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 VAN BRUNT,E.E. Arizona Public Service Co.
 RECIP.NAME RECIPIENT AFFILIATION
 THOMPSON,H.L. Division of Licensing

SUBJECT: Forwards J Garva & L briner resumes, per Dec 1984 SSER 7
 Section 13.1.2.4 & 850220 request for info re shift advisor
 program.Training of Garva & Briner expected to begin on
 850401.B Grabo & W Rudolph resumes aslo encl.

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Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

ANPP-32198-EEVB/WFQ
March 21, 1985

Mr. H. L. Thompson, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Phillips Building
7920 Norfolk Avenue
Bethesda, MD 20814

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 528 (License No. NPF-34)
Operating Shift Staffing for PVNGS;
Shift Advisors for Unit 1
File: 85-001-702; 85-056-026

Reference: Safety Evaluation Report Supplement 7, dated December 1984,
Section 13.1.2.4 pg. 13-7

Dear Sir:

The above referenced document requested ANPP to submit information on the shift advisor program for staff review. Based on this request as well as on a discussion with L. P. Crocker of your staff at the most recent meeting concerning the above subject (February 20, 1985), we are attaching the resumes of Mr. Jose Garza and Mr. Lloyd Briner who are the two individuals from Southern California Edison (SONGS 2 & 3) which we propose to use as shift advisors at PVNGS Unit 1.

We expect to start training these two individuals on April 1, 1985. After training has been completed, Mr. Garza will be put on the shift which does not fully meet the NUMARC experience requirements and Mr. Briner will return to SONGS until such time we would require his services to maintain the six shifts on Unit 1 at the NUMARC experience level.

In addition, we have also attached the resumes of Mr. Burton Grabo and Mr. William Rudolph. Each of them has obtained their SRO at PVNGS and fully meets the NUMARC experience requirements. These two individuals could be used as advisors on Unit 1 if due to unforeseen circumstances the SONGS individuals would become unavailable as shift advisors. As we have previously stated, Mr. Wayne Aho and Mr. Gene Eimar, two SRO candidates for the April NRC examination, could also be used for shift advisors if they successfully pass the exam, even though they will be licensed on Unit 2. These individuals also fully meet the NUMARC experience requirements.

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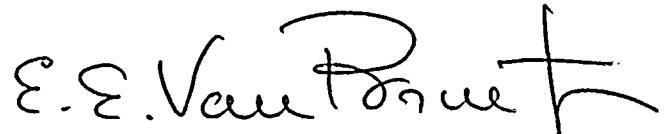
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ANPP-32198
Mr. H. L. Thompson
Palo Verde Nuclear Generating Station Unit 1
Operating Shift Staffing for PVNGS; Shift Advisors for Unit 1
Page Two

As requested, we have also attached the PVNGS Operating Department Guideline #37, "Responsibilities and Duties of the Shift Advisor" which outlines the working relationships, responsibilities, and the limitations of the Shift Advisor at PVNGS. Lastly, we are providing a copy of the Shift Advisor Training Course outline which details the specific areas of training to be given.

If you should have any further questions, or require additional information, please call.

Very truly yours,

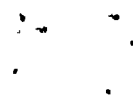
A handwritten signature in dark ink, appearing to read "E. E. Van Brunt, Jr.", with a stylized flourish at the end.

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/TJB/dlm

Attachments

cc: A. C. Gehr (w/attach)
E. A. Licitra (w/attach)
R. P. Zimmerman (w/attach)
L. P. Crocker (w/attach)
R. J. Pate (w/attach)



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RESUME

JOSE RENE GARZA

February 1985

EXPERIENCE

SOUTHERN CALIFORNIA EDISON, SAN ONOPRE NUCLEAR GENERATING STATION UNITS 2 & 3 (SONGS 2 & 3), San Clemente, CA., August 1979 to date.

