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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251

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 HARRIS,K.N. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 CASTRO,C.W. Region 2 (Post 820201)

SUBJECT: Forwards ref matl in preparation for operator license exams
 scheduled for wk of 901029,per NRC 900628 request.

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AUG 24 1990

L-90-310

Mr. Charles W. Casto, Chief
Operator Licensing Section 2, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, N. W., Suite 2900
Atlanta, GA 30323

Dear Mr. Casto:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Operator License Examinations
Scheduled for Week of October 29, 1990

This letter is notification of the Florida Power & Light Company (FPL) shipment of reference material requested by NRC letter dated June 28, 1990, to the examiner and address listed below:

Attn: Mr. J. Moorman
U. S. Nuclear Regulatory, Commission, Region II
101 Marietta Street, N. W., Suite 2900
Atlanta, Georgia 30323

No material for the fundamentals examination was included per a discussion with Mr. J. Moorman (NRC) on August 14, 1990.

The reference material was shipped, by Federal Express to NRC Region II, on August 22, 1990. An index of the reference material is attached for your information.

The examiners are requested to retain the reference material so it can be used during the license examination scheduled for January 1991. FPL will update the material prior to the January examination.

Should you require any additional information, please contact Mr. R. W. Lindsey at (305) 246-6649.

Very truly yours,

K. N. Harris
Plant Vice President
Turkey Point Plant Nuclear

00264

KNH:RWL:jk
PTN-TRNG-90-307

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Document Control Desk, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

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BOOK 1

ADMINISTRATIVE PROCEDURES

NEW STYLE PROCEDURES

0-ADM-031	06/05/90	Independent Verification
0-ADM-200	02/09/90	Conduct of Operations
0-ADM-201	11/24/89	Upgrade Operations Procedure Usage
0-ADM-202	01/11/90	Shift Relief and Turnover
0-ADM-203	03/27/90	Shift Operating Practices
0-ADM-204	09/06/90	Operations Narrative Logbooks
0-ADM-207	09/30/88	Operations Instructions in the Event of a Situation Not Addressed by Procedure
0-ADM-211	09/12/90	Emergency and Off Normal Procedure Use
0-ADM-503	05/01/90	Control and Use of Temporary System Alteration
0-ADM-701	06/15/90	Plant Work Order Preparation

OLD STYLE PROCEDURES

AP-0103.4	03/29/90	In Plant Equipment Clearance Orders
AP-0103.12	03/31/89	Notification of Significant Events to NRC
AP-0103.6	03/15/90	Control of Operator Aids and Temporary Information Tags
AP-0109.3	05/17/90	On The Spot Changes to Procedures
AP-0109.6	08/04/87	Temporary Procedures

BOOK 2

UPGRADE UNIT 3 GENERAL OPERATING PROCEDURES

3-GOP-103	06/27/90	Power Operation to Hot Standby
3-GOP-301	07/26/90	Hot Standby to Power Operation
3-GOP-305	06/19/90	Hot Standby to Cold Shutdown
3-GOP-503	06/15/90	Cold Shutdown to Hot Standby

BOOK 3

OPERATING PROCEDURES

NEW STYLE PROCEDURES

0-OP-003.1	01/19/90	125 V Vital DC System
0-OP-003.2	06/14/89	125 V Auxiliary DC System
0-OP-003.3	03/30/90	120 V Vital Instrument AC System
0-OP-003.4	04/26/89	Auxiliary 120 V AC System
3-OP-005	06/07/90	4160 Volt Buses A and B
3-OP-005.1	05/22/89	4160 Volt Bus C
3-OP-006	06/07/90	480 Volt Switchgear System
3-OP-007	07/05/90	480 Volt Motor Control Centers
3-OP-008	01/05/90	Turbine Plant Cooling Water
3-OP-013	07/26/90	Instrument Air System
3-OP-019	07/12/90	Intake Cooling Water System
0-OP-023	07/20/90	Emergency Diesel Generator
0-OP-025	04/18/90	Control Room Ventilation System



BOOK 4

OP'S (CONT.)

