

BOSTON EDISON

NUCLEAR OPERATIONS DEPARTMENT
PILGRIM NUCLEAR POWER STATION
Procedure No. 1.3.4-14
EOP VALIDATION PROGRAM

Total Pages: 37

Approved HF Brennan 7/7/87
Quality Assurance Manager /Date

Approved [Signature] 7/6/87
Nuclear Operations Manager /Date

Safety Evaluation: ~~Required~~/Not Required

Proc. 1.3.4-14 Rev. 0
Page 1 of 37

BB10130416 BB0907
PDR FOIA
JOHNSON88-198 PDR

FOR INFORMATION
ONLY

Table of Contents

<u>Section</u>		<u>Page</u>
I.	<u>PURPOSE</u>	3
II.	<u>APPLICABILITY</u>	3
III.	<u>DEFINITIONS</u>	3
IV.	<u>REQUIREMENTS AND INSTRUCTIONS</u>	
A.	Validation Methodology and Evaluation Techniques	4
B.	Scenario Development	7
C.	Validation Team Member Composition and Qualifications	8
D.	Performance of EOP Validation Exercises	8
E.	Recording the Results of EOP Validation Exercises	10
F.	Evaluating, Resolving, and Correcting Identified Discrepancies	11
G.	Documentation	12
V.	<u>ATTACHMENTS</u>	
A.	FORMS FOR DEVELOPMENT AND PERFORMANCE OF EOP VALIDATION PROGRAM ACTIVITIES	
B.	EOP VALIDATION PROGRAM EXERCISE CHECKLIST	
C.	EOP VALIDATION PROGRAM EXERCISE QUESTIONNAIRE	

I PURPOSE

This document provides appropriate requirements and instructions for validating the PNPS Emergency Operating Procedures (EOPs).

II. APPLICABILITY

The requirements and instructions specified herein apply to the overall process of developing new EOPs and revising existing EOPs.

This document supplements existing PNPS procedures governing procedure preparation, revision, and control but does not supplant them.

III. DEFINITIONS

EOP Source Documents - Guidelines, procedures, data, and other records which comprise the technical basis of the EOPs and requirements for their development.

EOP Operational Correctness - An EOP characteristic that refers to the compatibility of the procedures with plant hardware, plant responses, operator capabilities, other plant procedures, and the composition and manning level of on-shift personnel.

EOP Validation - The process of confirming and documenting the operational correctness and usability of the EOPs.

EOP Usability - An EOP characteristic that refers to the adequacy of the procedures' level of detail and the understandability of the information presented in the procedure.

IV. REQUIREMENTS AND INSTRUCTIONS

A. Validation Methodology and Evaluation Techniques

As stated above, the general attributes of EOP usability and operational correctness are evaluated through the validation process. The specific EOP characteristics encompassed by this definition are as follows:

<u>Attribute</u>	<u>Procedure Characteristic</u>
Usability	Level of detail Understandability
Operational Correctness	Compatibility with plant hardware Compatibility with plant response Compatibility with other plant procedures Compatibility with operator capabilities Compatibility with normal shift composition and manning level

The evaluation criteria against which each of these procedure characteristics is evaluated are listed in Table 1 (page 5).

The EOP Validation Program employs the following evaluation techniques:

- Observation of licensed operators using the EOPs during real-time execution of multiple transient and accident scenarios conducted on the PNPS simulator.
- Walkthroughs/talkthroughs by licensed operators of those EOPs (and steps of EOPs) which cannot be effectively addressed through simulated exercises. Procedure walkthroughs shall be conducted in a control room setting (either at the plant or the PNPS simulator).
- Collection of operator opinions using prepared questionnaires.

Performance of validation activities and the results of associated evaluation shall be documented on the forms illustrated in Attachments A, B, and C. Additional details regarding preparation for and execution of individual EOP Validation Program activities are provided in the remaining sections of this procedure.

