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NINE MILE POINT NUCLEAR STATION

OPERATIONS UNIT 1

SRO/STA CANDIDATE OJT PERFORMANCE MANUAL

Issued By NMPC Training Department

APPROVALS	SIGNATURE	DATE AND INITIALS
		REVISION 3
Supervisor Training - Nuclear	J. Stewart	2/13/90
R. T. Seifried Assistant Superintendent Nuclear - Training	R. T. Seifried	2/16/90
M. J. Colomb Superintendent Operations	J. L. Scarpulla for M. J. Colomb	2/13/90

Summary of Pages

Revision: 3 (Effective Date: _____)

Number of Pages: 105

Date	Pages
January 1990	i, iii, 1-103

NIAGARA MOHAWK POWER CORPORATION

5/3/26

Revision 3 of the SRO/STA Candidate Performance Manual serves to incorporate existing OJT documents into a single SRO/STA Candidate Performance Manual, as well as to make necessary revisions to update these respective documents. These documents existed as separate documents prior to incorporation, each with its own revision number.

Revision 3 of the SRO/STA Candidate Performance Manual incorporates the following document:

SRO/STA Candidate OJT Manual -
System 201 Control Rod Drive Rev. 1 + Revisions
System 202 Reactor Recirculation System Rev. 1 + Revisions
System 205 Residual Heat Removal System Rev. 1 + Revisions
System 206 High Pressure Core Spray Rev. 1 + Revisions
System 209 Low Pressure Core Spray Rev. 1 + Revisions
System 211 Standby Liquid Control System Rev. 1 + Revisions
System 212 Reactor Protection System Rev. 1 + Revisions
System 214 Rod Position Indication System Rev. 2 + Revisions
System 215 Nuclear Instrumentation System Rev. 1 + Revisions
System 217 Reactor Core Isolation Cooling System Rev. 1 + Revisions
System 218 Automatic Depressurization System Rev. 1 + Revisions
System 221 Containment Entry and Exit Rev. 1 + Revisions
System 222 Drywell Cooling System Rev. 1 + Revisions
System 223 Containment System Rev. 1 + Revisions
System 234 Fuel Handling Equipment Rev. 1 + Revisions
System 261 Standby Gas Treatment System Rev. 0 + Revisions
System 262 AC Electrical Distribution System Rev. 1 + Revisions
System 263 DC Electrical Distribution System Rev. 1 + Revisions
System 264 Emergency Diesel Generators Rev. 1 + Revisions
System 271 Off-Gas System Rev. 1 + Revisions
System 286 Fire Protection Systems Rev. 0 + Revisions
System 288 Plant Ventilation Systems Rev. 0 + Revisions
System 291 Sump and Drain Systems Rev. 2 + Revisions
System 296 Remote Shutdown System Rev. 1 + Revisions
System 341 Normal Operation Rev. 1 + Revisions
System 342 Maintenance & Surveillance Rev. 1 + Revisions
System 343 Administrative Rev. 1 + Revisions
System 344 Emergency Operation Rev. 1 + Revisions

The revisions to these documents, where they occur, will be marked with a rev bar, and labeled as Revision 3.

SRO/STA CANDIDATE OJT MANUAL

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NINE MILE POINT UNIT II

SRO/STA CANDIDATE OJT PERFORMANCE MANUAL

PURPOSE: The purpose of the SRO/STA Candidate OJT Performance Manual is to provide a systematic method for SRO/STA Candidates to demonstrate proficiency in the performance of job tasks which have been identified in their working environment.

SCOPE: The SRO/STA Candidate OJT Performance Manual identifies tasks for which SRO/STA Candidates must demonstrate satisfactory performance prior to being considered qualified to perform that task without supervisory aid. The satisfactory performance of each identified task will be witnessed and documented in each SRO/STA Candidate's OJT Manual by a qualified evaluator. Qualified evaluators shall be identified by the Operations Superintendent or his designee.

DESCRIPTION:

A. Each SRO/STA Operator Candidate will be provided with an OJT Performance Manual. The proper use of this manual is described herein. Each system for which tasks are written is given a three-digit system identification number. Each task performed within or on this system receives a sequential number; e.g. 200.1, 200.2, 200.3. In this example 200 represents the system number and .1, .2 and .3 represent separate tasks. The STA Candidate shall complete the SRO/STA portion of this manual, and those tasks specific to STA Qualification. The Instant SRO Candidate (candidate without prior RO License at NMP-II) will also be required to complete the entire RO Manual in addition to all other manuals listed.

B. The Instructor Signature for Knowledge will be obtained from the instructor after you have successfully completed the apppropriate lecture, and have attained an 80% or higher on a written examination on the lecture material.

C. The satisfactory performance of each task will be witnessed, dated and signed off by a Qualified Evaluator on the Task Evaluator Sheet. The level of performances, "P" perform, "S" simulate, "D" discuss will be identified by the evaluator by circulating the appropriate letter designator. After the Instructor Signature for Knowledge and all task signatures are obtained, the Unit Training Supervisor or his Designee will date and sign the Task Complete space on the Task Evaluator Sheet. The Training Supervisor will then send the Task Evaluator Sheet and, if the individual has successfully completed Evaluator Training as specified in NTI 4.4.6, the Evaluator Certification Sheet to the Operations Superintendent. 3

D. The Operations Superintendent should then date and sign the Task Qualified space on the Task Evaluator Sheet. He may or may not date and sign the Evaluator Certification Sheet. Both forms are then returned to the Operations Training Supervisor.

E. The Unit II Operations Training Supervisor will then file the original Task Evaluator Sheet in the individual's OJT Manual. This program will be reviewed monthly. 3

F. Qualified evaluators shall be identified by the Operations Superintendent or his designee as specified in NTI 4.4.6, Section 5.

RESPONSIBILITY:

The primary responsibility for the completion of this manual is with the individual. The Operations Superintendent and Operations Training Department will provide assistance as required to aid the SRO/STA Candidate in the completion of the manual.

