SHIFT ADVISOR TRAINING PROGRAM

A. STATEMENT OF APPLICABILITY:

The purpose of this procedure is to outline how the Byron Station Shift Advisor Training Program is to be conducted.

B. REFERENCES:

- 1. Licensed Operator Training Lesson Plans.
- Shift Advisor Certification Guide, BTP 100-T107.
- 3. Shift Advisor Oral Exam Document, BTP 100-T108.

C. MAIN BODY:

- The Byron Station Shift Advisor Training Program shall be conducted by the Byron Station Training Department.
- Personnel to receive Shift Advisor training shall be identified by the Byron Station Operating Department.
- The Shift Advisor Training Program will consist of three phases and will be concluded with the certification of the trainee as a certified Shift Advisor.
- 4. Phase I of the Shift Advisor Training Program under the direction of the Byron Station Training Department shall consist of:
 - a. Classroom instruction covering:
 - 1). Reactor Coolant System
 - 2). Reactor Coolant Pumps
 - 3). Pressurizer System
 - 4). Nuclear Fuel
 - 5). Excore Nuclear Instrumentation System
 - 6). Reactor Rod Control System
 - 7). Digital Rod Position Indication
 - 8). Reactor Make-up Control System
 - . Chemical Volume and Control System
 - 10). Boron Thermal Regeneration System
 - 11). AC/DC Electrical Distribution
 - 12). Main Generator
 - 13). Emergency Diesel Generators
 - 14). Emergency Core Cooling System
 - 15). Containment Spray System
 - 16). Component Cooling Water System
 - 17). Essential Service Water System
 - 18). Non-Essential Service Water System
 - 19). Circulating Water System
 - 20). Main Steam System

APPROVED

AUG 2 0 1984

B. O. C.

21). Steam Dump System

22). Condensate/Feedwater Systems

23). Auxiliary Feedwater System

24). Turbine Controls and Auxiliary System

25). MSR Control

- 26). Reactor Protection System
- 27). Engineered Safety Features Actuation System

28). Radiation Monitoring Systems

29). Fuel Handling

- 30). Gaseous Radwaste System
- 31). Liquid Radwaste System
- Byron General Operating Procedures (BGP's)
- 33). Byron Abnormal Operating Procedures (BOA's)
- 34). Generating Station Emergency Plan (GSEP)
- 35). Radiation Standards
- 36). Reactor Trip Root Cause Determination
- 37). Byron Emergency Procedures (BEP's)
- 38). Byron Administrative Procedures (BAP's)
- 39). BOS LCOAR
- 40). Byron Technical Specification
- b. Phase I is to be conducted in two segments, the first being 20 adays with a written quiz being conducted following each 5 days, as a maximum, of classroom instruction. The second segment of Phase I shall be 5 days in length and is comprised of a comprehensive written final exam and an oral exam.
 - The oral exam review board shall be comprised of two training department personnel, one operating department person, and one trainee. The oral exam requires all examiners to agree on the trainee passing the SHIFT ADVISOR ORAL EXAM.
 - 2). The Shift Advisor Oral Exam Document, BTP 100-T108, shall be used to document the trainee's oral exam. BTP 100-T108 is comprised of three sections.
 - a). Section I is used to document the topics covered during the oral exam. Each topic must be identified as being discussed satisfactorily/unsatisfactorily in the S/U column provided.
 - b). Section II is the "Comments" section for the examiners to note any strengths/weaknesses of the trainee.
 - c). Section III will be used to indicate the results of the oral exam and also provide a location for the signatures of the examiners. The Training Supervisor's signature is required for final approval.