Table 1: EOP Validation Evaluation Criteria

<u>Characteristic</u>	<u>Evaluation Criteria</u>
Level of detail	<p>Does the EOP provide the information necessary for operators to evaluate key plant conditions and take the appropriate action?</p> <p>Is the level of detail provided in the EOP consistent with the knowledge and capabilities of the intended users?</p> <p>Where appropriate, are response times, equipment limitations, instrument inaccuracies, and contingency actions adequately addressed in the EOP?</p>
Understandability	<p>Are operators able to correctly, and in a timely manner, interpret each of the steps of the EOPs?</p>
Compatibility with plant hardware	<p>Does the existing plant design permit the performance of prescribed actions as directed (specifically considering the availability of both information and controls), and in the sequence specified?</p>
Compatibility with plant response	<p>Are the specified actions effective in stabilizing plant conditions?</p>
Compatibility with other procedures	<p>Is the wording that is used in the EOPs consistent with that of other plant procedures?</p> <p>Where references to plant procedures are provided, does the specified procedure exist, is the number and title correct, and does it provide the appropriate instructions for the task or activity intended by the context of the reference in the EOP?</p> <p>Are the actions prescribed in the EOPs compatible with those specified in other plant procedures which may have to be executed concurrently?</p>

IV. B. Scenario Development

Detailed event scenarios shall be developed to guide the performance of EOP validation exercises. The scenarios shall be of varying complexity and shall exercise to the fullest extent possible the scope of plant conditions and key actions addressed by the EOPs.

For the validation of revisions to the EOPs, the scope of scenarios need only encompass the changes made to the previously-approved procedures. If existing scenarios are determined to be adequate for this purpose, no new scenarios need be developed.

Scenario development should be a coordinated effort by a group of individuals having expertise in EOP development, plant systems and operations, and operator training. A trial check-out of the scenarios should be conducted prior to being used in the actual EOP validation exercises to ensure that the initial conditions and specified sequence of malfunctions will generate the desired plant symptoms and conditions. Also prior to actual use in validating the EOPs, scenarios shall be reviewed and approved by the Nuclear Training Organization.

The following process is suggested for developing the scenarios:

1. Identify the EOP flowpaths to be exercised.
2. At each major decision point in an EOP flowpath, specify the plant symptoms or conditions which would constrain operators to the desired response pattern.
3. Define system degradations, instructor actions, or event complications which could cause the specified plant symptoms or conditions.
4. Select initial plant conditions and simulator malfunctions which will initiate and cause plant conditions to progress in accordance with the desired response patterns.
5. Record the necessary sequence of instructor actions, the anticipated plant response, and proper operator actions on an EOP Validation Scenario Outline (illustrated on page 3 of Attachment A.)
6. Prepare a simple matrix of EOP flowchart paths vs. scenarios to confirm that the key plant conditions and operator actions addressed by the EOPs are, in fact, covered by the combined scope of the scenarios.

IV. B. Scenario Development (Continued)

7. Complete an EOP Validation Scenario Cover Sheet (illustrated on page 4 of Attachment A) to accompany each Scenario Outline.

An EOP Validation Test Plan (illustrated on page 5 of Attachment A) shall be developed which specifies the sequence for running the scenarios. Simulator exercises for each day should progress from simple to complex scenarios. In order to minimize the possibility of the control room operators responding in advance to "expected" events, the following factors should also be considered in developing the Test Plan:

- Similar scenarios should not be executed consecutively.
- The initiating event, plant symptoms, and the flowpath through each of the EOPs should be varied in successive scenarios.

C. Validation Team Member Composition and Qualifications

The team formed to conduct EOP validation exercises shall be composed of a designated Director, a simulator instructor, and a group of licensed operators. The designated Director shall be fully knowledgeable of the new and revised EOPs to be validated, and shall be experienced in BWR plant operations. Licensed operators who are participating in a validation exercise shall be organized to form a standard on-shift complement of licensed control room operators including a Watch Engineer and Shift Supervisor, each performing their respective duties and assigned responsibilities.

All exercise participants shall have previously completed a formal training session on the organization, structure, conventions, and technical content of the EOP(s) being validated.

D. Performance of EOP Validation Exercises

EOP validation exercises shall be executed in the approved sequence specified in the Test Plan. The Exercise Director shall coordinate execution of each scenario.