Task Qualification Format

1. The following sections are contained in each task qualification module:

   a. Cover sheet

      - Identifies task module
      - Approvals and revision number

   b. References

      - Provides a comprehensive list of procedures and other references as needed in order to satisfactorily perform identified job tasks for that qualification module.

   c. Objectives and Standards for Task Performance

      - Each task has a task code number for tracking the progress of SRO/STA Candidates.
      - Task performance criteria and objectives are listed.

   d. Task Summary Sheet

      - Each task requires an evaluator's signature to document satisfactory performance of that task and the level of performance circled.
      - This sheet serves as a record of satisfactory completion of the tasks listed in a module.
      - A copy of the Task Summary Sheet is kept with training records.
      - The Task Summary Sheet is periodically reviewed to update status of qualification.

3

Instructions to SRO/STA Candidates

1. The manual has Knowledge Requirements and Practical Requirements that must all be completed prior to the task completed signature being obtained.

2. The Knowledge Requirement, where required, is satisfied by the operator attending the scheduled lecture that satisfies the knowledge requirements of each subject area and satisfactorily completing a written exam on that subject. The exam will be given at a time designated by the Operations Training Supervisor. Satisfactory results are shown by obtaining 80% or greater on the exam. At this time, the Training Supervisor or his designee will sign and date the knowledge complete blank on the Task Summary Sheet.

3. PRACTICAL REQUIREMENT

   A. This requirement has an action code associated with each of the items listed. These action codes (P, S or D) designate the level of performance required for satisfactory completion of that item. A "P" designates actual performance which must be accomplished by the operator and witnessed by a qualified evaluator prior to obtaining the evaluator signature. An "S" designates simulation may be done in lieu of actual performance and witnessed by the qualified evaluator prior to obtaining the evaluator signature. A "D" designates discussion of the task with a qualified evaluator prior to obtaining the evaluator signature. Action code "P/S" will be driven by common sense and present plant conditions. If present plant conditions prohibit system operation to perform the task, then simulation is an acceptable criteria for task completion. Tasks followed by a + sign indicate that in-plant performance is required for that specific task.

B. The designator (P) "perform" shall be understood to pertain to only those actions actually performed by the student in the routine performance of the task.

C. The designator (S) "simulate" shall be understood as an in-plant walk-through of the steps necessary to perform a task. Switch locations, system indication locations, expected system responses and system operational constraints shall be discussed in a chronological order during the course of the simulation.

D. The designator (D) "discussion" shall be understood to pertain to those tasks which are not readily performed or simulated. The action code "discussion" shall be done with a qualified evaluator. In evaluating the trainee for a task, the evaluator should include a discussion of, but not limited to, personnel safety (including ALARA), proper use of procedures when operating equipment, correct application of appropriate Site Procedures (SP, SEPP, RPP, RAP, or others as appropriate), proper use of Technical Specifications and the proper use and routing of reports or documentation as required by procedures related to the task.

E. The candidate should review appropriate referenced procedures and material for identified job tasks prior to performing those tasks for the OJT evaluator.

F. The candidate should review the performance criteria and performance objective for each qualification task. Be prepared to answer questions based on the performance criteria for that task. The performance objective for that task shall be considered met if all actions performed are in accordance with referenced procedures.

G. For all tasks governed by a procedure or procedures, compliance to these procedures shall be required by the evaluator in order to consider you qualified to perform that task.

H. Notify a qualified evaluator of the job tasks you desire to perform for evaluation so that the evaluator can prepare and make necessary arrangements to evaluate you in a timely manner.

I. Task Qualification Modules are to be retained in your OJT Manual. When not in use the Manual shall be kept such that the Operations Training Supervisor or Operations Superintendent may have access to it as necessary. 3

J. Task Complete signature blocks will be signed when all other items on the Task Summary Sheet are signed off. Upon obtaining the Task Complete signature the Task Evaluator Sheet will be turned in to the Training Department program coordinator to be entered in the individual's personal training record.

K. The candidate must perform at least five (5) significant control manipulations in the plant that effect reactivity or power level. Manipulations of the controls of the plant must be documented in the SRO/STA Reactivity Changes Record Sheet. Manipulations of the controls simulated in the plant simulator may also be recorded in the SRO/STA Reactivity Changes Record Sheet. 3

EVALUATORS: Task evaluators on Nine Mile Point Unit II must hold an RO or SRO license and have completed the TSD, OJT evaluators course. Qualified simulator instructors may also sign-off tasks when performed in the simulator.

Instructions to Evaluator

1. Review appropriate referenced procedures and material for the applicable qualification tasks prior to evaluating the operator.

2. Review the performance criteria and practical requirements for each qualification task. Questions based on the performance criteria for each qualification task should be used to measure the operator's knowledge level for performing that task; written quizzes may be used for this purpose. The performance objective shall be considered met if all actions by the operator are performed for that task in accordance with referenced procedures.

3. For all tasks governed by a procedure or procedures, compliance to said procedures shall be required by the evaluator in order to consider an operator qualified to perform that task.

4. If any of the task performance criteria and/or performance objectives are not satisfactorily met, indicate the problem area to the operator. Do not sign the task evaluator block for that task in the Task Qualification module Checkoff Sheet.

5. The evaluator will indicate satisfactory performance for each task in the following manner:
   a. Ensure the student's name is written at the top of the Task Summary Sheet.
   b. Legibly sign the task on the "Evaluator" line in black ink.
   c. Circle the applicable "Action Code" to denote the level of performance.
   d. Include the date the evaluation was performed.

EVALUATOR CERTIFICATION SHEET

_____
Name

The above-named individual has successfully completed evaluator training.

_____
Unit II Operations Training Supervisor or Designee

I designate the above-named person as a certified evaluator for the following systems by initialing and dating the blanks.