APPROVED

AUG 2 0 1984

- 5. Phase II of the Shift Advisor Training Program shall be under the direction of Byron Station Operating Department Phase II shall be 10 days in length with the trainee being assigned to a shift or shifts as appropriate to complete the Shift Advisor Certification Guide BTP 100-T107.
- Phase III shall be conducted by either Byron Training Department or Production Training Department.
- 7. Phase III shall be five days of simulator training at Production Training Center. The intent is to familiarize the Shift Advisors with the Byron controls and plant responses.
- 8. The simulator training program shall cover the following areas:
 - SYSTEMS KNOWLEDGE
 - RX THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
 - GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
 - NORMAL OPERATING PROCEDURES
 - ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
 - TECHNICAL SPECIFICATIONS
 - ABILITY TO OPERATE THE CONTROL BOARD
 - ABILITY TO SUPERVISE NORMAL PLANT OPERATION
 - ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
 - OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SFTY 3] CO-WRKRS 4] TRNG
 - LEADERSHIP
- Upon successful completion of the three phases, the trainee shall be recognized by the facility as a certified Shift Advisor.
 - a. Successful completion of Phase I is determined by the trainee having:
 - Achieved an overall examination score average of 80% or higher with no one examination score less than 70%.
 - 2). Passed Oral Exam.
 - b. Successful completion of Phase II is to be determined by both the completion of the Shift Advisor Certification Guide BTP 100-1107 and the submission of this guide to the Byron Training Department.
 - c. Successful completion of Phase III shall be determined by a satisfatory evaluation completed by the Shift Advisor's respective Simulator Instructor.
- 10. The Shift Advisor shall participate in the Shift Advisor Requalification Training Program. This program will be conducted during the first week of the Shift Advisors respective shift's requalification training program, and will include:

APPROVED

AUG 201984

- a. 1.) LER's
 - 2.) INPO SOER'S
 - 3.) Current Industry Information
 - 4.) Procedure Revision
 - 5.) Plant System Modification
- b. Annual participation on the Byron/Braidwaood simulator.
- 11. Upon sucessful completion of the course, a certificate shall be issued to each trainee.
- 12. The course shall be documented using course code <u>Y-STAP</u>, file number 1.6.1001 and Keyworded Shift Advisor XX-X*.
- * XX-X represents the last two digits of the calendar year followed by the sequential number of the class in that year.

PPPROVED

AUG 2 0 1984

8. O. S. R.

Appendix E Revised Shift Advisor Exam Results

SHIFT ADVISOR 84-2 CLASS

	WK 1	WK2	WK3	WK4	FINAL
				(AVE-91.3)	
Bob Femal	88.2	94.8	89.2	93.1	
Bob Glaze	81.5	88.8	85.7	(AVE-85.6) 86.3	
Brian Hughes	69.9 95.3 82.6	89.2	86.4	(AVE-84.8) 81.0	
Ermal Morris	60.1 96.4 78.3	85.1	88.4	(AVE-84.1) 84.4	
R.Tefertiller	95.4	94.8	94.4	(AVE-95.2) 96.2	
AVERAGE	85.2	90.5	88.8	88.2	1

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME Rodger	Ander	son	CLASS NO. 84-	1	DATE	8-17-84	
COURSE NAME	Shift	Advisor		EVALUATION	LEVEL		
						☐ SRO	
						SCRE	
						☐ STA	,

Ref	5	4	3	2*	1*	N/o	EVALUATED AREAS
1	x						SYSTEMS KNOWLEDGE
2	Х						RX THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3	х						GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4		х					NORMAL OPERATING PROCEDURES
5		Х					ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
6	х						TECHNICAL SPECIFICATIONS
7	x						ABILITY TO OPERATE THE CONTROL BOARD
8	Х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	х						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	Х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	х						LEADERSHIP
5-Ex	cell	ent	4-A	bove	Ave	rage	3-Average 2-Below Average 1-Poor N/Q-Not Observed

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-1 class simulator program consisted of 5 days, 4 hours of class and 4 hours of simulator operation. Rodger Anderson's knowledge of Byron Station's Systems was impressive. His leadership ability was excellent during abnormal and emergency conditions.