The names of the Director, the simulator instructor, and the participating control room operators shall be recorded on the EOP Validation Exercise Performance Record (illustrated on page 6 of Appendix A) for each exercise conducted.

IV. D. Performance of EOP Validation Exercises (Continued)

Each exercise shall be conducted as follows:

1. Set the initial plant conditions as specified on the EOP Validation Scenario Cover Sheet and in the EOP Validation Scenario Outline.
2. Describe the initial plant conditions to all exercise participants.

For exercises conducted during the first part of a program for validating an entire set of EOPs, a brief description should also be given on the scenario's expected progression of events, anticipated plant responses, and the EOP(s) and EOP flowpaths intended to be validated. As participants become familiar with the validation process, this pre-exercise briefing should become increasingly more limited in scope and shall eventually be discontinued.

3. Run the scenario in accordance with the appropriate instructions detailed in the Scenario Outline. If a walkthrough/talkthrough sequence is required, the Director shall ask the control room operators to demonstrate and describe in detail the actions they would perform in response to the described plant conditions. As appropriate, the simulator instructor shall supply additional information specified in the Scenario Outline, including a description of the plant response to the actions the operators identify as having been taken.
4. Compare the actions taken (or described as having been taken) by the control room operators to the associated actions specified in the Scenario Outline. The Director (or designated assistant(s)) should note the following performance deviations at the appropriate location in the "Notes" column of the Scenario Outline:

- Performance of an inappropriate step or action
- Formulation of an incorrect response to a decision
- Misinterpretation of a procedure step
- Failure to perform a required (or expected) step or action
- Violation of a Limit
- Failure to observe a specified caution

If the Operator Actions listed on the Scenario Outline are performed correctly, a check mark (✓) should be placed in the "Notes" column alongside the action statement.

E. Recording the Results of EOP Validation Exercises

After finishing each scenario, the Director shall complete an EOP Validation Exercise Checklist (Attachment B) and each participating control room operator shall complete an EOP Validation Exercise Questionnaire (Attachment C.)

The Director shall review all of the completed Validation Exercise Questionnaires with the simulator instructor and control room operators who participated in the exercise prior to beginning the next scenario. Additional explanatory remarks shall be recorded directly on the respective Questionnaires as appropriate.

The Director shall assign a unique identification number to each performance deviation, procedure discrepancy, operator concern, and other deficiency identified on the completed Validation Scenario Outlines, the Exercise Checklists, and Exercise Questionnaires. Multiple occurrences of a particular deviation, discrepancy, concern or other deficiency may be assigned the same number.

The Director shall also complete a Part I EOP Validation Discrepancy Report (illustrated on page 7 of Attachment A) for each numbered performance deviation, procedure discrepancy, operator concern, and other identified deficiency. A complete description of the discrepancy shall be provided; if more space is needed for this purpose, a Continuation Sheet (illustrated on page 9 of Attachment A) shall be used and the "Continuation Sheet Attached" box on the report shall be checked. The sequential and total number of Continuation Sheets used for an individual discrepancy shall be identified in the appropriate blanks on each Continuation Sheet.

At the conclusion of all EOP validation exercises, the Director shall verify that all of the following items have been properly completed for each scenario:

1. EOP Validation Scenario Outlines and respective Cover Sheets
2. EOP Validation Exercise Performance Records
3. EOP Validation Exercise Checklists
4. EOP Validation Exercise Questionnaires
5. Part I EOP Validation Discrepancy Reports and associated Continuation Sheets
6. EOP Validation Test Plan

E. Recording the Results of EOP Validation Exercises
(Continued)

When completed, all of the items listed above shall be forwarded to the Nuclear Operations Section Manager for subsequent evaluation, resolution, and correction of identified discrepancies as described in Section F.

F. Evaluating, Resolving, and Correcting Identified Discrepancies

Each performance deviation, EOP discrepancy, operator concern, and other discrepancy identified through the validation process shall be analyzed to determine whether any corrective action is required. Resolution of all identified discrepancies and, if required, completion of associated corrective action(s) shall be documented on Part II of an EOP Validation Discrepancy Report (illustrated on page 8 on Attachment A.) If no corrective action is required, appropriate justification shall be provided.