_____
Operations Superintendent

System No.	System Name	Initials	Date
201	Control Rod Drive System	_____	_____
202	Reactor Recirculation System	_____	_____
205	Residual Heat Removal System	_____	_____
206	High Pressure Core Spray System	_____	_____
209	Low Pressure Core Spray System	_____	_____
211	Standby Liquid Control System	_____	_____
212	Reactor Protection System	_____	_____
214	Rod Position Indication System	_____	_____
215	Nuclear Instrument System	_____	_____
217	Reactor Core Isolation Cooling System	_____	_____
218	Automatic Depressurization System	_____	_____
221	Containment Entry and Exit	_____	_____
222	Drywell Cooling System	_____	_____
223	Containment Systems	_____	_____
234	Fuel Handling Equipment	_____	_____
261	Standby Gas Treatment System	_____	_____
262	AC Electrical Distribution System	_____	_____
263	DC Electrical Distribution System	_____	_____

EVALUATOR CERTIFICATION SHEET (CONT'D)

System No.	System Name	Initials	Date
264	Emergency Diesel Generators	_____	_____
271	Off-Gas System	_____	_____
286	Fire Protection System	_____	_____
288	Plant Ventilation Systems	_____	_____
291	Sumps and Drains	_____	_____
296	Remote Shutdown Systems	_____	_____
341	Normal Operations	_____	_____
342	Maintenance and Surveillance	_____	_____
343	Administrative	_____	_____
344	Emergency Operations	_____	_____

SRO/STA REACTIVITY CHANGES RECORD SHEET

FILE CODE:

DATE INITIAL	EVOLUTION PERFORMED	INITIAL POWER LEVEL	FINAL POWER LEVEL	PLANT/ SIMULATOR

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 201 CONTROL ROD DRIVE

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedure N2-OP-30, 95A, 95B, 96, 101A
C. NMPII Technical Specifications
D. NMPII Licensed Operator Text - CRD, CRDH, RMC, RPS

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Control Rod Drive System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-6
2. OLT-7
3. OLT-31
4. OLT-35

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

	ITEM	ACTION CODE
201.1	Read and discuss Technical Specifications requirements associated with reactivity controls	D
201.2	Verify Control Rods operable per Technical Specifications	P/S

Student's Name

SYSTEM 201 CONTROL ROD DRIVE

201.1 _____ D _____
Evaluator Date

201.2 _____ P/S _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-6 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-7 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-31 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-35 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 202 REACTOR RECIRCULATION SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures, N2-OP-29 - 101A, B,C
C. NMPII Licensed Operator Text, RRS, RRFC
D. NMPII Technical Specifications
E. NMPII Surveillance Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Reactor Recirculation System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-8
2. OLT-9

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3.

C. Practical Requirements

	ITEM	ACTION CODE
202.1	Determine Thermal Shock Temperature differential and flow rate prior to startup of idle recirc loop	P/S
202.2	Perform Reactor Vessel Head Flange and Shell Flange temperature verification (N2-OSP-RCS-@002)	P/S
202.3	Determine if Flow Mismatch exceeds Technical Specification requirements	P/S
202.4	Determine Jet Pump Operability	P/S
202.5	Determine Power to Flow to be within Technical Specification limits	P/S
202.6	Determine applicable limitations for single-loop operation	P/S
202.7	Verify Reactor Coolant leakage detection systems operable per Technical Specifications	P/S

_____
Student's Name

SYSTEM 202 REACTOR RECIRCULATION SYSTEM

202.1	_____ Evaluator	P/S	_____ Date
202.2	_____ Evaluator	P/S	_____ Date
202.3	_____ Evaluator	P/S	_____ Date
202.4	_____ Evaluator	P/S	_____ Date
202.5	_____ Evaluator	P/S	_____ Date
202.6	_____ Evaluator	P/S	_____ Date
202.7	_____ Evaluator	P/S	_____ Date

Knowledge Complete: _____ _____
OLT-8 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-9 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

I. SYSTEM 205 RESIDUAL HEAT REMOVAL SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK,ESK Drawings
B. NMPII Operating Procedures N2-OP-37
C. NMPII Licensed Operator Text RHR
D. NMPII Surveillance Test Procedures
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Residual Heat Removal System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-15

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

	ITEM	ACTION CODE
205.1	Monitor the RHR System for LPCI operability requirements per NMP Technical Specifications	P
205.2	Discuss operability requirements for shutdown cooling mode of RHR System	D

Student's Name

SYSTEM 205 RESIDUAL HEAT REMOVAL SYSTEM

205.1 _____ P _____
Evaluator Date

205.2 _____ D _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-15 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Complete: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 206 HIGH PRESSURE CORE SPRAY SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-33
C. NMPII Surveillance Test Procedures
D. NMPII Licensed Operator Text - CSH
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the High Pressure Coolant Injection System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-12

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
206.1	Discuss the HPCS System Technical Specifications operability requirements	P

Student's Name

SYSTEM 206 HIGH PRESSURE CORE SPRAY SYSTEM

206.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-12 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Complete: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 209 LOW PRESSURE CORE SPRAY SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-32
C. NMPII Surveillance Test Procedures
D. NMPII Licensed Operator Text
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Low Pressure Core Spray System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-14

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
209.1	Discuss the LPCS System Technical Specification operability requirements	P

_____
Student's Name

SYSTEM 209 LOW PRESSURE CORE SPRAY SYSTEM

209.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-14 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 211 STANDBY LIQUID CONTROL SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-36
C. NMPII Surveillance Test Procedures
D. NMPII Licensed Operator Text - SLC
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Standby Liquid Control System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-34

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
211.1	Monitor the SLCS for Technical Specification operability requirements	P
211.2	Determine Sodium Pentaborate requirements to provide adequate Shutdown Margin IAW Technical Specifications	P

Student's Name

SYSTEM 211 STANDBY LIQUID CONTROL SYSTEM

211.1 _____ P _____
Evaluator Date

211.2 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-34 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 212 REACTOR PROTECTION SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-97
C. NMPII Surveillance Test Procedures
D. NMPII Licensed Operator Text - RPS
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Reactor Protection System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-35

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
212.1	Monitor the RPS System for Technical Specification operability requirements	P

_____
Student's Name

SYSTEM 212 REACTOR PROTECTION SYSTEM

212.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-35 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 214 RPIS

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-97
C. NMPII Surveillance Test Procedures
D. NMPII Licensed Operator Text - RMC
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Rod Position Indication System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-31

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
214.1	Discuss all Technical Specification requirements associated with operability of RPIS	P

_____
Student's Name

SYSTEM 214 ROD POSITION INDICATION SYSTEM

214.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-31 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 215 NUCLEAR INSTRUMENTATION SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-92
C. NMPII Licensed Operator Text - SRM, IRM, LPRM, APRM, TIP, RBM
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Nuclear Instrumentation System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-26
2. OLT-27
3. OLT-28
4. OLT-29
5. OLT-30
6. OLT-32

