDR PD#5 Reading File J. Partlow (Emergency Preparedness only) V. Noonan Project Manager <u>A. Vietti-Cook</u> OELD E. Jordan B. Grimes ACRS (10) M. Rushbrook

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NRC Participants

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cc: Licensee and Plant Service List



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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20355

APR 2 8 1085

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ENCLOSURE 1

Attendance List

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AFFILIATION NRC/PM NRC Region IV NRC/NRR/PWRL-/PSB TUGCO Manager, Licensing TUGCO Licensing TUGCO Nuclear Operations TUGCO Nuclear Ops

ENCLOSURE 2

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RADIATION PROTECTION MANAGER QUALIFICATIONS AS PER REG. GUIDE 1.8

- 1. The RPM should have a bachelor's degree or the equivalent in a science or engineering subject.
- 2. The RPM should have some formal training in radiation protection.

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- 3. The RPM should have the supervisory capability to direct the work of professionals, technicians, and journeyman required to implement the radiation protection program.
- 4. The RPM should have the technical competence to establish radiation protection programs.

5. The RPM should be familiar with the design features and operations of nuclear power stations that affect the potential for exposures of persons to radiation.

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6. The RPM should have at least five years of professional experience in applied radiation protection. At least three years of this professional experience should be in applied radiation protection work in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power stations, preferably in an actual nuclear power station.

Summary: The RPM should be an experienced professional in applied radiation protection at nuclear facilities dealing with radiation protection problems and programs similar to those at nuclear power stations.

1. DEGREE REQUIREMENTS

Reg. Guide 1.8: "The RPM should have a bachelor's degree or the equivalent in a science or engineering subject."

INCUMBENT: The incumbent RPM possesses the following degrees:

Master of Science, 1981 Chemical Oceanography Florida Institute of Technology

Bachelor of Science, 1978 Biology University of Notre Dame

2. FORMAL TRAINING

Reg. Guide 1.8: "RPM should have some formal training in Radiation Protection."

INCUMBENT: The incumbent RPM has completed nine (9) semester hours of course work pertaining to radiation protection while an undergraduate at Notre Dame. In addition, he completed an additional six (6) semester hours of course work while obtaining his Master's Degree.

COURSE TITLES

- Medical Physics I
- Medical Physics II
- Nuclear Energy
- Radiological Health
- Nuclear Waste Management

3. SUPERVISORY CAPABILITY

Reg. Guide 1.8: "The RPM should have the supervisory capability to direct the work of professionals, technicians, and journeyman required to implement the radiation protection program."

INCUMBENT: RPM has demonstrated that he possesses the ability to successfully handle higher levels of management responsibility.

> At Turkey Point, the incumbent supervised all counting room activities. In this capacity he coordinated all counting room work and dealt with technicians on a one-to-one basis.

 Since joining the Comanche Peak staff, the incumbent has been responsible for the startup and initial calibration of all counting room equipment. During this time frame he supervised the activities of two (2) technicians assigned to the counting room.

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 In March of 1985, the incumbent was promoted to the position of Chemistry and Environmental Supervisor in charge of the Environmental Monitoring Program and all Counting Room activities. In this capacity he was responsible for supervising the activities of one (1) professional and seven (7) technicians.

4. TECHNICAL COMPETENCE

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Reg. Guide 1.8: "The RPM should have the technical competence to establish radiation protection programs."

INCUMBENT: At this time all CPSES Radiation Protection programs have been developed. Several programs, such as Bioassay, Dosimetry and Training have already been implemented. The incumbent RPM has successfully demonstrated his technical competence to establish radiation protection programs based on his success in managing the development and implementation of the counting room programs at CPSES. The incumbent has the following technical personnel at his disposal:

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In Line Management and Dedicated Staff

Administrative Superintendent Previous RPM

Corporate Health Physics Supervisor

Radiation Protection Supervisors

RP Staff Health Physicists

RP Technicians

5. DESIGN FEATURES

Reg. Guide 1.8: "The RPM should be familiar with the design features and operations of nuclear power stations that affect the potential for exposures of persons to radiation."

INCUMBENT: The incumbent RPM has attended the following training programs:

FLORIDA POWER AND LIGHT

- General Employee Training
- Radiation Worker Training
- General Systems Training

COMANCHE PEAK

- General Employee Training
- Radiation Worker Training
- Emergency Plan Training

The incumbent has held the following positions in the Emergency Response Organizations at both Turkey Point and Comanche Peak:

- Assistant to Onsite Radiological Assessment Coordinator
- Offsite Monitoring Teams Director

Operating Plant Experience

While at Turkey Point, 2 years, the incumbent was responsible for obtaining and analyzing radioactive samples taken from various locations throughout the plant. This task, performed under various plant operating conditions, required the use of various portable radiation survey instruments. As a result of these activities, the incumbent has gained an awareness of plant design features and the impact plant operations has on both general and local radiation fields.

6. EXPERIENCE IN APPLIED RP

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Reg. Guide 1.8: "The RPM should have at least five years of professional experience in applied radiation protection. At least three years of this professional experience should be in applied radiation protection work in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power stations, preferably in an actual nuclear power station."