The analysis and resolution of EOP discrepancies and the identification of appropriate corrective actions should be performed as a cooperative effort of several individuals having expertise in the EOPs, the EOP source documents, plant operation, and control room operator training. The procedure author(s) and individuals who participated in the validation exercises should also participate in the evaluation and resolution of identified discrepancies if possible. The following process shall be followed in completing this task:

1. Review the description of the discrepancy. (If those who participated in the validation exercises are also participating in the discrepancy review and resolution process, they can supply additional information, as necessary.)
2. Determine whether any corrective action is necessary.
3. If corrective action is appropriate, develop a recommended solution which corrects the discrepancy. Solutions may include changes to the EOP, additions to the EOP training program, modifications to plant equipment, or revisions to EOP source documents.

F. Evaluating, Resolving, and Correcting Identified Discrepancies
(Continued)

4. Document the agreed-upon corrective action on Part II of the EOP Validation Discrepancy Report, using Continuation Sheets as necessary to completely record the action to be taken. If it is concluded that no corrective action is required, provide appropriate justification. The individual who prepares the description of the required corrective action (or the justification for no corrective action) shall sign and date the Report in the space provided.
5. When the corrective action has been implemented, the individual who completes the corrective action shall sign and date the associated EOP Validation Discrepancy Report Part II in the space provided.
6. Satisfactory completion of the required corrective action shall be independently verified by an individual designated by the Nuclear Operations Section Manager. The person who performs this task shall sign and date the associated EOP Validation Discrepancy Report Part II in the space provided.

G. Documentation

Documentation of the validation of EOPs shall consist of the following items:

1. EOP Validation Scenario Outlines and respective Cover Sheets
2. EOP Validation Exercise Performance Records
3. EOP Validation Exercise Checklists
4. EOP Validation Exercise Questionnaires
5. Part I EOP Validation Discrepancy Reports and associated Continuation Sheets for each identified discrepancy
6. Part II EOP Validation Discrepancy Reports and associated Continuation Sheets for each identified discrepancy

G. Documentation (Continued)

The completed documentation package shall be returned to the Nuclear Operations Manager. A review of all materials for compliance with the requirements and instructions of the EOP Verification Program shall be performed by the Nuclear Operations Manager and the QA Director; these individuals shall sign and date the EOP Validation Record (illustrated on page 10 of Attachment A) when they have determined that all requirements have been satisfactorily completed.

All records of EOP Validation shall be retained as specified by NOD Procedure 1.3.7.

V. ATTACHMENTS

- A. Forms For Development and Performance of EOP Validation Program Activities
- B. EOP Validation Program Exercise Checklist
- C. EOP Validation Program Exercise Questionnaire

ATTACHMENT A

FORMS FOR
DEVELOPMENT AND PERFORMANCE
OF
EOP VALIDATION PROGRAM
ACTIVITIES

Table of Contents

	<u>Page A-</u>
EOP Validation Scenario Outline	3
EOP Validation Scenario Cover Sheet	4
EOP Validation Test Plan	5
EOP Validation Exercise Performance Record	6
EOP Validation Discrepancy Report, Part I	7
EOP Validation Discrepancy Report, Part II	8
EOP Validation Discrepancy Report Continuation Sheet	9
EOP Validation Record	10

Scenario # _____ PMPS EOP VALIDATION SCENARIO OUTLINE Page _____ of _____

TIME	INSTRUCTOR ACTION	PLANT RESPONSE	OPERATOR ACTION	NOTES

FOR INFORMATION
ONLY

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

EOP VALIDATION SCENARIO COVER SHEET

SCENARIO # _____

DESCRIPTION OF EVENT(S)/CONDITIONS (summary)

PROCEDURES EXERCISED
(number and revision, and scope of coverage)

INITIAL CONDITIONS (simulator IC number and description)

SIMULATOR MALFUNCTIONS (number and description)

EQUIPMENT OUT OF SERVICE (list)