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
215.1	Monitor the Neutron Monitoring System for Technical Specification operability requirements	P
215.2	Evaluate the plant performance indicator (PI edit) for Technical Specification compliance	P

_____
Student's Name

SYSTEM 215 NUCLEAR INSTRUMENTATION SYSTEM

215.1 _____ P _____
Evaluator Date

215.2 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-26 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-27 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-28 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-29 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-30 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 217 REACTOR CORE ISOLATION COOLING SYSTEM (RCIC)

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-35
C. NMPII Licensed Operator Text - ICS
D. NMPII Surveillance Test Procedures
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Reactor Core Isolation Cooling System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-16

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

ITEM		ACTION CODE
217.1	Monitor RCIC for Technical Specification operability requirements	P

Student's Name

SYSTEM 217 REACTOR CORE ISOLATION COOLING SYSTEM

217.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-16 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 218 AUTOMATIC DEPRESSURIZATION SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-34
C. NMPII Licensed Operator Text - ADS
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Automatic Depressurization System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-13

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

	ITEM	ACTION CODE
218.1	Discuss Technical Specification operability requirements for ADS	D
218.2	Direct the operator actions associated with ADS	P

Student's Name

SYSTEM 218 AUTOMATIC DEPRESSURIZATION SYSTEM

218.1 _____ D _____
Evaluator Date

218.2 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-13 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 221 CONTAINMENT ENTRY AND EXIT

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures RP-9
C. NMPII Licensed Operator Text - Containment Entry and Exit
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Containment Entry and Exit System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-91

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

	ITEM	ACTION CODE
221.1	Discuss Containment Entry and Exit procedures	D+
221.2	Review Drywell Close out requirements	P/S+

+Indicates tasks required to be performed/simulated in the Plant.

Student's Name

SYSTEM 221 CONTAINMENT ENTRY AND EXIT

221.1 _____ D+ _____
Evaluator Date

221.2 _____ P/S+ _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-91 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 222 DRYWELL COOLING SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK. LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-60
C. NMPII Licensed Operator Text - DRS
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Drywell Cooling System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-20

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
222.1	Monitor the DRS System for compliance with Technical Specifications	P

_____
Student's Name

SYSTEM 222 DRYWELL COOLING SYSTEM

222.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-20 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 223 CONTAINMENT SYSTEMS

II. SYSTEM REFERENCES

A. NMPII FSK. LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-61A, 62,81, 82, 83, 85
C. NMPII Licensed Operator Text - PSC, ACC
D. NMPII Surveillance Test Procedures
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Containment System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-19
2. OLT-23

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
223.1	Discuss requirements for Primary and Secondary Containment Integrity	D
223.2	Monitor the containment atmosphere for proper concentrations of H_2 and O_2 per NMP Technical Specifications	P

106

Student's Name

SYSTEM 223 CONTAINMENT SYSTEMS

223.1 _____ D _____
Evaluator Date

223.2 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-19 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-23 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 234 FUEL HANDLING EQUIPMENT

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedure N2-OP-39
C. NMPII Technical Specifications
D. NMPII Licensed Operator Text - FHE

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Fuel Handling Equipment by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-2

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

	ITEM	ACTION CODE
234.1	Supervise Shutdown of the Refuel Bridge	P/S+
234.2	Direct required bridge and grapple tests/checks	P/S+
234.3	Direct control rod removal/replacement	P/S+
234.4	Direct performance of operability test for refueling bridge (N2-OP-39)	P/S+
234.5	Direct Channel/De-Channel fuel bundle operations with fuel prep machine	P/S+
234.6	Direct transfer of fuel to/from spent fuel pool	P/S+
234.7	Direct operation of the fuel handling bridge auxiliary crane	P/S+
234.8	Discuss the Technical Specifications associated with refueling	D+
234.9	Discuss the manning requirements associated with refueling operations	D+

+Indicates tasks required to be performed/simulated in the Plant.

_____
Student's Name

SYSTEM 234 FUEL HANDLING EQUIPMENT

234.1	_____ Evaluator	P/S+	_____ Date
234.2	_____ Evaluator	P/S+	_____ Date
234.3	_____ Evaluator	P/S+	_____ Date
234.4	_____ Evaluator	P/S+	_____ Date
234.5	_____ Evaluator	P/S+	_____ Date
234.6	_____ Evaluator	P/S+	_____ Date
234.7	_____ Evaluator	P/S+	_____ Date
234.8	_____ Evaluator	D+	_____ Date
234.9	_____ Evaluator	D+	_____ Date

Knowledge Complete: _____ Instructor Signature _____ Date
OLT-2

Task Complete: _____ Training Supervisor _____ Date

Task Qualified: _____ Department Supervisor _____ Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 261 STANDBY GAS TREATMENT SYSTEM

II. REFERENCES

A. NMPII Operating Procedure N2-OP-61B
B. NMPII Licensed Operator Text - GTS
C. NMPII FSK, LSK, ESK Drawings
D. NMPII Surveillance Test Procedures
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Standby Gas Treatment System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-24

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

ITEM		ACTION CODE
261.1	Read and discuss the Technical Specifications operability requirements of the Standby Gas Treatment System	D

Student's Name

SYSTEM 261 STANDBY GAS TREATMENT SYSTEM

261.1 Evaluator D Date

Knowledge Complete: Instructor Signature Date

Task Complete: Training Supervisor Date

Task Qualified: Department Supervisor Date

I. SYSTEM 262 AC ELECTRICAL DISTRIBUTION SYSTEMS

II. REFERENCES

A. NMPII Operating Procedure N2-OP-68, 70, 71, 72
B. NMPII Licensed Operator Text - NORM AC, EJS-ENS
C. NMPII FSK, LSK, ESK Drawings
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the AC Electrical Distribution System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-66
2. OLT-67

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
262.1	Monitor AC and Emergency AC Distribution Systems for Technical Specifications operability requirements	P

_____
Student's Name

SYSTEM 262 AC ELECTRICAL DISTRIBUTION SYSTEMS

262.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-66 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-67 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

I. SYSTEM 263 DC ELECTRICAL DISTRIBUTION SYSTEMS

II. REFERENCES

A. NMPII Operating Procedure N2-OP-73A, 73B, 74A, 74B
B. NMPII Licensed Operator Text - BYS/BWS
C. NMPII FSK, LSK, ESK Drawings
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the DC Electrical Distribution System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-68

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
263.1	Monitor the DC Distribution System for Technical Specification operability requirements	P

Student's Name

SYSTEM 263 DC ELECTRICAL DISTRIBUTION SYSTEMS

263.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-68 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 264 EMERGENCY DIESEL GENERATORS

II. REFERENCES

A. NMPII Operating Procedure N2-OP-100A, 100B
B. NMPII Licensed Operator Text - EGD, EGS
C. NMPII FSK, LSK, ESK Drawings
D. NMPII Technical Specifications
E. NMPII Surveillance Test Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Emergency Diesel Generator System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-17
2. OLT-18

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3.