Additional Pages of Comments

Terrane D. Sule)

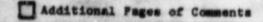
STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Bill	Mineric	h	CLASS NO	84-1	DATE _	8-17-84	
COURSE	NAME	Shift	Advisor		EVALUATION	LEVEL	□ RO	
							☐ SRO	
							SCRE	
							STA	

Ref	5	4	3	2*	1	N/0	EVALUATED AREAS
1		X					SYSTEMS KNOWLEDGE
2	Х						RE THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3	x						GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4	Х						NORMAL OPERATING PROCEDURES
5	Х						ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
6		Х					TECHNICAL SPECIPICATIONS
7		х					ABILITY TO OPERATE THE CONTROL BOARD
8	х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	х						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	X						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	х						LEADERSHIP
3-Ex	cell	ent	3-4	bore	Ave		Smarrage 2-Relow Average 1-Poor F/0-Wet Charmet

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-1 class simulator program consisted of 5 days, 4 hours of class and 4 hours of simulator operator. Bill Minerich displays definite experience at the Senior Reactor Operator Level by his ability to direct and control plant operations during abnormal and emergency conditions.



Terran De Sale D

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME Jim I	Hassinge	er	CLASS NO	84-1	DATE _	8-17-84	
COURSE NAME	Shift	Advisor		BVALUATION	LEVEL	RO SRO SCRE	

Ref	5	4	3	2*	1*	N/0	EVALUATED AREAS
1		X					SYSTEMS KNOWLEDGE
2		х					RI THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3	х						GOOD OPTRATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4	x						NORMAL OPERATING PROCEDURES
5	Х						ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
6	x						TECHNICAL SPECIPICATIONS
7		х					ABILITY TO OPERATE THE CONTROL BOARD
8	Х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	х						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	Х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	х						LEADERSHIP
5=Ex	cell	ent	4-A	bove	Ave	220	3-Average 2-Below Average 1-Poor N/O-Not Observed

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) Written Comments Required

The 84-1 class simulator program consisted of 5 days, 4 hours of class and 4 hours of simulator operation. Jim Hassinger's confidence and excellent operating ability was observed during normal, abnormal, and emergency operations.

Terren Dela D

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Brian	Hughe	5	CLASS NO.	84-2	DATE _	8-17-84
COURSE	NAME _	Shift	Advisor		EVALUATION	LEVEL	□ RO
							SRO SCRE
							STA

5	4	3	2*	1*	N/o	EVALUATED AREAS
		Х				SYSTEMS KNOWLEDGE
	X					RE THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
	х					GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
	x					NORMAL OPERATING PROCEDURES
	х					ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
		х				TECHNICAL SPECIFICATIONS
	х					ABILITY TO OPERATE THE CONTROL BOARD
	х					ABILITY TO SUPERVISE MORMAL PLANT OPERATION
v						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
	v					LEADERSHIP
۰	_	X X X	X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-2 Class simulator program consisted of 5 days, 8 hours per day of simulator operation. Brian Hughes displayed an excellent ability to direct operations during abnormal and emergency operations.

Willia M. Snow

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Ermal	Morris	3	CLASS NO	84-2	ATE_	8-17-84	
COURSE	NAME _	Shift	Advisor		EVALUATION		RO SRO SCRE	
							☐ STA	*

Ref	5	4	3	2*	1	N/0	EVALUATED AREAS
1			Х				SYSTEMS KNOWLEDGE
2		Х					RI THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3		Х					GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4		x			Н		NORMAL OPERATING PROCEDURES
5	X						ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
6			Х				TECHNICAL SPECIFICATIONS
7		х					ABILITY TO OPERATE THE CONTROL BOARD
8		х					ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	Х						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	Х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11		x					LEADERSHIP
5=Ex	cell	ent	4-A	bove	ATE	rage	3=Average 2=Below Average 1=Poor N/O=Not Observed

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-2 class simulator program consisted of 5 days, 8 hours per day of simulator operation. Ermal Morris showed a good working knowledge of the Byron Procedures and his excellent ability to direct his co-workers during abnormal and emergency conditions.

