## ATTACHMENT 3.2

EMERGENCY OPERATING PROCEDURE

VALIDATION PROCEDURE

POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

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Reviewed By RK Hann 5/30/67

Approved By Rh Newton 5/30/84

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### 1.0 OBJECTIVE

The objective of the Emergency Operating Procedure (EOP) validation procedure is to determine if the control room operators can manage emergency conditions in the plant using the EOPs. This determination can be made by evaluating the EOPs with regard to usability and operational correctness.

- Usability The EOPs provide sufficient information that is understandable to the operator.
- Operational Correctness The EOPs are compatible with plant responses, plant hardware, and the shift manpower.

This validation guideline is interdependent with an EOP verification program. The verification program encompasses the efforts necessary to evaluate the written correctness and technical accuracy of EOPs and will be covered in a separate procedure.

Westinghouse Owners Group has completed a comprehensive validation test of the Revision 1 Emergency Response Guidelines (ERGs). This generic test provides some assurance that the control room operators at PBNP can manage emergency conditions in the plant using the upgraded EOPs because the ERGs were a major source document used in the development of the EOPs. The test took place at the Public Service of New Hampshire Seabrook training simulator. As such, this validation procedure will not include instructions for the simulator method of validation but

will use the table-top and walk-through methods for the plant specific validation of EOPs.

# 2.0 REFERENCES

# 2.1 General

- WOG Emergency Response Guidelines Revision 1 Validation Program Flan, October 1983.
- Institute of Nuclear Power Operations (INPO) Guideline, "Emergency Operating Procedures Validation Guidelines", 83-006, July 1983.
- Emergency Operating Procedure Writer's Guide, PBNP, 1983.
- INPO Guideline Component Verification and System Validation Guideline, 83-047, December 1983.

# 2.2 EOP Validation Source Documents

- Westinghouse Owners Group "Emergency Response Guideline", Revision
   September 1, 1983.
- FSAR, Units 1 and 2, PBNP
- PBNP LER'S
- Latest revision of EOPs after the EOP verification is completed.

# 3.0 RESPONSIBILITIES

- 3.1 Manager-PBNP The Plant Manager shall approve all EOP's and revisions.
- 3.2 Manager's Supervisory Staff Manager's Supervisory Staff, or a subcommittee thereof, shall have the responsibility of reviewing the EOP's after the validation discrepancy resolutions have been incorporated, and making a recommendation to the Plant Manager.
- 3.3 <u>Superintendent-Operations (PBNP)</u> The Operations Superintendent shall approve the validation discrepancy resolutions.
- 3.4 <u>General Superintendent-(NSE&AS)</u> The General Superintendent shall have overall responsibility for the EOP validation process. He shall appoint an observer/review team.
- 3.5 <u>EOP Writer</u> The EOP Writer shall review and comment on the validation discrepancy resolutions before they are forwarded to the Operations Superintendent for approval. He shall incorporate approved resolutions into the EOP's.
- 3.6 <u>EOP Validation Team</u> The validation team shall specify the method of validation to be used for each scenario. The validation team shall act as reviewers/observers when operators are performing the walk-through and table-top validation methods. They shall recommend validation discrepancy resolutions for the Operations Superintendent's approval.

# 4.0 EOP VALIDATION PROCESS

# 4.1 Preparation Phase

### 4.1.1 Designate Personnel

- The validation team is to be selected by the General Superintendent of NSE&AS. Each member shall be assigned a set of scenarios to develop including the validation method to be used.
- Operators that are representative of the training level expected of all the operators, are to be selected by the Operations Superintendent.

#### 4.1.2 Obtain and Review the Source Documents

- Complete the preparation section of the EOP Validation Form (Form No. 1)
- Develop a scenario and complete the Scenario Form (Form No. 2).
- Review the Evaluation Criteria, Table 1.