C. Practical Requirements

ITEM		ACTION CODE
264.1	Discuss the Technical Specification operability requirements for the Emergency Diesel Generators	P

Student's Name

SYSTEM 264 EMERGENCY DIESEL GENERATORS

264.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-17 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-18 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 271 OFFGAS SYSTEM

II. REFERENCES

A. NMPII Operating Procedure N2-OP-42
B. NMPII Licensed Operator Text - OFG
C. NMPII FSK, LSK, ESK Drawings
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Offgas System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-52

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

ITEM		ACTION CODE
271.1	Discuss the radioactivity release rate limits imposed by Technical Specifications whenever the Off-Gas System is in operation	D

Student's Name

SYSTEM 271 OFFGAS SYSTEM

271.1 _____ D _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-52 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 286 FIRE PROTECTION SYSTEMS

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedure N2-OP-43, 44, 45, 46, 47
C. NMPII Licensed Operator Text - FPS
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Fire Protection System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-75

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

ITEM		ACTION CODE
286.1	Discuss the Technical Specification Operability requirements for the Fire Protection System System is in operation	D

_____
Student's Name

SYSTEM 286 FIRE PROTECTION SYSTEM

286.1 _____ D _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-75 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 288 PLANT VENTILATION SYSTEMS

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures - N2-OP-42, 43A, 54A, 54B, 55, 57, 58, 59A, 59B, 59C.1, 59C.2, 59C.3, 59C.4, 59C.5, 59C.6, 61B
C. NMPII Licensed Operator Text - HVR, HVT, CRE, GTS
D. NMPII Surveillance Procedures
E. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Plant Ventilation Systems by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-24
2. OLT-70
3. OLT-71
4. OLT-95

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

	ITEM	ACTION CODE
288.1	Discuss the Technical Specification operability requirements associated with the Secondary Containment Ventilation	P
288.2	Discuss the Technical Specification operability requirements associated with the Control Room Outdoor Air Special Filter Train	P
288.3	(Deleted)	3

_____
Student's Name

SYSTEM 288 PLANT VENTILATION SYSTEMS

288.1	_____ Evaluator	P	_____ Date
288.2	_____ Evaluator	P	_____ Date
288.3	DELETED* Evaluator	D	XXXXXX Date

* Task deleted repeat of task 261.1

Knowledge Complete: _____ _____
OLT-24 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-70 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-71 Instructor Signature Date

Knowledge Complete: _____ _____
OLT-95 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 291 SUMP AND DRAIN SYSTEMS

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures - N2-OP-67
C. NMPII Licensed Operator Text - Normal Building Drains
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Sump and Drain Systems by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-74

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures. 3

C. Practical Requirements

ITEM		ACTION CODE
291.1	Discuss the Technical Specification requirements for Primary Leak Rate Limits	P

Student's Name

SYSTEM 291 SUMP AND DRAIN SYSTEMS

291.1 _____ P _____
Evaluator Date

Knowledge Complete: _____ _____
OLT-74 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 296 REMOTE SHUTDOWN SYSTEM

II. SYSTEM REFERENCES

A. NMPII FSK, LSK, ESK Drawings
B. NMPII Operating Procedures N2-OP-78
C. NMPII Licensed Operator Text - RSS
D. NMPII Technical Specifications

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

The student will have demonstrated satisfactory knowledge of the Remote Shutdown System by attending the Operator Training lecture and satisfactorily completing a written examination on the following:

1. OLT-36

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidates are in accordance with approved NMPC procedures.

3

C. Practical Requirements

	ITEM	ACTION CODE	
296.1	(Deleted)		3
296.2	(Deleted)		3
296.3	Discuss the Technical Specification operability requirements for the Remote Shutdown System Instrumentation and Controls	P/S+	
296.4	Perform the actions of the SSS/ASSS during a Control Room Evacuation with the reactor S/D	P/S+	3
296.5	Perform the actions of the SSS/ASSS during a Control Room Evacuation with the reactor not S/D	P/S+	

+Indicates tasks required to be performed/simulated in the Plant.

Student's Name

SYSTEM 296 REMOTE SHUTDOWN SYSTEM

296.1	DELETED		XXXXXX	3
	Evaluator		Date	
296.2	DELETED		XXXXXX	
	Evaluator		Date	
296.3		P/S+		
	Evaluator		Date	
296.4		P/S+		
	Evaluator		Date	3
296.5		P/S+		
	Evaluator		Date	

Knowledge Complete: _____ _____
OLT-36 Instructor Signature Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

I. SYSTEM 341 NORMAL OPERATIONS

II. SYSTEM REFERENCES

Due to the broad spectrum of tasks identified under this system, it is not practical to list all references. The list of references for this system would include, but are not limited to, the following:

Operating Procedures for NMPII
Final Safety Analysis Report
Technical Specifications
Emergency Plan and procedures
Emergency Operating procedures
Radiation Protection Procedures
FSK, LSK, ESK Drawings
Administrative Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

There are no testable knowledge requirements for this section. Knowledge is gained and tested by satisfactory performance of designated tasks on shift or in the simulator.

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidate are in accordance with approved NMPC Procedures, and if equipment damage or personal injury do not occur as a result of these actions.