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APPLIED RADIATION PROTECTION

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Administrative

ALARA

Bioassay

Radioactive Material Control

INCUMBENT

- Program development and implementation
- Project management and budgeting
- Daily implementation of ALARA principles in an operating environment
- Environmental Radiological Monitoring Program
- Developed Corrosion Products Control Program
- WBC instrumentation
- Liquid Scintillation Counting
- Section source custodian
- Turbine moisture carry-over test

Contamination Control

Dosimetry/Exposure Control

where the set of a construction for the set of

Effluents Release/DRMS

Instrumentation

Radioactive Waste

- Counting Room/sample area contamination control
- Routine use of PC's
- TLD exposure tracking/ accountability (Personal/ Environmental)
- Daily work under RWP's
- Permit processing/ODCM/ Tech. Specs.
- Semi-annual report
- Monitor Calibration Support
- Counting Room instrumentation calibration and maintenance
- NRC Confirmatory Measurements
- 10CFR61/waste analysis and classification

Respiratory Protection

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Surveillance and Control

Training

 Evaluation/classifying airborne environments

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- RPT
- Routine operation of portable survey instrumentation
- Counting Room training coordinator



U.S. NUCLEAR REGULATORY COMMISSION ULATORY GU

OFFICE OF STANDARDS DEVELOPMENT

Revision 1-R September 1975

(This guide reissued May 1977)

REGULATORY GUIDE 1.8

PERSONNEL SELECTION AND TRAINING

A. INTRODUCTION

Paragraph 50.34(b)(6)(i) of 10 CFR Part 50, "Licensing of Production and Utilization Facilities," requires that applications for a license to operate a nuclear power plant include information concerning organizational structure, personnel qualifications, and related matters, This regulatory guide describes a method acceptable to the NRC staff of implementing this portion of the Commission's regulations with regard to personnel qualifications.

B. DISCUSSION

Subcommittee ANS-3, Reactor Operations, of the American Nuclear Society Standards Committee developed a standard containing criteria for the selection and training of nuclear power plant personnel. This standard was approved by the American National Standard Institute (ANSI) Committee N18, Design Criteria for Nuclear Power Plants, and the ANSI Nuclear Technical Advisory Board. It was subsequently approved by the ANSI Board of Standards Review and designated ANSI N18.1-1971, "Selection and Training of Nuclear Power Plant Personnel."

C. REGULATORY POSITION

The criteria for the selection and training of nuclear power plant personnel contained in ANSI N18.1-1971. Selection and Training of Nuclear Power Plant Personnel,"1 are generally acceptable and provide an adequate basis for the selection and training of nuclear power plant personnel except for the position Supervisor-Radiation Protection (hereafter referred to as the Radiation Protection Manager).

USNRC REGULATORY GUIDES

In some cases, plant design features or unusual operating conditions may indicate that additional or more specialized expertise beyond qualifications presented in ANSI N18.1-1971 is needed. This determination will be made on a case-by-case basis.

The Radiation Protection Manager (RPM) should be an experienced professional in applied radiation protection at nuclear facilities dealing with radiation protection problems and programs similar to those at nuclear power stations. The RPM should be familiar with the design features and operations of nuclear power stations that affect the potential for exposures of persons to radiation. The RPM should have the technical competence to establish radiation protection programs and the supervisory capability to direct the work of professionals, technicians, and journeymen required to implement the radiation protection programs.

The RPM should have a bachelor's degree or the equivalent in a science or engineering subject, including some formal training in radiation protection. The RPM should have at least five years of professional experience in applied radiation protection. (A master's degree may be considered equivalent to one year of professional experience, and a doctor's degree may be considered equivalent to two years of professional experience where course work related to radiation protection is involved.) At least three years of this professional experience should be in applied radiation protection work in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power stations, preferably in an actual nuclear power station.

D. IMPLEMENTATION

The purpose of this section is to provide information to applicants and licensees regarding the NRC staff's plans for utilizing this regulatory guide.

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ies may be obtained from the American Nuclear Society, 244 East Ogden Avenue, Hinsdale, Illinois 60521.

With the exception of qualifications for the RPM stated in Section C, this guide will continue to be used by the NRC staff as in the past in the evaluation of submittals in connection with an operating license application. With regard to RPM qualifications, the qualifications stated herein will be used in the evaluation of submittals in connection with an operating license application docketed after June 1, 1976. Applicants may propose alternative personnel qualifications for complying with the specified portions of the Commission's regulations.

Although the Introduction section of this guide indicates that the guide should be used in the preparation of license applications, it is the position of the NRC staff that, if the RPM at an existing nuclear power station is reassigned or the incumbent is replaced, the new manager should have qualifications equivalent to those stated in this guide.

This guide is being reissued with the words "For Comment" deleted. The staff's consideration of comments received during the initial public comment period has resulted in the determination that there is no need for a revision at this time. Consequently, no changes have been made in the text of the guide.



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