# 4.2 Assessment Phase

In the assessment phase, the review team shall:

- Brief the operator on the scope of validation and how the assessment will be conducted.
- Follow the developed or modified scenario by first giving the initial plant conditions and then give the changing plant parameters as talking or walking through the procedure.
- Review/observe the operator performing the EOP by using the evaluation criteria (Table 1) applicable to the validation method chosen.
- Stop the talk-through or walk-through assessment for discussion of any identified discrepancies.
- Conduct a briefing with the operators as soon as possible after each walk-through assessment using the following sequence:
  - brief the participants on the purpose and objectives for debriefing
  - have operators present problems and discrepancies which they have identified during assessment
  - have operators provide possible reasons for problems
  - present other problems, and discrepancies identified during assessment
  - have operators describe possible reasons for the other problems
  - summarize the findings of the debriefing for the operators

- Complete the EOP Validation form (Form No. 1).
- Complete the Scenario form (Form No. 2).
- Indicate on a discrepancy sheet (Form No. 3) each discrepancy observed during the assessment phase.

# 4.3 Resolution Phase

In the resolution phase, the validation team shall initiate the following steps:

- The team is to determine a solution for each discrepancy and indicate this as the resolution on the discrepancy sheet (Form No. 3).
- The procedure writer will then review and comment on the proposed resolutions.
- After review and comment by the procedure writer, the discrepancy sheet with the EOP and any applicable source documents are sent to the Superintendent of Operations for approval of the resolution.
- If the resolution is not approved, the team is to determine a revised solution. A new discrepancy sheet is to be initiated and the full review and approval process completed.

 The procedure writer updates the EOP with all approved resolutions and returns the modified procedure to the team.

### 4.4 Documentation

Documentation will exist for the following:

- scope of the validation
- validation method(s) used
- participants
- scenario description
- evaluation criteria
- observer worksheet
- identified discrepancies
- discrepancy resolutions
- review and approval of resolutions

EOP Validation Forms (Forms 1 and 2) and Discrepancy Sheets
(Form 3) shall be maintained per the Administration Procedure,
PBNP 2.2.1, "Records Administration and Storage."

The revised EOPs are then submitted for approval per Administration Procedure PBNP 2.1.1, "Classification, Review, and Approval of Procedures."

Form No. 1

# EOP VALIDATION FORM

EOP TITLE:	
EOP NUMBER:	REVISION:
SCOPE OF VALIDATION:	
VALIDATION METHOD OR METHODS TO BE USED:	
Designated Observer/Reviewer(s)	
Preparation Completed on	
Assessment Completed on	By:
Operator(s) Involved:	Qualification: (SRO, RO, Other)
Resolution Completed on	By:
Documentation Packaged Forwarded on	Rv.

FORM #2

# TABLE-TOP/WALK-THROUGH SCENARIO FORM

SCENARIO NO.:	DATE:	
TITLE:		
SCOPE:		
	PECIAL INSTRUCTIONS:	
INITIAL PLANT C		
PROCEDURE NO., STEP NO., & DESCRIPTION	PLANT PARAMETER/ SYMPTOM	TRANSITION TO (PROCEDURE NO.)

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EOP WRITER REVIEW AND COMMENTS:	
BY:	DATE:
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OPERATIONS SUPERINTENDENT:	DATE:
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TABLE 1 EVALUATION CRITERIA

Applicab T-T	le to: I	USABILITY A. LEVE	L OF DETAIL
x	x	1.	Is there sufficient information to perform the specified actions at each step?
×	X	2.	Are the alternatives adequately described at each decision point?
X	X	3.	Are the labeling, abbreviations, and location information as provided in the EOP sufficient to enable the operator to find the needed equipment?
x	X	4.	Is the EOP missing information needed to manage the emergency condition?
Х	х	5.	Are the contingency actions sufficient to address the symptoms?
x	х	6.	Are the titles and numbers sufficiently descriptive to enable the operator to find referenced and branched procedures?
		B. UNDE	RSTANDABILITY
x	x	1.	Is the EOP easy to read?
x	x	2.	Are the figures and tables easy and accurately read?
X	x	3.	Is interpolation of values on figures and charts difficult?
X	X	4.	Are caution and note statements readily understandable?
x	x	5.	Are the EOP steps readily understandable?
x	x	6.	Are the emphasized items noticed?
Legend:			