3

C. Practical Requirements

ITEM		ACTION CODE
341.1	Conduct shift and relief turnover	P+
341.2	Maintain required logs, records and status boards	P+
341.3	Authorize containment/drywell entry and exit	P/S+
341.4	Review operating logs for trends and out-of-specification conditions	P/S+
341.5	Approve jumper and lifted lead removal/placement	P/S+
341.6	Prepare an Occurrence Report	P/S+
341.7	Monitor plant chemistry to ensure conformance to specifications	P/S+
341.8	Evaluate plant systems performance and coordinate appropriate actions per Technical Specifications in the event an LCO is entered/not satisfied	P
341.9	Authorize termination/reset/bypass of engineered safety features functions	P/S
341.10	Authorize bypass of an RPS channel from a trip condition (prevent activation)	P
341.11	Conduct refuel shift supervisor operations including turnover	P/S+
341.12	Direct Plant Equipment Operators in the performance of their duties	P+
341.13	Direct the start-up of a system (i.e. pumps)	P
341.14	Direct a reactor start-up to point of adding heat	P
341.15	Monitor normal operation in the Control Room	P+
341.16	Monitor normal operation functions outside the Control Room	P+
341.17	Direct the removal of a system from service	P
341.18	Direct the removal of a recirc pump from service	P
341.19	Conduct a visual inspection of a system	P+

+Indicates tasks required to be performed/simulated in the Plant.

C. Practical Requirements (Cont'd)

ITEM		ACTION CODE
341.20	Authorize and direct de-energizing or energizing of electrical buses (including vital and nonvital, AC and DC isolation, etc.)	P/S
341.21	Evaluate plant conditions and coordinate appropriate actions per plant Technical Specifications in the event a LS3 is reached and/or exceeded	P/S
341.22	Direct shift personnel actions during major plant evolutions	P
341.23	Apply Technical Specifications directions for safety limits, LS3, LCO	P/S
341.24	Direct operating shift to carry out actions required by operations orders/memos	P/S+
341.25	Review the plant status and planned shift activities with plant management	P/S+
341.26	Evaluate potential industrial hazards for operations work assignments	P/S+
341.27	Conduct housekeeping inspections as plant management	P/S+
341.28	Interpret and ensure compliance w/plant Admin Procedures during normal and off-normal plant operations	P/S
341.29	Direct the manual control of Feedwater during a Reactor startup and/or shutdown	P
341.30	Direct Reactor Power changes (greater than 10%) using either Recirc Flow in manual or rods	P

+Indicates tasks required to be performed/simulated in the Plant.

Student's Name

SYSTEM 341 NORMAL OPERATIONS

341.1	Evaluator	P+	Date
341.2	Evaluator	P+	Date
341.3	Evaluator	P/S+	Date
341.4	Evaluator	P/S+	Date
341.5	Evaluator	P/S+	Date
341.6	Evaluator	P/S+	Date
341.7	Evaluator	P/S+	Date
341.8	Evaluator	P	Date
341.9	Evaluator	P/S	Date
341.10	Evaluator	P	Date
341.11	Evaluator	P/S+	Date
341.12	Evaluator	P+	Date
341.13	Evaluator	P	Date
341.14	Evaluator	P	Date
341.15	Evaluator	P+	Date
341.16	Evaluator	P+	Date
341.17	Evaluator	P	Date
341.18	Evaluator	P	Date
341.19	Evaluator	P+	Date
341.20	Evaluator	P/S	Date
341.21	Evaluator	P/S	Date
341.22	Evaluator	P	Date

Student's Name

SYSTEM 341 NORMAL OPERATIONS

341.23	Evaluator	P/S	Date
341.24	Evaluator	P/S+	Date
341.25	Evaluator	P/S+	Date
341.26	Evaluator	P/S+	Date
341.27	Evaluator	P/S+	Date
341.28	Evaluator	P/S	Date
341.29	Evaluator	P	Date
341.30	Evaluator	P	Date

Task Complete: _____ Training Supervisor _____ Date

Task Qualified: _____ Department Supervisor _____ Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 342 MAINTENANCE AND SURVEILLANCE

II. SYSTEM REFERENCES

Due to the broad spectrum of tasks identified under this system, it is not practical to list all references. The list of references for this system would include, but are not limited to, the following:

Operating Procedures for NMPII
Final Safety Analysis Report
Technical Specifications
Emergency Plan and procedures
Emergency Operating procedures
Radiation Protection Procedures
FSK, LSK, ESK Drawings
Administrative Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

There are no testable knowledge requirements for this section. Knowledge is gained and tested by satisfactory performance of designated tasks on shift or in the simulator.

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidate are in accordance with approved NMPC Procedures, and if equipment damage or personal injury do not occur as a result of these actions.

C. Practical Requirements

	ITEM	ACTION CODE
342.1	Determine priority of maintenance activities performed on shft	P/S+
342.2	Coordinate plant operation to support maintenance activities	P/S+
342.3	Approve requests to remove plant equipment from operation including markups	P/S+
342.4	Review and authorize tagging equipment removal and restoration requests for plant equipment	P+
342.5	Prepare maintenance work requests	P+
342.6	Review maintenance work requests, up to and including final sign-off	P+
342.7	Authorize performance of maintenance on shift (including preventative maintenance)	P/S+
342.8	Approve Radiation Work Permits	P/S+
342.9	Monitor the conduct of Operations Preventive Maintenance on shift	P/S+
342.10	Verify post-maintenance operability of safety-related equipment	P/S+
342.11	Approve a welding/burning/grinding permit	P/S+
342.12	Approve boundary breaching/penetration permits (e.g. barriers, ventilation, structural)	P/S+
342.13	Provide technical assistance in troubleshooting system malfunctions	P/S+
342.14	Prioritize, authorize and review performance of surveillance tests on shift	P+
342.15	Coordinate testing done by technicians (as opposed to operators)	P/S+
342.16	Verify Radwaste sample tank meets discharge permit requirements	P/S+

+Indicates tasks required to be performed/simulated in the Plant.