SENIOR REACTOR OPERATOR, NUCLEAR CONTROL ROOM SUPERVISOR, January 1983 to present. Supervised all control room activities and licensed operators on two 1175 Mwe Combustion Engineering Pressurized Water Reactors, their common plant area and radwaste facilities. Senior reactor operator licenses on SONGS 2 and 3. Supervised control room operation of both units during power ascension testing, including shutdown from outside control room. Additional administrative duties include upgrade training of licensed and nonlicensed personnel, interfacing with management and engineering on special projects and requests for operations support, and dealing with personnel problems associated with nuclear plant operation. Upgraded to Shift Superintendent in May, 1984.

CONTROL ROOM OPERATOR, October 1980 to January 1983. Operated the plant and directed plant operations from the control room. Wrote initial operating procedures. Directed operations during initial preoperational testing, initial fuel load, Unit 2's initial criticality, and power range testing. Directed radwaste operations.

ASSISTANT CONTROL OPERATOR, August 1980 to October 1980. Operated Units 2 and 3 from the control room during preoperational testing. Performed clearances and assisted control operator in maintaining overall control of the plant. Interfaced with startup, maintenance, and testing personnel.

PLANT EQUIPMENT OPERATOR, August 1979 to August 1980. Operated the plant outside the control room. Duties included inspecting equipment, aligning equipment for preoperational testing, assisting cognizant startup engineers, walking down systems prior to station acceptance from startup. Operated equipment and directly participated in initial energization of the unit, integrated leak rate testing, primary and secondary hydrostatic testing, and system flushes.

EG&G IDAHO, INC., LOSS OF FLUID TEST REACTOR (LOFT), Idaho Falls, Idaho. January 1976 to August 1979. ELECTRONICS REACTOR OPERATOR during all loss of coolant experiments during employment. Operated the plant during normal operation and the following test series: non-nuclear and full power double-ended cold leg loss of coolant experiments; small break experiments; and operational transient tests. Occasionally performed SHIFT SUPERVISOR duties. Participated in initial criticality. Performed calibrations, maintenance, and alignment of reactor-related instrument and control systems. Participated in system flushes and pressure tests, integrated systems tests, and plant acceptance test program.

February 1985

EXTENDED VACATION, September 1975 to January 1976.

UNITED STATES NUCLEAR NAVY, October 1969 to September 1975.

REACTOR OPERATOR AND ELECTRONICS TECHNICIAN aboard Posiedon submarine USS George C. Marshall, March 1972 to September 1975, including overhaul and refueling in Bremerton shipyard, sea trials, and four patrols. Prototype training at Idaho Falls, Idaho, on SLW. First electronics reactor operator in class to qualify.

LICENSES

SENIOR REACTOR OPERATOR: San Onofre Nuclear Generating Station Unit 2 (Docket #50-361), Unit 3 (Docket #50-362).

REACTOR OPERATOR: San Onofre Nuclear Generating Station Unit 2 (Docket #50-361).

QUALIFICATION: Loss Of Fluid Test Reactor, a Department of Energy reactor in which certification rather than licenses were required, August 1977.

EDUCATION

Graduated Clovis High School, Clovis, California, 1968.

Attended Data Processing at Fresno City College, Fresno, CA 1969. Studied Introduction to Purchasing at Idaho State University, Pocatello, Id, 1978. Continued for a total of three semesters study, including: mathematics at Mira Costa College, Oceanside, CA, 1979 through 1980; calculus and chemistry (two semesters); introduction to computer programming at Palomar College, San Marcos, CA, 1980 to 1982.

LLOYD W. BRINER

February 1985

EXPERIENCE

I have five years in-plant experience at San Onofre Nuclear Generating Station, Units 2 and 3.

Two and one half years as a Plant Equipment Operator and Assistant Control Operator. During this time, I was involved in my nuclear training and start up testing on Reactor, Secondary, and Electrical Equipment.

For the last two and one half years, I have been a Control Operator. During this time, I have obtained a Cold Reactor Operator License and later upgraded to a Dual Reactor Operator License. As the Control Operator, I directed the initial criticality at Unit 2, and the low power physics testing on both Units 2 and 3.

