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AUTH.NAME AUTHOR AFFILIATION
KEISER,H.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
BELLAMY,R.R. Region 1, Ofc of the Director

SUBJECT: Forwards util evaluation of incumbent radiological operations supervisor qualifications to meet Tech Specs.

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Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

SEP 29 1988

Harold W. Keiser
Senior Vice President-Nuclear
215/770-4194

Mr. Ronald R. Bellamy
Chief Facilities Radiological Safety and Safeguards Branch
Division of Radiation Safety and Safeguards
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION
NRC INSPECTION REPORTS 50-387/87-19
AND 50-388/87-19 Docket Nos. 50-387
PLA-3091 FILE R41-1C, R41-2 and 50-388

Dear Mr. Bellamy:

In response to your letter of July 15, 1988, attached is the Pennsylvania Power & Light Company (PP&L) evaluation of the incumbent Radiological Operations Supervisor's qualifications to meet Technical Specification requirements.

Very truly yours,

H. W. Keiser

Attachment

cc: NRC Document Control Desk (original)
NRC Region I
Mr. F. I. Young, NRC Resident Inspector
Mr. M. C. Thadani, NRC Project Manager

IE06
1/1

INCUMBENT RADIOLOGICAL OPERATIONS SUPERVISOR QUALIFICATIONS

The incumbent will possess a minimum of four years of experience in the discipline he supervises in January 1989. At this time, he will have a full two years in his current position. The remaining two years of experience is credited as follows:

1. One year credit for HP technician duties which were performed while the incumbent was a Licensed Reactor Operator and graduate student at a University research facility. As an operator and graduate student he performed activities which included external radiation surveys, contamination surveys, gamma spectroscopy, etc. One year equivalent Health Physics experience was credited for his approximately 1 year 9 months research reactor experience.

2. One year credit for the incumbents five year assignment with the Division of Naval Reactors. Almost four years of this work experience was in the area of surface ship refueling. In this capacity he was responsible for the safety and quality of refueling work for 12 reactor plants. His duties included the design, development, review and approval of refueling concepts, equipment, casks, shielding and procedures. This credit conservatively applies the weighting factors (Table 1) experience requirements specified in ANSI N18.1 and ANSI/ANS-3.1-1987. PP&L also considers this credit to be equitable and acceptable for the ANSI 18.1-1971 version.

In addition, the incumbent has over 20 years experience in design and supervisory aspects of operating nuclear power facilities. His depth of knowledge, technical, supervisory and administrative skills were the prime consideration in his appointment to his present position.

As further assurance that the incumbent has received training appropriate and sufficient for the position, an individualized training program has been prepared for this subject individual. The outline for this supplemental training program is attached. Upon completion of this training or January 1, 1989, whichever is latest, the subject individual shall be considered to be fully qualified to the requirement of the Susquehanna SES Technical Specifications.

RDK:tah
rdkmeillla

Attachment

Supplemental Training Program
Radiological Operations Supervisor

The attached outline lists those documents which must be read during the supplemental training period by the Radiological Operations Supervisor. A signature on the required reading list indicates that the trainee has demonstrated familiarity with the documents contents to the Chemistry/Health Physics Supervisor or his designee.

In addition to satisfactorily completing the required reading list, the Radiological Operations Supervisor shall attend workshops on Radioactive Waste Packaging, Transportation and Disposal, and on Regulations and the Regulatory process. The Radioactive Waste Workshop will be the one presented by Chem Nuclear Systems, Inc. or equivalent. The Regulatory Workshop will be presented by a Board Certified Health Physicist with more than 20 years of regulatory experience.

This training program shall be completed prior to December 31, 1988.

Prepared by: George H. Smith 6/6/88
George H. Smith, CHP

Approved by: Harry L. Riley 6-6-88
Harry L. Riley
Chemistry/Health Physics Supv.

		Trainee Signature	Date
Federal Regulations			
10 CFR 2	Appendix C Rules of Practice for Domestic Licensing Proceedings		
10 CFR 19	Notices, Instructions & Reports		
10 CFR 20	Standards for Protection Against Radiation		
10 CFR 30	Rules of General Applicability to Domestic Licensing of By-product Material		
10 CFR 40	Domestic Licensing of Source Material		
10 CFR 50	Domestic Licensing of Production and Utilization Facilities		
10 CFR, Part 61, Management and Disposal of Low Level Waste by Shallow Land Burial and Alternative Disposal			
10 CFR 70	Domestic Licensing of Special Nuclear Material		
10 CFR 71	Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions		
10 CFR 150	Exemptions & Continued Regulatory Authority in Agreement States & in Offshore Waters Under Section 274		
29 CFR 1910	General Industry Safety & Health Standards		
30 CFR 11	Respiratory Protective Devices, Tests for Permissibility, Fees		
49 CFR, Parts 100 - 199, Transportation			