Willia M. Som

INSTRUCTOR

PRODUCTION TRAINING

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Bob	Glaze		CLASS NO. 84-	2 DATE	8-17-84
CCURSE	NAME	Shift	Advisor		EVALUATION LEVEL	□ RO □ SRO
						SCRE

Ref	5	4	3	2	1*	N/o	EVALUATED AREAS
1			X				SYSTEMS KNOWLEDGE
2		X					RX THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3		Х					GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4		X					NORMAL OPERATING PROCEDURES
5	х						ABNORMAL (OFF-NORMAL) AND EMERGENCY PROCEDURES
6			x				TECHNICAL SPECIFICATIONS
7		х					ABILITY TO OPERATE THE CONTROL BOARD
8	х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	х						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	Х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	х						LEADERSHIP
5=8x	cell	ent	4=A	bove	Ave	rage	3=Average 2=Below Average 1=Poor N/O=Not Observed

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-2 Class simulator program consisted of 5 days, 8 hours per day of simulator operations. Bob Glaze's ability to direct plant operations during abnormal and emergency conditions was impressive. He always demonstrated complete control from identification through recovery during these conditions.

Willis J. Som

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Rich	Tefert:	iller	CLASS NO.	84-2	DATE _	8-17-84	
COURSE	NAME .	Shift	Advisor		EVALUATION	LEVEL	RO SRO	
							SCRE STA	

Ref	5	4	3	2	1	N/o	EVALUATED AREAS
1	х						SYSTEMS KNOWLEDGE
2	х						RI THEORY, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3	х						GOOD OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4		х					NORMAL OPERATING PROCEDURES
5		х					ABNORMAL (OPP-HORMAL) AND EMERGENCY PROCEDURES
6		х					TECHNICAL SPECIFICATIONS
7		х					ABILITY TO OPERATE THE CONTROL BOARD
8	х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	x						ABILITY TO SUPERVISE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	Х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	х						LEADERSHIP
5=Ex	cell	ent	4=4	bove	Ave	rage	3=Average 2=Below Average 1=Poor N/O=Not Observed

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-2 Class simulator program consisted of 5 days, 8 hours per day of simulator operation. Rich Tefertiller's performance on the simulator was impressive. His past experience indicates expertise in good operating practices, and leadership qualities.

Additional Pages of Comments William

INSTRUCTOR

STUDENT SIMULATOR TRAINING EVALUATION CHECKLIST

NAME _	Bob	Femal		CLASS	NO.	84-2	DATE	8-17-84
COURSE	NAME	Shift	Advisor			EVALUATION	LEVEL	RO SRO SCRE

Ref	5	4	3	2.	1*	N	WALGATED AREAS
1		X					SYSTEMS KNOWLEDGE
2		X					AX THEON!, NUCLEAR POWER DIST, PWR CONTROL & THERMAL SCIENCES
3		х					OCCO OPERATING PRACTICES (COMM., LOGS, PLANT AWARENESS, ETC.)
4		x					NCRMAL OPERATING PROCEDURES
5		Х					ABNORMAL (OFF-HORMAL) AND EMERGENCY PROCEDURES
6			X				TECHNICAL SPECIFICATIONS
7		x					ABILITY TO OPERATE THE CONTROL BOARD
8	х						ABILITY TO SUPERVISE NORMAL PLANT OPERATION
9	Y						ABILITY TO SUPERVIFE OPS UNDER STRESS OR IN EMER. SITUATIONS
10	х						OBSERVED ATTITUDE TOWARDS: 1] OPS 2] SPTY 3] CO-WRERS 4] TRNG
11	v						LEADERSHIP

COMMENTS: (Strengths, Weaknesses, Areas Needing Improvements, etc.) *Written Comments Required

The 84-2 Class Simulator program consisted of 5 days, 8 hours per day of simulator operations. Bob Femal performed well and displayed excellent leadership qualities.

Willing Su INSTRUCTOR