I'm experienced in the safe and efficient plant operations for startup, shutdown, and normal plant evolutions at power, or shutdown conditions.

I've also taken an interest in seeing that operating procedures and aides are technically and operationally correct.

Recently, I have been promoted to the administrative position of Operations Coordinator. Presently, I work for the Assistant Operations Manager on several special projects. Also, I am preparing myself for the Senior Reactor Operator exam.

PREVIOUS EXPERIENCE

Radiation and health physics technician.
Conducted radiation and contamination surveys.

U. S. Navy Nuclear Plant mechanical operator.
Qualified Engine Room Supervisor, supervising
secondary, life support, and propulsion
equipment.

SPECIAL EXPERIENCES

Operation support during the construction
and startup testing phases at San Onofre
Nuclear Generating Stations, Units 2 and 3.

Involved in record refueling and major
overhaul of nuclear fast attack submarine
USS GURNARD (SSN 662). This involved quality
assurance, system tests and physics testing
of the new reactor core.

AWARDS

On two separate occasions, commended for
outstanding performance of duties pertaining
to operation and maintenance of nuclear
propulsion plant by the Commander of Sub-
marine Force, United States Pacific Fleet.

TRAINING

50 credits of college towards a nuclear
technology major.

Combustion Engineering Power Systems
Clavert Cliffs Simulator
Windsor, Connecticut

Rockwell International Energy Systems Group
Reactor Operations Course on L-85 Test Reactor
Canoga Park, California

Southern California Edison
Nuclear Plant Equipment Operator Training
on Physics, Primary and Secondary Systems

Southern California Edison
Basic Electricity Course

U. S. Naval Nuclear Power School
Hare Island, California

TRAINING (Continued)

Machinist Mate Class "A" School
Great Lakes, Illinois

PERSONAL DATA

Age 28, Married, 2 Children

Honorably discharged from United States
Navy in April 1979 in San Diego, California

Work Experience/Training

May1972-May1980 - Enlisted and honorably discharged from the U.S. Navy. During the 8 years I attended various naval schools(see attachment 1) and attained multiple qualifications(see attachment2).

April1980-May1981- Employed at Arkansas Nuclear One Unit 1 .
 Qualified Auxiliary Operator responsible for start-up,operation, inspection,adjustment,and shutdown of various auxiliary equipment,and assists in handling nuclear materials and shipments.
 Qualified Waste Control Operator responsible for start-up,operation,inspection,adjustment, and shutdown of various plant auxiliary equipment associated with the nuclear core.
 Qualified as the shift Health Physics Representative.

May1981-Sept.1981- Enrolled in Reactor Operator class, a course in reactor theory,heat transfer, and fluid dynamics,physics, water chemistry, systems analysis, transient and casualty studies.Course also includes three months of Control Room application and a three week Casualty Training course at the Babcock and Wilcox Simulator.

Sept.1981-March1982- Qualified Assistant Plant (Reactor) Operator
 The areas of responsibility include direct control of all reactivity or power level changes,operations of support equipment for the reactor and assist the Plant Operator with control of the secondary plant.

Mar.1 982-Mar.1983- Employed at Palo Verde Nuclear Generating Station as Nuclear Instructor II. Tasked with designing and implementing a training program for the Auxiliary Operators We used a four man team, of which I was Lead Coordinator responsibilities include coordination and implementation of lecture schedules, conducting a portion of the lectures auditing the content of the entire program and administration of examinations.

Mar.1983-present- Involved with initial training of license candidates, both classroom and simulator phase: responsibilities include lesson plan development and presentation, scheduling of classes, development and administration of examinations, all course documentation for the Basic/Advanced Simulator Also responsible for a one week accelerated review on the simulator prior to NRC exams, and a two week Instrument and Controls review course.