	Trainee Signature	Date
Burial Site Regulations		
Barnwell, South Carolina Disposal Site Criteria		
Chem-Nuclear Systems, Inc. South Carolina Operating License for Barnwell Disposal Site, License No. 097		
Chem-Nuclear Systems, Inc., NRC Material License 46-13536-01		
US Ecology Beatty Disposal Site state of Nevada Radioactive Material License 13-11-0043-02		
Site disposal criteria for the US Ecology Richland, Washington Disposal Site, Radioactive Material License WN-1019-2		
Technical Specifications		
Section 6.0 Administrative Controls		
FSAR		
Section 11.4 Solid Radwaste Management System		
Section 12.5 Health Physics Program		
Regulatory Guide		
Reg Guide 1.8 Personnel Selection & Training		
Reg Guide 1.16 Reporting of Operating Information-Appendix A Technical Specifications		
Reg Guide 1.21 Measuring, Evaluating and Reporting Radioactive Material in Solid Wastes and Release of Radioactive Material in Liquid and Gaseous Effluents from Light Water Cooled Nuclear Power Plants		

		Trainee Signature	Date
Reg Guide 1.33	Quality Assurance Program Requirements		
Reg Guide 1.88	Collection, Storage & Maintenance of Nuclear Power Plant Quality Assurance Records		
Reg Guide 7.1	Administrative Guide for Packaging and Transporting Radioactive Material		
Reg Guide 7.10	Establishing Quality Assurance Programs for Packaging used in the Transport of Radioactive Material		
Reg Guide 8.4	Direct Reading and Indirect Reading Pocket Dosimeters		
Reg Guide 8.8	Information Relevant to Ensuring Occupational Radiation Exposures at Nuclear Power Stations will be ALARA		
Reg Guide 8.9	Acceptable Concepts, Models, Equations Assumptions for a Bioassay Program		
Reg Guide 8.10	Operating Philosophy for Maintaining Occupational Radiation Exposures ALARA		
Reg Guide 8.13	Instruction Concerning Prenatal Radiation Exposure		
Reg Guide 8.14	Personnel Neutron Dosimeters		
Reg Guide 8.15	Acceptable Programs for Respiratory Protection		
Reg Guide 8.19	Occupational Radiation Dose Assessment in Light-Water Reactor Power Plants Design Stage Man-Rem Estimates		
Reg Guide 8.25	Calibration and Error Limits of Air Sampling Instruments for Total Volume of Air Sampled		

		Trainee Signature	Date
Reg Guide 8.26	Application of Bioassay for Fission & Activation Products		
Reg Guide 8.28	Audible Alarm Dosimeters		
Reg Guide 8.29	Instruction Concerning Risk from Occupational Radiation Exposure		
Reg Guide 10.1	Compilation of Reporting Requirements for Persons Subject to NRC Regulations		

ANSI Documents

ANSI N18.1-1971	Selection & Training of Nuclear Power Plant Personnel		
ANSI N323.1978	American National Standard Radiation Protection Instrumentation Test and Calibration		
ANSI N13.27.1978	American National Standard Performance Requirements for Pocket-sized Alarm Dosimeters and Alarm Ratemeters		
ANSI N13.5.1972	American National Standard Performance Specifications for Direct Reading and Indirect Reading Pocket Radiation		
ANSI 13.4.1971	American National Standard for the Specification of Portable X-or Gamma Radiation Survey Instruments		
ANSI N42.12.1980	American National Standard Calibration and Usage of Sodium Iodide Detector Systems		
ANSI 42.14-1978	American National Standard Calibration and Usage of Germanium Detectors for Measurement of Gamma-ray Emission of Radionuclides		

		Trainee Signature	Date
ANSI N343-1978	American National Standard for Internal Dosimetry for Mixed Fission and Activation Products		
ANSI Z88.2-1980	American National Standard Practices for Respiratory Protection		
ANSI/ASME N510-1980	American National Standard Testing of Nuclear Air-Cleaning Systems		
ANSI N13.1	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities		
ANSI/ANS-3.1-1987	Selection, Qualification & Training of Personnel for Nuclear Power Plants		
Draft Std. N13.12	Surface Radioactivity Guide for Materials, Equipment & Facilities to be Released for Uncontrolled Use		
Draft Std. N13.30	Performance Criteria for Bioassay		

Significant NRC Bulletins; Circular & Information Notices - Generic Letters

Bulletin 79.19:	Packaging of Low Level Radioactive Waste for Transport & Burial		
Circular 80.18:	10 CFR 50.59 Safety Evaluation for Changes to Radioactive Waste Treatment Systems		
Information Notice 81-26:	Part 3, Placement of Personnel Monitoring Devices for External Radiation Exposure (8/28/81) and Supplement 1 (7/19/82)		
Information Notice 83-59:	Dose Assignment for Workers in Nonuniform Radiation Fields		
Circular 81-07:	Control of Radioactivity Contaminated Material		