- x applicable to the validation method
  o not applicable to the validation method
  T-T Table-Top validation method
  W-T Walk-Through validation method

T-T	W-T			
		II. OPER	RATION	NAL CORRECTNESS
		Α.	PLAN	T COMPATIBILITY
0	x		1.	Can the actions specified in the procedure be performed in the designated sequence?
×	×		2.	Are there alternative success paths that are not included in the SOP?
0	х		3.	Can the information from the plant instrumentation be obtained, as specified by the EOP?
x	x		4.	Are the plant symptoms specified by the EOP adequate to enable the operator to select the applicable EOP?
X	x		5.	Is information or equipment not specified in the EOP required to accomplish the task?
0	x		6.	Are the instrument readings and tolerances stated in the EOP consistent with the instrument values displayed on the instruments?
0	X		7.	Is the EOP physically compatible with the work situation (too bulky to hold, binding would not allow them to lay flat in work space, no place to lay the EOPs down to use)?
0	×		8.	Are the instrument readings and tolerances specified by the EOP for remotely located instruments accurate?
		В.	OPE	RATOR COMPATIBILITY
0	X		1.	If time intervals are specified, can the procedure action steps be performed on the plant within or at the designated time intervals?
×	х		2.	Can the procedure action steps be performed by the operating shift?
x	x		3.	If specific actions are assigned to individua shift personnel, does the EOP adequately aid in the coordination of actions among shift personnel where necessary?
x	x		4.	Can the operating shift follow the designated action step sequences?

T-T	W-T	
x	×	5. Can the particular steps or sets of steps be readily located when required?
0	×	6. Can the procedure exit point be returned to without omitting steps when required?
x	×	7. Can the branched procedure be entered at the correct point?
х	×	8. Are EOP exit points specified adequately?

# ATTACHMENT 3.3

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В.	Technical Accuracy			
	AREA	ACCEPTABLE	DISCREPANCY SHEE	T #(s)
	Entry Conditions or Symptoms		3,4,5	

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### ATTACHMENT 4

### EOP TRAINING PROGRAM DESCRIPTION

Current plans for EOP training are being developed and include the following:

- 1. Approximately 8 days training in a classroom environment covering background information, organization and networking of procedures, format and use of procedures, specific procedures, and critical safety functions. Specific procedures to be covered include:
  - Reactor Trip or Safety Injection
  - Loss of Reactor or Secondary Coolant
  - Faulted Steam Generator Isolation
  - Steam Generator Tube Rupture
  - Loss of All AC Power
  - Loss of Recirculation Cooling
  - Loss of Reactor Coolant Outside Containment
  - Uncontrolled depressurization of all Steam Generators
  - Loss of Reactor Coolant Subcooled Recovery - Loss of Reactor Coolant - Saturated Recovery
  - Steam Generator Tube Rupture without Pressurizer Pressure Control
  - Critical Safety Procedures
- 2. Approximately 5 days of simulator training demonstrating use of procedures in a simulated accident.

The training is being developed in the PBNP Course Format and will contain specific units of instruction and detailed lesson plans for both classroom and simulator instruction. Objectives will be written to define knowledge and skills required of attending personnel. Evaluation of operator knowledge and skills will be accomplished by written tests and simulator exams.

The training is planned to begin during the week of July 9, 1984, and continue through the week of November 12, 1984. All licensed RO and SRO's are scheduled to attend, as are 20 trainees. Duty Technical Advisors will attend selected portions of this scheduled training.