Qualifications:

Reactor Operator docket#55-8105 license#OP5641

Reactor Operator Certification(PVNGS) Aug.8,1983

Senior Reactor Operator Cert.(PVNGS) June22,1984

Senior Reactor Operator doc.#55-8105 lic.#SOP-50098

Education

Mira Loma High School
Sacramento, California
Graduated-June 1971

Memphis State University - Mathematics
Physics-Mechanics
Twenty-seven hours Heat Transfer and Thermodynamics
Electricity
Nuclear Physics
Reactor Physics
Radiation Protection
Fluid Flow
Chemistry
Instrumentation

Glendale Community College - Psychology
Sociology
Twenty-seven hours Marriage and Family Life
Philosophy
Mythology
Techniques of Supervision
First Aid and C.P.R.
Business Mathematics
Histories of Religion

Attachment 1

U.S. NAVAL SERVICE SCHOOLS

1. Machinist Mate A School - Study in mechanical theory and practical application of principles acquired. Course included lectures in pumps, turbines, valves, piping systems, steam generating equipment, blueprint reading, problem analysis methods, plant efficiency.
2. Academics - Refresher course on math, trigonometry, geometry, pre-calculus, sliderule.
3. Naval Nuclear Power School - Studies include heat transfer and fluid flow, thermodynamics, physics, nuclear physics, water chemistry, mechanical theory, reactor kinetics, reactor design and technology, metallurgy, and nuclear propulsion procedures.
4. Prototype Training (A1W) - Initial qualification, course consisted of the study of nuclear propulsion plant operations and procedures, maintenance requirements of various components, good engineering practices and theory related to safe operation of nuclear propulsion plants.
5. Damage Control School - A course in methods of handling casualties (fires, flooding, steam leaks, ruptures) both temporary and permanent in nature. Also, instruction in all types of fire fighting equipment.
6. Bearing and Lubrication - This school taught the proper removal and replacement of bearings, the correct use and application of various lubricants.
7. Gas Burning and Welding School - Introduction to burning and welding, studied types of torches, heat ranges for various jobs, silver brazing, hydrostatic testing of projects, use of insert type piping seals.
8. Machine and Tool School - To acquaint the student with various floor machines including horizontal lathe, versamill, drillpress, hydraulic press. Also, instructed to form our own tool bits, threading, tapers, inside and outside boring and gear construction.
9. Introduction to Preventive Maintenance - Course in set-up and follow of preventive maintenance programs.
10. Basic Instructor Techniques - School to prepare one for duties as instructor, includes lecture/seminar methods, counseling techniques, exam administration, oral board techniques, and remedial actions.
11. Evaporator School - Course on construction, maintenance, and principles of operation of Maxim 8000 gallon per day evaporator and 2000 gallon per day low pressure distilling plant.
12. Flex Hose and Fitting School - Study on proper care, inspection of flex hoses and couplings. Also, construction of hoses and types of hose per application.
13. Human Relations - Seminar on race relations, minority problems, potential solutions, methods to achieve harmonious working situations.

Attachment 2
Military Qualifications

- May 1972 - Attended Basic Training in San Diego, California. Held positions as Educational Petty Officer, Recruit Petty Officer 1st Class, and Recruit Chief Petty Officer. Received commendation as top Honor Man for having achieved highest grade point average.
- Aug 1972 - Received classroom instruction in Mechanical Theory and its practical application. Served as a section leader.
- Nov 1972 - Stationed on board U.S.S. Pyro (AE24) for four months, qualified in the following positions: Topwatch Shutdown and Throttles, Engineroom Lower Level, Evaporator, and Engineroom Upper Level (steaming).
- April 1973 - Attended and graduated from the U.S. Navy Nuclear Power School in Vallejo, California.
- Sept 1973 - Stationed at Nuclear Power Training Unit in Idaho Falls, Idaho.
- April 1974 - Stationed on board U.S.S. George Washington Carver (SSBN656), duty assignment in Machinery Division which included preventive maintenance for both primary and secondary systems, also responsible for calibration of all analytical equipment, preparation of all fuel, oil, and water reports, and assignment of service schools to division members. I achieved the qualification of Engineroom Supervisor, responsible for the Propulsion Plant operation. During the three Operational Reactor Safeguards Exams, I was stationed as Engineroom Supervisor.
- Oct 1976 - Assigned to Nuclear Power Training Unit Idaho Falls, Idaho. In addition to previous qualifications, I have attained the following new qualifications:

Machinery Watch Supervisor

Duties: Responsible for monitoring the plant operational safety and efficiency.