		Trainee Signature	Date
Information Notice 85-92:	Surveys of Wastes Before Disposal from Nuclear Reactor Facilities		
Information Notice 86-23:	Excessive Skin Exposures Due to Contamination with Hot Particles		
Bulletin 80-10:	Contamination of Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment		
Information Notice 86-44:	Failure to Follow Procedure When Working in High Radiation Areas		
Information Notice 86-20:	Low Level Radioactive Waste Scaling Factors, 10 CFR 61		
Information Notice 82-18:	Assessment of Intake of Radioactive Material by Workers		
Information Notice 86-43:	Problems With Silver Zeolite Sampling of Airborne Radioiodine		
Information Notice 82-49:	Correction for Sample Conditions for Air and Gas Monitoring		
Generic Letter 81-38	Storage of Low Level Waste at Power Reactor Sites and Enclosure Radiological Safety Guidance for Onsite Contingency Storage Capacity		
Generic Letter 85-14	Commercial Storage at Power Reactor Sites of Low Level Radioactive Waste Not Generated by the Utility		
NUREG's			
NUREG 0041	Manual of Respiratory Protection Against Airborne Radioactive Material		

		Trainee Signature	Date
NUREG 0855	Health Physics Appraisal Program		
NUREG/CR-0466	Determining Effectiveness of ALARA Design and Operational Features		
NUREG/CR-3544	Beta Particle Measurement and Dosimetry at NRC Licensed Facilities		
NUREG/CR-2956	Neutron Dosimetry at Commercial Nuclear Plants		
INPO			
INPO 85-004	Guidelines for the Conduct of Radiological Protection at Nuclear Power Stations (Preliminary)		
INPO 82-001 (OEN-01)	Strippable Decontamination Coating		
INPO 82-001 (OEN-02)	Reactor Vessel Head Shield		
INPO 82-001 (OEN-08A)	ALARA Planning for Station Work		
INPO 82-001 (OEN-09)	Low-Level Radioactive Waste Management		
INPO 82-001 (EPN-02)	Conduct of a Direct-Reading Dosimeter Program (Quartz Fiber Pocket Dosimeters)		
INPO 82-001 (EPN-03)	Comparison of Dosimetry Results		
INPO 82-001 (FDO-001)	Respirator Cleaning and Maintenance Packages		
INPO 82-001 (FDO-02)	Modular Contamination Control Enclosures		
INPO 86-011 (RP-601)	Use of Goals in Reducing Personnel Radiation Doses		

		Trainee Signature	Date
RP-603	Advanced Worker Training in Radiological Protection (Preliminary)		
INPO-88-004 (RP-604)	Monitoring Personnel for Radioactive Contamination		

Reports

	Swedish Experience in Reducing Occupational Radiation Exposure		

PP&L Procedure Reading Requirements

NDI 6.4.1	Susquehanna Radiation Protection Program		
NDI 6.4.2	ALARA Policy Program		
NDI 6.4.3	Personnel Radiation Exposure Policy		
NDI 6.4.4	Prenatal Radiation Exposure Policy		
NDI 6.4.5	Respiration Protection Program		
NDI 6.4.8	Personnel External Dosimetry Program Responsibilities & Interfaces		
NDI-QA-6.5.1	Radwaste Program		
NDI-QA-8.1.1	NQA Section Charter		
AD-00-700	Conduct of Health Physics		
AD-00-705	Access Control & RWP System		
AD-00-710	Radiation Survey Program		
AD-00-715	Airborne Radioactive Material Concentration Sampling & Evaluation Program		
AD-00-720	Contamination Control		

		Trainee Signature	Date
AD-00-725	Respiratory Protection Program		
AD-00-730	Health Physics Training Programs		
AD-00-735	External Dosimetry Program		
AD-00-740	Internal Dosimetry Program		
AD-00-745	ALARA Program		
AD-00-750	Control of Sources		
AD-00-760	Performance Evaluation Program & Administrative Controls for Health Physics Instrumentation		
AD-00-765	Solid Radwaste Program		
AD-00-770	Operating of Low Level Radwaste Holding Facility		
AD-00-775	Decontamination Program		
AD-QA-502	Work Authorization System		
AD-QA-410	Plant Modification Program		
AD-QA-111	Radwaste Management Program		
AD-QA-305	Radwaste Process		
AD-QA-112	Radwaste Volume Reduction Committee		
AD-QA-311	Radwaste Process Control		
AD-QA-502	Work Authorization System		
HP-TP-807	Specific Site Criteria for Radwaste Shipment to the Chem-Nuclear Systems, Inc. Barnwell, South Carolina Disposal Site		
HP-TP-808	Specific Site Criteria for Radioactive Material Shipments to the US Ecology Beatty Nevada Disposal Site		

		Trainee Signature	Date
HP-TP-809	Specific Site Criteria for Radioactive Material Shipments to the US Ecology Richland, Washington Disposal Site		
HP-AL-400	RWP/ALARA Reviews & Evaluations		
HP-TP-320	Radiation Work Permits (RWPS)		
HP-HI-009	Qualification for HP Tech. (Level II) to Prepare/ Approve Radiation Work Permits		