Student's Name

SYSTEM 342 MAINTENANCE AND SURVEILLANCE

342.1	Evaluator	P/S+	Date
342.2	Evaluator	P/S+	Date
342.3	Evaluator	P/S+	Date
342.4	Evaluator	P+	Date
342.5	Evaluator	P+	Date
342.6	Evaluator	P+	Date
342.7	Evaluator	P/S+	Date
342.8	Evaluator	P/S+	Date
342.9	Evaluator	P/S+	Date
342.10	Evaluator	P/S+	Date
342.11	Evaluator	P/S+	Date
342.12	Evaluator	P/S+	Date
342.13	Evaluator	P/S+	Date
342.14	Evaluator	P+	Date
342.15	Evaluator	P/S+	Date
342.16	Evaluator	P/S+	Date

Task Complete: _____ Training Supervisor _____ Date

Task Qualified: _____ Department Supervisor _____ Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 343 ADMINISTRATIVE

II. SYSTEM REFERENCES

Due to the broad spectrum of tasks identified under this system, it is not practical to list all references. The list of references for this system would include, but are not limited to, the following:

Operating Procedures for NMPII
Final Safety Analysis Report
Technical Specifications
Emergency Plan and procedures
Emergency Operating procedures
Radiation Protection Procedures
FSK, LSK, ESK Drawings
Administrative Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

There are no testable knowledge requirements for this section. Knowledge is gained and tested by satisfactory performance of designated tasks on shift or in the simulator.

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidate are in accordance with approved NMPC Procedures, and if equipment damage or personal injury do not occur as a result of these actions.

C. Practical Requirements

ITEM		ACTION CODE
343.1	Direct shift personnel assignments	P/S+
343.2	Authorize overtime for operations personnel	P/S+
343.3	Prepare a Personnel Accident Report	P/S+
343.4	Approve a temporary change to a procedure	P/S+
343.5	Write operational reports (i.e. Occurrence Event Reports, Plant Trip/Scram Reports)	P/S+
343.6	Prepare the Unit Morning Report	P/S+
343.7	Issue Administratively Controlled Keys	P+
343.8	Conduct periodic audit of temporary modifications	P/S+
343.9	Conduct periodic audit of tagging log	P/S+
343.10	Conduct shift meetings on industrial safety	P+
343.11	Review the Operator Aid Log	P+

Student's Name

SYSTEM 343 ADMINISTRATIVE

343.1	Evaluator	P/S+	Date
343.2	Evaluator	P/S+	Date
343.3	Evaluator	P/S+	Date
343.4	Evaluator	P/S+	Date
343.5	Evaluator	P/S+	Date
343.6	Evaluator	P/S+	Date
343.7	Evaluator	P+	Date
343.8	Evaluator	P/S+	Date
343.9	Evaluator	P/S+	Date
343.10	Evaluator	P+	Date
343.11	Evaluator	P+	Date

Task Complete: _____ _____
Training Supervisor Date

Task Qualified: _____ _____
Department Supervisor Date

NINE MILE POINT UNIT II

SRO/STA CANDIDATE

OJT MANUAL

I. SYSTEM 344 EMERGENCY OPERATIONS

II. SYSTEM REFERENCES

Due to the broad spectrum of tasks identified under this system, it is not practical to list all references. The list of references for this system would include, but are not limited to, the following:

Operating Procedures for NMPII
Final Safety Analysis Report
Technical Specifications
Emergency Plan and procedures
Emergency Operating procedures
Radiation Protection Procedures
FSK, LSK, ESK Drawings
Emergency operations Procedures

III. TASK OBJECTIVES

At the completion of this task, the student will be able to perform all evolutions associated with the system listed under Practical Requirements.

IV. TASK PERFORMANCE CRITERIA

A. Knowledge Requirements

There are no testable knowledge requirements for this section. Knowledge is gained and tested by satisfactory performance of designated tasks on shift or in the simulator.

B. Standards for Acceptable Task Performance

Each practical requirement will be considered satisfied if all actions taken by the candidate are in accordance with approved NMPC Procedures, and if equipment damage or personal injury do not occur as a result of these actions.

C. Practical Requirements

	ITEM	ACTION CODE
344.1	Analyze indications to determine that an off-normal plant event is in progress	P
344.2	Direct shift personnel actions to ensure plant safety during off-normal conditions	P
344.3	Ensure required notifications of on-site and off-site personnel for off-normal events are performed	P
344.4	Analyze indications to determine the cause of the off-normal event	P
344.5	Direct corrective actions to mitigate the consequences of the abnormal event	P
344.6	Direct actions to ensure that adequate Core Cooling is maintained during an abnormal event	P
344.7	Analyze indications to determine that an Emergency Plan Event is in progress	P
344.8	Direct shift personnel actions to ensure plant safety during emergency conditions	P
344.9	Provide technical data and information to plant management during the emergency event	P
344.10	Evaluate Plant Personnel Safety and Radiological Hazards associated with the Emergency Event and recommend evacuation as necessary	P/S+
344.11	Perform required actions during a fire	P
344.12	Perform actions required for an inadvertent criticality during fuel loading	P/S+
344.13	Determine if indications of fuel element damage are present	P
344.14	Direct Emergency Response as Site Emergency Director	P
344.15	Classify Emergency Events requiring Emergency Plan Implementation	P
344.16	Direct the actions of personnel as required by the actions stated in the applicable annunciator response procedures to restore system to proper operation	P

C. Practical Requirements

ITEM		ACTION CODE
344.17	Make protective action recommendations as necessary per EPP's	P/S
344.18	Perform actions required for a Station Evacuation	P/S
344.19	Perform actions required for Radiation Emergencies	P/S
344.20	Direct actions required for power oscillations experienced following a two Recirc Pump Trip Evolution	P
344.21	Direct RPV/Containment flooding as directed by the EOP's	P
344.22	Direct the use of Suppression Pool Cooling per the EOP's	P/S
344.23	Direct the use of Suppression Chamber Spray per the EOP's	P/S
344.24	Direct the use of Drywell Spray per the EOP's	P/S
344.25	Direct the actions required for a Large Break LOCA inside the Containment	P
344.26	Direct the actions required for a Large Break LOCA outside the Containment	P
344.27	Direct the actions required for a small break LOCA inside the Containment	P
344.28	Direct the actions required for small break LOCA outside the Containment	P
344.29	Direct the actions required for a Loss of Instrument Air	P
344.30	Direct the actions required for a Loss of Electrical Power	P
344.31	Direct the actions required for a Loss of Core Coolant Flow	P
344.32	Direct the actions required for a Loss of Condenser Vacuum	P
344.33	Direct the actions required for a Loss of Service Water	P
344.34	Direct the actions required for a Loss of Shutdown Cooling	P