Shutdown Roving Watch

Duties: Maintaining plant pressure and temperature while shutdown, equipment line-up changes, monitor vital parameters, ensure safety throughout maintenance.

In Hull Instructor

Duties: Watch station instruction phase, lectures, seminars, exam administration, and final oral board.

Leading First for Machinery Division

Duties: Responsible for the activity of machinery division and implementation of new policies.



Leading Machinist

Duties: Manage and make duty assignment to a division of fourteen staff members and twenty qualified students, trouble shoot equipment failures, evaluate and critique performance of staff, plan manpower and material needs for maintenance shutdowns and preventive maintenance.

Command Programs Counselor

Duties: Screen, interview, counsel and process eligible candidates in drug and alcohol rehabilitation programs.

Proficiency Phase Coordinator

Duties: Specialized training for all students (Mechanical, Electrical, Reactor, Operator, and Engineering Officers), scheduling of watches and lectures.

Senior Mechanical Training Petty Officer

Duties: Supervise and manage the qualification progress of thirty-five men in initial and advanced qualification, assure proper watches, seminars, lectures, and examinations are conducted in an efficient manner.

RESUME

February 1985

William J. Rudolph

SUMMARY OF EXPERIENCE:

Offering more than 14 years of commercial nuclear power plant experience in the following important categories:

SIMULATOR SUPERVISOR...CO-ORDINATED NUMEROUS NRC SIMULATOR EXAMINATIONS...
INSTRUCTOR OF BASIC AND ADVANCED SIMULATOR COURSES...NRC SIMULATOR CERTIFIED...
CURRENTLY HOLDER OF SRO LICENSE...CONTROL ROOM OPERATOR...RADIATION
PROTECTION...HEALTH PHYSICS...ENVIRONMENTAL MONITORING...MECHANICAL AND
NUCLEAR ENGINEERING COURSES...RADIATION SURVEYS...WASTE DISPOSAL...
PRESSURIZED WATER REACTORS...CALIBRATION OF MONITORING AND SURVEY DEVICES...
TRAINING IN RADIATION PROTECTION...SHIPPING, RECEIVING AND STORAGE OF
RADIOACTIVE MATERIAL

EDUCATION:

1981 - 1982	Memphis State University, Major subjects Nuclear Reactor Fundamentals and STA Training (Maintaining "A" Average).
1982	Kepner-Tregoe Analytic Troubleshooting Program Leader, PVNGS, 2 weeks.
1982	Mitigation of Core Damage, PVNGS, 1 week.
1982	Accident Analysis and Design Basis, PVNGS, 2 weeks.
1982	GE Large Turbine Course, 4 weeks.
1982	CE System 80/NSSS, PVNGS, 8 weeks.
1982	CE Balance of Plant (System 80), PVNGS, 8 weeks.

EDUCATION Cont'd:

1980 Zion Reactor Simulator Training School, Zion, Ill.
1979 Fire Fighting School at Ansul, Iron Mountain, Wis.
1977 - 1978 Control Operator Classroom Training (RO), 18 months, Point Beach Nuclear Plant.
1971 - 1972 Chemistry and Health Physics Courses at Point Beach Nuclear Plant.
1967 Nuclear Weapons School, Lowry Air Force Base, 27 weeks.
1967 Basic Electronics, USAF, 10 weeks.

ACHIEVEMENTS:

1983 Successfully completed NRC Senior Reactor Operators examination at PVNGS - currently hold NRC License SOP 50038.
1978 Successfully completed Reactor Operator examinations at Point Beach Nuclear Plant, License No. 5069.
1970 I was three times the Non-Commissioned Officer of the Month at Hahn Air Force Base, Germany.