ESTIMATED RUN TIME OF SCENARIO (hours) _____

Prepared by: _____

Date: _____

Reviewed/Approved by: _____

Nuclear Training Organization

Date: _____

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

Rev. _____

EOP VALIDATION TEST PLAN

DAY # ____: (Date _____)

Sequence	Scenario #	Run Time	Remarks
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

DAY # ____: (Date _____)

Sequence	Scenario #	Run Time	Remarks
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

Approved: Exercise Director _____

Date _____

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

EOP VALIDATION EXERCISE PERFORMANCE RECORD

SCENARIO # _____

PARTICIPANTS

Exercise Director _____

Simulator Director _____

Control Room
Operators
(Name and shift
position) _____

PERFORMANCE CHECKLIST

- Initial Conditions Set
- Participants briefed
- Scenario executed: Date _____ Time _____
- Performance deviations noted on Scenario Outline
- EOP Validation Exercise Checklist completed
- EOP Validation Exercise Questionnaire completed
- Exercise results reviewed with participants
- Part I EOP Validation Discrepancy Reports completed for each identified performance deviation, procedure discrepancy, operator concern, and other deficiency

All checklist items completed:

/s/ _____
Exercise Director

_____ Date

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

EOP VALIDATION DISCREPANCY REPORT

Part I

DISCREPANCY ID # _____

SCENARIO # DURING WHICH DISCREPANCY WAS NOTED _____

SOURCE OF DISCREPANCY

- Validation Scenario Outline
- Validation Exercise Checklist
- Validation Exercise Questionnaire
- Other (describe) _____

EOP APPLICABILITY

EOP number(s)
and revision

Flowchart Elements
(describe)

DESCRIPTION OF DISCREPANCY

Continuation Sheet(s) Attached

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

EOP VALIDATION DISCREPANCY REPORT

Part II

DISCREPANCY ID # _____

EOP APPLICABILITY (Number and revision) _____

CORRECTIVE ACTION (Description)

Continuation Sheet(s) Attached

Prepared by:

Name (Print) _____

Signature _____ Date _____

Implemented by:

Name (Print) _____

Signature _____ Date _____

Completion verified by:

Name (Print) _____

Signature _____ Date _____

BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION

EOP VALIDATION RECORD

EOPs VALIDATED (Number and Revision)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ATTACHMENTS

- EOP Validation Scenario Outlines and respective Cover Sheets
- EOP Validation Exercise Performance Records
- EOP Validation Exercise Checklists
- EOP Validation Exercise Questionnaires
- Part I EOP Validation Discrepancy Reports and associated Continuation Sheets for each identified discrepancy

REVIEWED BY:

Nuclear Operations
Manager

Date _____

QA Director

Date _____

ATTACHMENT B

EOP VALIDATION PROGRAM
EXERCISE CHECKLIST

Proc. 1.3.4-14 Rev. 0
Page 24 of 37
RTYPE H7.01

FOR INFORMATION
ONLY

INSTRUCTIONS FOR COMPLETING EOP VALIDATION EXERCISE CHECKLIST

The questions of this checklist shall be answered by the Exercise Director. One set of responses should be completed at the conclusion of each scenario.

This checklist should be completed as follows:

1. Use black ink.
2. Identify the scenario number upon which the attached answers and comments are based, and the date on which this scenario was run.
Scenario # _____ Date _____
3. Enter the scenario number on the top of each attached page in the space provided.
4. Answer each of the attached questions "yes" or "no" based on observation of the actions of the control room operators during the scenario. In the "Comments" section under each question provide EOP references as appropriate for the answer given. Also provide any additional remarks necessary to fully explain identified discrepancies, deficiencies, etc. Comments should be as specific as possible. Use the attached Comment Continuation Sheet when additional space is necessary to adequately explain a response to a particular question. Do not use the same Comment Continuation Sheet for making comments that are applicable to different questions.
5. When answers to all questions are completed, sign below.

NOTE

Discrepancy ID numbers shall be assigned after all EOP validation exercises have been completed.