C. Practical Requirements (Cont'd)

ITEM		ACTION CODE
344.35	Direct the actions required for a Loss of RBCLC	P
344.36	Direct the actions required for a Loss of Normal Feedwater or Normal Feedwater System Failure	P
344.37	Direct the actions required for a Loss of all Feedwater	P
344.38	Direct the actions required for a Loss of a Reactor Protective System Channel	P
344.39	Direct the actions required for a Stuck Control Rod/Control Rod Drop	P
344.40	Direct the actions required for an Inability to Drive Control Rods	P
344.41	Direct the actions required for a Liquid Poison Injection	P
344.42	Direct the actions required for a Turbine Generator Trip	P
344.43	Direct the actions required for an Unexplained Core Reactivity Change	P
344.44	Direct the actions required for a Malfunction in the Rx Pressure Control System (EHC)	P
344.45	Direct the actions required for a Reactor Scram	P
344.46	Direct the actions required for a Main Steam Line Break	P
344.47	Direct the actions required for a Loss of Flux Indication (APRM/LPRM Failure)	P
344.48	Direct the actions required for an Intrusion of Demineralizer Resin into the Primary System	P
344.49	Discuss Emergency and Non-Emergency NRC notification requirements	D
344.50	Notify the NRC via ENS of an ESF actuation	P/S
344.51	Review and approve a Notification Fact Sheet for an emergency classification	P

C. Practical Requirements (Cont'd)

	ITEM	ACTION CODE
344.52	Complete an SSS/SED Checklist for Emergency Classification	P
344.53	Perform a Walkdown of Components required to fill between MSIV's per EOP-MSL	P+
344.54	Direct actions as required per EOP-RQ	P
344.55	Direct actions as required per EOP-RL	P
344.56	Direct actions as required per EOP-RP	P
344.57	Direct actions as required per EOP-DWT	P
344.58	Direct actions as required per EOP-PCP	P
344.59	Direct actions as required per EOP-SPL	P
344.60	Direct actions as required per EOP-SPT	P
344.61	Direct actions as required per EOP-SCT	P
344.62	Direct actions as required per EOP-SCL	P
344.63	Direct actions as required per EOP-SCR	P
344.64	Direct actions as required per EOP-RR	P
344.65	Direct actions as required per EOP-MSL	P
344.66	Direct actions as required per EOP-C1 Level Restoration	P
344.67	Direct actions as required per EOP-C2 Emergency Depressurization	P
344.68	Direct actions as required per EOP-C3 Steam Cooling	P
344.69	Direct actions as required per EOP-C4 cooling without level	P
344.70	Direct actions as required per EOP-C5 alternate shutdown cooling	P
344.71	Direct actions as required per EOP-C6 RPV flooding	P
344.72	Direct actions as required per EOP-C7 Level/Power Control	P

C. Practical Requirements (Cont'd)

ITEM		ACTION CODE
344.73	Provide technical assistance to the S.S.S. during accidents or abnormal events including restoration process (STA ONLY)	P

Student's Name

SYSTEM 344 EMERGENCY OPERATIONS

344.1	Evaluator	P	Date
344.2	Evaluator	P	Date
344.3	Evaluator	P	Date
344.4	Evaluator	P	Date
344.5	Evaluator	P	Date
344.6	Evaluator	P	Date
344.7	Evaluator	P	Date
344.8	Evaluator	P	Date
344.9	Evaluator	P	Date
344.10	Evaluator	P/S+	Date
344.11	Evaluator	P	Date
344.12	Evaluator	P/S+	Date
344.13	Evaluator	P	Date
344.14	Evaluator	P	Date
344.15	Evaluator	P	Date
344.16	Evaluator	P	Date
344.17	Evaluator	P/S	Date
344.18	Evaluator	P/S	Date
344.19	Evaluator	P/S	Date
344.20	Evaluator	P	Date
344.21	Evaluator	P	Date
344.22	Evaluator	P/S	Date

Student's Name

SYSTEM 344 EMERGENCY OPERATIONS

344.23	Evaluator	P/S	Date
344.24	Evaluator	P/S	Date
344.25	Evaluator	P	Date
344.26	Evaluator	P	Date
344.27	Evaluator	P	Date
344.28	Evaluator	P	Date
344.29	Evaluator	P	Date
344.30	Evaluator	P	Date
344.31	Evaluator	P	Date
344.32	Evaluator	P	Date
344.33	Evaluator	P	Date
344.34	Evaluator	P	Date
344.35	Evaluator	P	Date
344.36	Evaluator	P	Date
344.37	Evaluator	P	Date
344.38	Evaluator	P	Date
344.39	Evaluator	P	Date
344.40	Evaluator	P	Date
344.41	Evaluator	P	Date
344.42	Evaluator	P	Date
344.43	Evaluator	P	Date
344.44	Evaluator	P	Date
344.45	Evaluator	P	Date

Student's Name

SYSTEM 344 EMERGENCY OPERATIONS

344.46	Evaluator	P	Date
344.47	Evaluator	P	Date
344.48	Evaluator	P	Date
344.49	Evaluator	D	Date
344.50	Evaluator	P/S	Date
344.51	Evaluator	P	Date
344.52	Evaluator	P	Date
344.53	Evaluator	P+	Date
344.54	Evaluator	P	Date
344.55	Evaluator	P	Date
344.56	Evaluator	P	Date
344.57	Evaluator	P	Date
344.58	Evaluator	P	Date
344.59	Evaluator	P	Date
344.60	Evaluator	P	Date
344.61	Evaluator	P	Date
344.62	Evaluator	P	Date
344.63	Evaluator	P	Date
344.64	Evaluator	P	Date
344.65	Evaluator	P	Date
344.66	Evaluator	P	Date
344.67	Evaluator	P	Date

Student's Name

SYSTEM 344 EMERGENCY OPERATIONS

344.68	Evaluator	P	Date
344.69	Evaluator	P	Date
344.70	Evaluator	P	Date
344.71	Evaluator	P	Date
344.72	Evaluator	P	Date
344.73	Evaluator	P	Date

Task Complete: Training Supervisor Date

Task Qualified: Department Supervisor Date