EXPERIENCE:

1981 - Present Palo Verde Nuclear Generating Station Senior Licensed Operator Instructor, NRC Certified Simulator Instructor, training SRO and RO license candidates in the classroom on all aspects of operations: Plant Systems, Reactor and Secondary Plant Control Systems, Procedures, Technical Specifications and Federal Regulations. Operate the plant specific simulator, familiarizing licensed candidates with routine operations and emergency response procedures. Assisted in the development of the PVNGS emergency preparedness drill evaluated by the NRC and FEMA.
1982 Coordinated and organized a systematic approach to training at the world's largest tertiary water treatment plant (Palo Verde Nuclear Generating Station) by use of Job Task Analysis. Supervised the hiring of staff, the purchasing of necessary equipment and training facilities, and implementation of training program.
1971 - 1981 Employed at Point Beach Nuclear Plant, Point Beach, Wisconsin.

EXPERIENCE Cont'd:

- 1978 - 1981 Licensed Reactor Operator on Units No. 1 and 2:
Accepted new fuel, shipped spent fuel, operated refueling machine during 6 refuelings. Manipulated plant during all modes of operation, i.e. from power operation, to shut down, to cool down, to refueling configuration, back to full power.
- 1973 - 1978 Five years experience as Auxiliary Operator. Gained expertise operating the following systems: Waste Evaporator, Blowdown Evaporator/Big Waste Evaporator, Boric Acid Gas Strippers, Spent Fuel Pit operation, and Fuel Pool operation.
- 1971 - 1973 Radiation Control and Chemistry Technician. Used, operated, calibrated many monitoring instruments including the following: the PIC-6A, the PAC-1S, the Thyac, the Nuclear Chicago, the Victoreen, etc. Performed the following surveys: Beta-Gamma, Alpha and Smear, and practiced basic radiological health procedures.
- 1970 - 1971 Served in USAF, Hahn, Germany, as munitions supervisor and nuclear maintenance controller for the squadron. Was responsible for movement and maintenance of numerous classified nuclear weapons systems.
- 1969 Received a Top Secret Critical Nuclear Weapon Design Information (CNWDI) clearance, necessary for my function as weapons comptroller.

OPERATING DEPARTMENT GUIDELINE NO. 37 REV. 0Applicability: Unit 1 X Unit 2 Unit 3 Admin All

Title: Responsibilities and Duties of the Shift Advisor.

Objective: To define the responsibilities and duties of Shift Advisors assigned to Unit 1.

Discussion: As committed to the NRC, PVNGS will use Shift Advisors on shifts that do not meet the industry position on hot operating experience. In addition, a Shift Advisor may be used to complement operation activities as determined by the Unit 1 Superintendent or the Operations Manager.

This guideline establishes the primary responsibilities, duties and working relationships of the Shift Advisor. This guideline will be rescinded upon completion of the commitment.

Responsibility:

- A) The Unit 1 Superintendent/Day Shift Supervisor will ensure the instructions of this guideline are carried out.
- B) The Shift Advisor will provide technical and administrative support to the Shift Supervisor, Unit Superintendent and Operations Manager.
- C) The Shift Advisor will provide advisory support to the operating shift crew. The Shift Advisor will review and assess the impact of significant shift activities that are scheduled or in progress and will keep control room personnel apprised of any potential problem areas. The Shift Advisor should be involved in significant shift operating decisions and recommend appropriate actions.

OPERATING DEPARTMENT GUIDELINE NO. 37

REV. 0

Instructions:

1. Working Relationships:

- A) The Shift Advisor assigned to a shift will report directly to the Shift Supervisor during normal operation and plant testing and to the Shift Technical Advisor during plant emergencies. The Shift Advisor will also work closely with all operations personnel as necessary to perform his duties.
- B) Shift Advisors not assigned to shift will report directly to the Day Shift Supervisor.
- C) The Shift Advisor will report any disagreements that cannot be resolved with the Shift Supervisor, which may affect safe operation of the plant, to the Day Shift Supervisor.
- D) The Shift Supervisor has final authority for any actions/recommendations from the Shift Advisor.

2. Assigned Responsibilities:

The Shift Advisor duties generally include the following tasks:

- A) Review and assess the impact of significant shift activities.
- B) Review Power Ascension Test procedures planned for the shift.
- C) Research any potential problems involving Technical Specifications and provide input based upon his experience.
- D) Review shift turnover checklists.
- E) Review operator logs.
- F) Review equipment status in the Control Room.
- G) Assist in review of plant problem reports.
- H) Assist in the preparation of required reports.
- I) Review and recommend revisions to Operating and Emergency procedures.

OPERATING DEPARTMENT GUIDELINE NO. 37

REV. 0

J) Participate in shift turnover and shift briefings.

K) Other tasks as assigned by the Shift Supervisor.

3. Limitations:

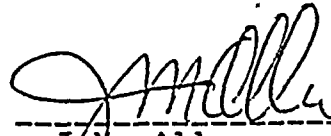
A) Duties/assignments shall not include those that require an operator license.

B) Duties will not include direct manipulation of equipment.

C) Duties will also not include supervision of licensed operators in assignments which require an operator's license.

EFFECTIVE DATE: January 11, 1985

APPROVED BY:



J.M. Allen
Operations Manager

SHIFT ADVISOR TRAINING COURSE

The purpose of this course is to familiarize temporary personnel with PVNGS systems and procedures to allow them to perform Shift Advisor duties. As Shift Advisors, no direct supervision of PVNGS personnel is authorized nor is direct manipulation of equipment permitted. For this reason, training is of a general nature regarding PVNGS operations and systems.

The course is intended to be of approximately four weeks duration; three weeks of classroom training and one week simulator. Included is the suggested course content and estimated presentation time.

WEEK ONE

- | | |
|--|-----------|
| 1. Shift Advisor responsibilities | (1 hr.) |
| 2. Conduct of shift operation | (1 hr.) |
| 3. Control Room reference materials and its use (P&ID's, Elementary) | (2 hrs.) |
| 4. PVNGS tech specs | (1 hr.) |
| 5. Radiation Control Procedures | (2 hrs.) |
| 6. Annunciator response | (1 hr.) |
| 7. PMS, SPDS, QSPDS | (4 hrs.) |
| 8. RCS, RVLMS | (8 hrs.) |
| 9. CVCS | (12 hrs.) |
| 10. PPCS, PLCS | (4 hrs.) |
| 11. Week One Test | (4 hrs.) |

WEEK TWO

- | | |
|---|----------|
| 1. PPS, CPC, SPS, COLSS, NI | (8 hrs.) |
| 2. Electrical distribution | (4 hrs.) |
| 3. Diesel generator | (4 hrs.) |
| 4. CEA position indication | (1 hr.) |
| 5. SBCS, FWCS | (4 hrs.) |
| 6. Safety injection and shutdown cooling | (8 hrs.) |
| 7. Spray pond, essential cooling water,, containment spray, essential chill water | (8 hrs.) |
| 8. Week Two Test | (3 hrs.) |

WEEK THREE

- | | |
|---|-----------|
| 1. Generator, MSR, condensate, feed water | (6 hrs.) |
| 2. Auxiliary feed water | (2 hrs.) |
| 3. GOP's | (12 hrs.) |
| 4. EP and RO's | (12 hrs.) |
| 5. Final Test | (8 hrs.) |

SIMULATOR TRAINING (50% Classroom - 50% Simulator)

- | | |
|---|----------|
| 1. Plant startup | (8 hrs.) |
| 2. Plant shutdown | (8 hrs.) |
| 3. Instrument failures, transients, reactor trips | (8 hrs.) |
| 4. Casualties (LOCA, SG tube fail, etc.) | (8 hrs.) |
| 5. Evaluations | (8 hrs.) |