Completed by:

Name (print) _____

Signature _____

Proc. 1.3.4-14 Rev. 0
Page 25 of 37
RTYPE H7.01

FOR INFORMATION
ONLY

SCENARIO # _____

EOP VALIDATION EXERCISE CHECKLIST

1. Did the operators recognize the occurrence of entry conditions and select the appropriate EOP(s)? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

2. Did the operators correctly perform all required actions, and do so in the proper sequence? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

3. Did the operators perform any inappropriate actions? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

FOR INFORMATION
ONLY

SCENARIO # _____

EOP VALIDATION EXERCISE CHECKLIST (Continued)

4. Did the operators appear to have difficulty understanding any of the decisions or instructional steps presented in the EOP(s)? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

5. Were the operators able to comply with all prescribed instructions and actions? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

6. Were the prescribed instructions and actions effective in stabilizing plant conditions? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

SCENARIO # _____

EOP VALIDATION EXERCISE CHECKLIST (Continued)

7. Did the operators appear to need additional guidance at any time during the transient? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

8. Were all necessary system controls and instrumentation available to the operators? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

9. Additional comments:

ATTACHMENT C

EOP VALIDATION PROGRAM
EXERCISE QUESTIONNAIRE

Proc. 1.3.4-14 Rev. 0
Page 30 of 37
RTYPE H7.01

FOR INFORMATION
ONLY

INSTRUCTIONS FOR COMPLETING EOP VALIDATION EXERCISE QUESTIONNAIRE

Each control room operator participant is requested to complete this questionnaire based on personal impressions and observations during the scenario just performed.

This Questionnaire should be completed as follows:

1. Use black ink.
2. Identify the scenario number upon which the attached answers and comments are based, and the date on which this scenario was run.
Scenario # _____ Date _____
3. Enter the scenario number on the top of each attached page in the space provided.
4. Answer each of the attached questions "yes" or "no" based on the results of the scenario just executed. In the "Comments" section under each question provide EOP references as appropriate for the answer given. Also provide any additional remarks necessary to fully explain identified discrepancies, deficiencies, etc. Comments should be as specific as possible. Use the attached Comment Continuation Sheet when additional space is necessary to adequately explain a response to a particular question. Additional copies of Comment Continuation Sheets are available; do not use the same Comment Continuation Sheet for making comments that are applicable to different questions.
5. When answers to all questions are completed, sign below.

NOTE

Discrepancy ID numbers will be assigned by the Exercise Director after all EOP validation exercises have been completed.

Completed by:

Name (print) _____

Signature _____

SCENARIO # _____

EOP VALIDATION EXERCISE QUESTIONNAIRE

1. Has it easy to determine when entry to an EOP was required? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

2. Has any instruction or decision in any of the EOPs difficult to understand? Ambiguous? etc. Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

3. Were you able to perform all the prescribed actions in the specified sequence? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

SCENARIO # _____

EOP VALIDATION EXERCISE QUESTIONNAIRE (Continued)

4. Has the flowpath through the EOP(s) easy to follow? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

5. Did you need any additional procedural guidance at any time during the transient? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

6. Has any unnecessary information present in the EOP(s) Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

SCENARIO # _____

EOP VALIDATION EXERCISE QUESTIONNAIRE (Continued)

7. Was the terminology used in the EOP(s) consistent with that used on the control panels and in other procedures? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

8. Were all graphs and tables in the EOP(s) easy to read and interpret? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

9. Were all required instrumentation and controls available in the control room? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

SCENARIO # _____

EOP VALIDATION EXERCISE QUESTIONNAIRE (Continued)

10. Did the available instrumentation provide the required range of indication and accuracy? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

11. Did the EOP(s) ever mislead you, specify inappropriate actions, or provide you with incorrect information? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

12. Were the prescribed actions compatible with those specified in other plant procedures that were being executed concurrently? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

SCENARIO # _____

EOP VALIDATION EXERCISE QUESTIONNAIRE (Cont'nued)

13. Where cross-references were provided in the EOP(s), was the specified procedure, section, step, etc., correct in each case? Yes No

Comments _____

Comment Continuation Sheet attached

Discrepancy ID # _____

14. Additional comments:

