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BOUCHEY,G.D. Washington Public Power Supply System
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Responds to 820305 telcon.Submits info re training program for shift support supervisor per SER open items.Course outlines for BWR sys analysis & sys & procedures, encl.

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Washington Public Power Supply System
P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

March 9, 1982
G02-82-314

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Docket No. 50-397

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
SER OPEN ITEMS
LICENSING QUALIFICATION BRANCH

Reference: Supply System letter G02-82-279, G.D. Bouchey (S.S.), to A. Schwencer (NRC), same subject, dated March 2, 1982

During a recent telephone coversation between Messrs. R. Auluck and F. Allenspach, NRC Staff, and Mr. Rod Davidson, Supply System, on March 5, 1982, it was requested that the Supply System further clarify concerns regarding "Training Program for Shift Support Supervisor." This topic was previously addressed in the referenced letter.

In response to this request we submit the following attached information:

1) WNP-2 BWR Systems Analysis Course Outline
2) WNP-2 Systems and Procedures Training Course Outline

The Supply System believes that a shift support supervisor who satisfactorily completes the WNP-2 BWR Systems Analysis Course will have enough systems knowledge to be competent to assess the potential safety consequences of a fire and inform the control room of same. However, we will be glad to discuss further systems training if, after reviewing the attached course descriptions, you feel more training is necessary.

Very truly yours,

GD Bouchey

G. D. Bouchey
Deputy Director, Safety and Security

kp

cc: R Auluck -NRC
WS Chin -BPA
R Feil -NRC
F Allenspach-NRC

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WNP-2 BWR SYSTEMS ANALYSIS COURSE OUTLINE

This course is basically a BWR Technology class covering detailed NSSS And BOP Systems and component descriptions, instrumentation and system interrelationships.

The course will be taught in the large training room (#219) of the Service Building on a half day basis (7:45 - 11:45 am) over a period of eleven weeks beginning Monday, October 6, 1980. The week of November 24 - 28 will be off due to Thanksgiving holidays. Weekly one hour tests covering the previous week's material will be administered every Friday morning and returned for review every Monday. Short weekly quizzes will also be admiinistered. A comprehensive four-hour final exam will be given on the last day of the course. The tests will be retained in the individual's training record after review. Successful completion of the course is determined using a weighted average of the tests. Students averaging 80 percent or better will be awarded a certificate of successful course completion.

The attached schedule indicates the training material to be covered each day as well as the test schedule. Although the schedule may be somewhat flexible, we will attempt to stay on it.

Whenever possible, tours of the model shop, control room, and actual plant will be conducted to further enhance the training effort.

Although this class is scheduled on a half day basis, supervisors should realize that 2-3 hours of additional study per day (and in some cases, more) will be requried to successfully complete this program.

WEEK 1

October 6 - October 10

Monday, Oct. 6	-	Course Introduction Reactor Vessel and Internals
Tuesday, Oct. 7	-	Reactor Vessel and Internals (continued)
Wednesday, Oct. 8	-	Fuel Description
Thursday, Oct. 9	-	Reactor Vessel Instrumentation
Friday, Oct. 10	-	EXAM #1 Control Rod Drive Mechanism

WEEK 2

October 13 - October 17

Monday, Oct. 13	-	EXAM #1 REVIEW Control Rod Drive Hydraulics
Tuesday, Oct. 14	-	Reactor Manual Control System
Wednesday, Oct. 15	-	Recirculation System
Thursday, Oct. 16	-	Recirculation Flow Control System
Friday, Oct. 17	-	EXAM #2 Reactor Water Cleanup System

WEEK 3

October 20 - October 24

Monday, Oct. 20	-	EXAM #2 REVIEW Main Steam System
Tuesday, Oct. 21	-	Main Turbine
Wednesday, Oct. 22	-	Digital Electrohydraulic Control System
Thursday, Oct. 23	-	Columbus Day Holiday for Bargaining Unit Employees
Friday, Oct. 24	-	EXAM #3 Circulating Water and Tower Makeup Systems

WEEK 4

October 27 - October 31

Monday, Oct. 27	-	EXAM #3 REVIEW Condensate and Feedwater System
Tuesday, Oct. 28	-	Feedwater Level Control
Wednesday, Oct. 29	-	Main Generator and Excitation
Thursday, Oct. 30	-	Electical Distribution
Friday, Oct. 31	-	EXAM #4 Source Range Monitor

WEEK 5

November 3 - November 7

Monday, November 3	-	EXAM #4 REVIEW Source Range Monitor (continued)
Tuesday, November 4		Intermediate Range Monitor
Wednesday, November 5	-	Local Power Range Monitoring Traversing Incore Probe
Thursday, November 6	-	Average Power Range Monitoring
Friday, November 7	-	EXAM #5 Rod Block Monitor

WEEK 6

November 10 - November 14

Monday, November 10	-	EXAM #5 REVIEW Rod Worth Minimizer
Tuesday, November 11	-	Rod Sequence Control System
Wednesday, November 12	-	Reactor Protection System
Thursday, November 13	-	BWR Thermal Hydraulics
Friday, November 14	-	EXAM #6 BWR Chemistry

WEEK 7

November 17 - November 21

Monday, November 17	-	EXAM #6 REVIEW Gaseous Radwaste
Tuesday, November 18	-	Liquid Radwaste Solid Radwaste
Wednesday, November 19	-	Process Radiation Monitoring Area Radiation Monitoring
Thursday, November 20	-	Primary Containment
Friday, November 21	-	EXAM #7 Secondary Containment

WEEK 8

December 1 - December 5

Monday, December 1	-	EXAM #7 REVIEW Fuel Pool Cooling and Cleanup System
Tuesday, December 2	-	Standby Liquid Control System
Wednesday, December 3	-	Reactor Core Isolation Cooling System
Thursday, December 4	-	Introduction to Emergency Core Cooling System
Friday, December 5	-	EXAM #8 High Pressure Core Spray System

WEEK 9

December 8 - December 12

Monday, December 8	-	EXAM #8 REVIEW Automatic Depressurization System
Tuesday, December 9	-	Residual Heat Removal System
Wednesday, December 10	-	Residual Heat Removal System (continued)
Thursday, December 11	-	Low Pressure Core Spray System ECCS Integrated Response & Transient Analysis
Friday, December 12	-	EXAM #9 Process Computer

WEEK 10

December 15 - December 19

Monday, December 15	-	EXAM #9 REVIEW Plant Service Water System Reactor Building Closed Cooling Water System
Tuesday, December 16	-	Standby Service Water System
Wednesday, December 17	-	Plant Startup and Fuel Handling
Thursday, December 18	-	BWR System Analysis Course Review
Friday, December 19	-	FINAL EXAM

WNP-2
SYSTEMS AND PROCEDURES TRAINING

This program will be presented as a 14 week, 5 days/week, 8 hours/day formal classroom training program. The course is scheduled to allow for both in-classroom lectures and plant tours.

The in-classroom instruction will cover a short review of basic system knowledge, technical specifications, FSAR, logic and control diagrams and control room controls and indications. Operating, emergency and abnormal procedures associated with each system will be discussed. The intent of this portion of the training is not to cover every procedure, but to present the procedures in an overview manner pointing out the salient points of the procedure.

The tours will be of the control room as well as the plant. The tours are meant to improve the individual's knowledge of system component location and allow time to walkthrough important equipment procedures.

Each Friday will be exam day. The morning will be for evaluated tours and the afternoon for written examinations.

The evaluated tours will be conducted as close to NRC conducted walk-through as possible. Checklists will be utilized to evaluate the students knowledge of systems facts, locations of components and knowledge of procedures and system interrelationships. These tours will give the student an opportunity to practice for oral examinations as well as providing a means of testing depth of knowledge. Tours will be 1 ½ hours in length.

Written examinations will be of the short answer/essay type. They will be from three to four hours in length.

Both tours and written examinations will be comprehensive with a final tour and written examination at the end of the course. The student should understand that he is responsible for any material covered up to the examination.

Fridays are Exam Days

	Monday	Tuesday	Wednesday	Thursday
Week 1	Theory	Theory	Theory	Theory
Week 2	Theory	Thoery	Theory	Theory
Week 3	AC Dist.	AC Dist. Tour	DC Dist. UPS Tour	DG Tour
Week 4	TMU/CW TSW	Tour SW	RCC Tour	Fuel Pool Cooling Tour
Week 5	Condensate	Feedwater	Tour	RWCU/Supervisory Tour
Week 6	RCIC HPCS	Tour ADS	LPCS Tour	SBLC Tour
Week 7	RHR	RHR	Tour	Leak Detection Tour
Week 8	Recirc. Recirc. Flow Control	Tour CRD Mech.	CRDH's Tour	Equip. Drains Floor Drains Tour
Week 9	Main Steam	Main Turbine EXT Steam Tour	Seal STM Turbine Oil Tour	Control and Service Air Tour
Week 10	Main Gen. & Excitation Tour	H2/CO2 Seal Oil Tour	Stator Cooling/ Bus Duct Cooling Tour	Remote Shutdown Panel
Week 11	Primary/Secondary Containment SBGT	CAC Rx Bld HVAC	Tour Air Removal	Off Gas Tour
Week 12	Nuclear Instr.	Nuclear Instr. Tour	Vessel Instr.	Vessel Instr. Tour
Week 13	RPS Tour	RMCS Tour	Process Computer Tour	RSCS RWM Tour
Week 14	DEH	Study	Study	Final Tours
Week 15				
Week 16				