3-OP-030	07/15/90	Component Cooling Water System
3-OP-038.23	03/27/90	Fuel Transfer System - Normal Operation
3-OP-041.1	04/25/90	Reactor Coolant Pump
3-OP-041.2	04/25/90	Pressurizer Operation
3-OP-041.3	10/31/89	Pressurizer Relief Tank
3-OP-041.4	05/22/90	Overpressure Mitigating System
3-OP-041.7	05/17/90	Draining the Reactor Coolant System
3-OP-041.8	05/01/90	Filling and Venting the Reactor Coolant System
3-OP-041.9	05/08/90	Reduced Inventory Operations
0-OP-046	02/26/90	CVCS - Boron Concentration Control
3-OP-047	04/25/90	CVCS - Charging and Letdown
0-OP-048	04/12/89	Heat Tracing System
3-OP-050	06/05/90	Residual Heat Removal System
0-OP-051.2	07/18/87	Post Accident Containment Vent System
0-OP-053	04/18/89	Containment Purge System
3-OP-055	11/24/89	Emergency Containment Cooling and Filtering System
3-OP-057	07/05/90	Containment Normal Ventilation and Cooling System
3-OP-061.3	12/02/88	Reactor Coolant Drain Tank
3-OP-062	04/25/90	Safety Injection
3-OP-064	09/25/89	Safety Injection Accumulators
3-OP-067	04/17/90	Process Radiation Monitoring System

BOOK 5

OP'S (CONT.)

3-OP-068	02/02/89	Containment Spray System
3-OP-071	05/03/90	Steam Generator Blowdown Recovery System
3-OP-072	04/18/90	Main Steam System
3-OP-073	06/22/89	Condensate System
0-OP-074.1	05/12/89	Standby S/G Feedwater System
3-OP-075	04/18/90	Auxiliary Feedwater System
3-OP-087	03/16/90	Turbine Lube Oil System
3-OP-089	06/27/90	Main Turbine
3-OP-094	01/19/90	Containment Post Accident Monitoring Systems

OLD STYLE PROCEDURES

OP-204.2	05/29/90	Periodic Tests, Checks, and Operating Evolutions
OP-5163.2	03/30/90	Waste Disposal System - Controlled Liquid Release to the Circulating Water
OP-5523.1	05/03/90	Waste Disposal System - Gas Decay Tank, Controlled Release to Atmosphere

BOOK 6

OFF-NORMAL OPERATING PROCEDURES

NEW STYLE PROCEDURE ONOPS

3-ONOP-003.4	04/17/90	Loss of DC Bus 3D01 (3A)
3-ONOP-003.5	04/17/90	Loss of DC Bus 4D23 (3B) Loss of DC Bus 3D01 (4D01)
3-ONOP-003.6	08/10/89	Loss of 120 V Vital Instrument Panel 3P06
3-ONOP-003.7	03/29/90	Loss of 120 V Vital Instrument Panel 3P07
3-ONOP-003.8	03/30/90	Loss of 120 V Vital Instrument Panel 3P08
3-ONOP-003.9	12/19/90	Loss of 120 V Vital Instrument Panel 3P09
3-ONOP-004	05/31/90	Loss of Offsite Power
3-ONOP-004.1	01/19/90	Restoration of Electrical Systems Following the Recovery of Offsite Power
3-ONOP-005.4	01/22/88	4KV Bus 3A or 3B Ground
0-ONOP-013	04/18/90	Loss of Instrument Air
3-ONOP-014	12/12/89	Main Condenser Loss of Vacuum
0-ONOP-016.2	10/13/89	Response to Spurious Actuation of a Fire/Isolation Damper
0-ONOP-016.7	08/10/89	Screen Wash Emergency Makeup to the Fire Protection System
0-ONOP-016.8	06/19/90	Response to a Fire/Smoke Detection System Alarm
3-ONOP-016.9	06/14/89	Response to a Reported Fire in the Charging Pump Room, MCC B Room, Cable Spreading Room or Control Room
0-ONOP-016.10	04/17/90	Pre-Fire Plan Guidelines and Safe Shutdown Manual Actions
0-ONOP-023.2	04/18/90	Emergency Diesel Generator
0-ONOP-025.2	10/26/89	Loss of Control Room Ventilation System (CRVS) Air Conditioning
0-ONOP-025.3	06/07/90	DC Equipment and Inverter Rooms Supplemental Cooling
3-ONOP-028	08/08/89	Reactor Control System Malfunction
3-ONOP-028.1	03/29/90	RCC Misalignment
3-ONOP-028.2	04/24/89	RCC Position Indication Malfunction
3-ONOP-028.3	10/26/88	Dropped RCC
3-ONOP-030	06/06/90	Loss of Component Cooling Water
3-ONOP-033.1	01/19/90	Spent Fuel Pit (SFP) Cooling System Malfunction
3-ONOP-033.2	03/24/89	Refueling Cavity Seal Failure
3-ONOP-033.3	08/10/89	Accidents Involving New or Spent Fuel
3-ONOP-038.1	09/15/87	Fuel Transfer System Manual/Emergency Operation
3-ONOP-041.3	07/27/89	Excessive Reactor Coolant System Leakage
3-ONOP-041.4	06/29/89	Excessive Reactor Coolant System Activity
3-ONOP-041.5	08/10/89	Pressurizer Pressure Control Malfunction

3-ONOP-041.6	01/30/90	Pressurizer Level Control Malfunction
3-ONOP-046.1	07/06/89	Emergency Boration
0-ONOP-046.3	02/05/90	Loss of Boration Flowpath(s)
0-ONOP-047.1	12/21/89	Loss of Charging Flow in Modes 1 Through 3
0-ONOP-048	04/12/89	Off-Normal Critical Heat Tracing System Temperature
3-ONOP-049	05/20/88	Re-energizing Safeguard Racks After Loss of Single Power Supply
3-ONOP-050	04/25/90	Loss of RHR
3-ONOP-053	05/31/89	Loss of Containment Integrity

BOOK 7

ONOP'S (CONT.)

3-ONOP-059.4	06/30/89	Excessive Axial Flux Difference
3-ONOP-059.5	05/29/90	Source Range Nuclear Instrumentation Malfunction
3-ONOP-059.6	05/29/90	Backup NIS (Gamma Metrics) Malfunction
3-ONOP-059.7	01/09/89	Intermediate Range Nuclear Instrumentation Malfunction
3-ONOP-059.8	07/05/90	Power Range Nuclear Instrumentation Malfunction
3-ONOP-067	05/16/89	Inadvertent Release of Radioactive Gas
0-ONOP-067.2	05/30/89	Inadvertent Release of Radioactive Liquid
0-ONOP-071	07/06/89	Steam Generator Tube Leak
0-ONOP-074.1	07/05/90	Standby Steam Generator Feedwater System Operation With Loss of Offsite Power and Loss of Auxiliary Feedwater
3-ONOP-089	07/15/90	Turbine Runback
3-ONOP-094	12/07/89	Alternative Methods for Containment Post Accident Monitoring
3-ONOP-094.1	01/18/90	Post-Accident Hydrogen Monitor Startup
0-ONOP-094.2	01/17/89	Post Accident Monitoring and Post Accident Sampling Heat Trace Malfunction
3-ONOP-099.1	11/09/89	Response to a Metal Impact Monitor Alarm
3-ONOP-100	10/27/89	Fast Load Reduction
0-ONOP-105	04/19/90	Control Room Evacuation

OLD STYLE PROCEDURE ONOPS

ONOP-0208.14	05/12/89	Deviation or Failure of Reactor Protection and Safety Related Hagan Instrumentation Channels
ONOP-1108.1	06/06/90	Reactor Coolant Pump Off-Normal Conditions
ONOP-1208.1	05/03/90	Pressurizer Power Operated Relief System (Reliefs and MOV's) - Malfunction
ONOP-1568.1	04/06/90	Secondary Chemistry - Operator Actions in the Event of Deviation from Limits
ONOP-2608.2	05/26/88	CVCS - Malfunction of Boron Concentration Control System
ONOP-3108.2	10/10/89	High Activity in Component Cooling Water
ONOP-3208.1	06/28/90	Malfunction of Residual Heat Removal System
ONOP-3308.1	04/17/90	Turbine Plant Cooling Water Malfunction
ONOP-3408.1	05/22/90	Intake Cooling Water Malfunction
ONOP-3408.2	01/24/89	Intake Cooling Water - Failure Due to Transport of Heavy Loads
ONOP-5168.5	10/03/89	Waste Holdup Tank - Pump Back System
ONOP-5508.2	02/21/90	WDS - Off Normal Operation, Gaseous Waste Disposal System
ONOP-7308.1	01/30/90	Malfunction of the Auxiliary Feedwater

ONOP-8608.1	02/13/90	Generator Radio Frequency Monitor (Unit 4 Only)
ONOP-9108.1	01/11/90	Main Transformer Malfunction
ONOP-9208.1	03/30/90	Auxiliary Transformer Malfunction
ONOP-9308.1	04/06/89	Startup Transformer Malfunction
ONOP-9308.2	01/30/90	"C" Bus Transformer Malfunction
ONOP-9408.1	01/19/90	Loss of "A" or "B" 4KV Bus
ONOP-9408.2	01/18/90	Energizing 4KV Buses Using the Cranking Diesels Bus Tie Lines or Startup Transformer from the Opposite Unit
ONOP-9408.3	01/18/90	Loss of Voltage to "C" 4160 Volt Bus
ONOP-9608.1	06/28/90	125 V DC System - Location of Grounds
ONOP-9608.2	08/17/88	Auxiliary 125 V DC System - Location of Grounds
ONOP-10308.1	12/19/89	Control Building Heating, Ventilation and Air Conditioning System (HVAC)
ONOP-11108.1	02/21/90	Process Radiation Monitor - Off Normal Condition Operation
ONOP-11208.1	03/16/90	Area Radiation Monitoring System (ARMS) Off Normal Operation
ONOP-12308.2	10/02/89	Power Range Nuclear Instrumentation Verification of Upper, Lower, and Channel Deviation Alarms
ONOP-15608.2	03/16/90	Instrument Air Dryer Malfunction
ONOP-16708.1	01/05/90	Spent Fuel Cask Emergency Cooling



11-11-11

ANNUNCIATOR PROCEDURES

ONOP-0208.3	06/05/90	Annunciator List - Panel A Reactor Coolant
ONOP-0208.4	12/21/89	Annunciator List - Panel B Reactor Panel
ONOP-0208.5	02/09/90	Annunciator List - Panel C Steam Generator and Reactor Trips
ONOP-0208.6	08/22/89	Annunciator List - Panel D Condensate and Feedwater
ONOP-0208.7	01/30/90	Annunciator List - Panel E Turbine Generator
ONOP-0208.8	07/20/90	Annunciator List - Panel F Electrical
ONOP-0208.9	03/29/90	Annunciator List - Panel G Miscellaneous
ONOP-0208.10	03/30/90	Annunciator List - Panel H Safety Injection and Auxiliary
ONOP-0208.11	04/18/90	Annunciator List - Panel I Station Service
ONOP-0208.12	05/01/90	Annunciator List - Panel X Common
ONOP-0208.13	04/26/89	Annunciator List - Waste Boron Panels
ONOP-0208.15	06/14/89	Annunciator - General
ONOP-0208.16	08/22/89	Annunciator List - Panel J Auxiliary Electrical Power
ONOP-0208.18	03/24/89	Annunciator List - Condensate Polishing System Panel
ONOP-0208.19	08/22/84	Annunciator List - Process Control Panel C-46

BOOK 9

UNIT 3 EMERGENCY OPERATING PROCEDURES

3-EOP-E-0	04/19/90	Reactor Trip or Safety Injection
3-EOP-ES-0.0	01/16/90	Radiagnosis
3-EOP-ES-0.1	04/19/90	Reactor Trip Response
3-EOP-ES-0.2	04/19/90	Natural Circulation Cooldown
3-EOP-ES-0.3	04/19/90	Natural Circulation Cooldown With Steam Void In Vessel With RVLMS (QSPDS)
3-EOP-ES-0.4	04/19/90	Natural Circulation Cooldown With Steam Void In Vessel (Without RVLMS)
3-EOP-E-1	04/19/90	Loss of Reactor or Secondary Coolant
3-EOP-ES-1.1	04/19/90	SI Termination
3-EOP-ES-1.2	04/19/90	Post LOCA Cooldown and Depressurization
3-EOP-ES-1.3	04/19/90	Transfer to Cold Leg Recirculation
3-EOP-ES-1.4	01/16/90	Transfer to Hot Leg Recirculation
3-EOP-E-2	04/19/90	Faulted Steam Generator Isolation
3-EOP-E-3	04/19/90	Steam Generator Tube Rupture
3-EOP-ES-3.1	04/19/90	Post-SGTR Cooldown Using Backfill
3-EOP-ES-3.2	04/19/90	Post-SGTR Cooldown Using Blowdown
3-EOP-ES-3.3	04/19/90	Post-SGTR Cooldown Using Steam Dump
3-EOP-ECA-0.0	04/19/90	Loss of All AC Power
3-EOP-ECA-0.1	04/19/90	Loss of All AC Power Recovery Without SI Required
3-EOP-ECA-0.2	04/19/90	Loss of All AC Power Recovery With SI Required
3-EOP-ECA-1.1	04/19/90	Loss of Emergency Coolant Recirculation
3-EOP-ECA-1.2	04/19/90	LOCA Outside Containment
3-EOP-ECA-2.1	04/19/90	Uncontrolled Depressurization of All Steam Generators
3-EOP-ECA-3.1	04/19/90	SGTR With Loss of Reactor Coolant - Subcooled Recovery Required
3-EOP-ECA-3.2	04/19/90	SGTR With Loss of Reactor Coolant - Saturated Recovery Desired
3-EOP-ECA-3.3	04/19/90	SGTR Without Pressurizer Pressure Control
3-EOP-F-0	01/16/90	Critical Safety Function Status Trees
3-EOP-FR-S.1	04/19/90	Response to Nuclear Power Generation/ATWS
3-EOP-FR-S.2	01/16/90	Response to Loss of Core Shutdown
3-EOP-FR-C.1	04/19/90	Response to Inadequate Core Cooling
3-EOP-FR-C.2	04/19/90	Response to Degraded Core Cooling
3-EOP-FR-C.3	04/19/90	Response to Saturated Core Cooling
3-EOP-FR-H.1	04/19/90	Response to Loss of Secondary Heat Sink
3-EOP-FR-H.2	01/16/90	Response to Steam Generator Overpressure
3-EOP-FR-H.3	01/16/90	Response to Steam Generator High Level
3-EOP-FR-H.4	01/16/90	Response to Loss of Normal Steam Release Capabilities
3-EOP-FR-H.5	01/16/90	Response to Steam Generator Low Level
3-EOP-FR-P.1	04/19/90	Response to Imminent Pressurized Thermal Shock Condition
3-EOP-FR-P.2	01/16/90	Response to Anticipated Pressurized Thermal Shock Condition

3-EOP-FR-Z.1	05/11/90	Response to High Containment Pressure
3-EOP-FR-Z.2	11/01/89	Response to Containment Flooding
3-EOP-FR-Z.3	01/16/90	Response to High Containment Radiation Level
3-EOP-FR-I.1	04/19/90	Response to High Pressurizer Level
3-EOP-FR-I.2	04/19/90	Response to Low Pressurizer Level
3-EOP-FR-I.3	11/02/89	Response to Voids in Reactor Vessel

BOOK 10

UNIT 3 EMERGENCY OPERATING PROCEDURES
BASIS DOCUMENTS

3-BD-EOP-E-0	04/19/90	Reactor Trip or Safety Injection
3-BD-EOP-ES-0.0	01/16/90	Rediagnosis
3-BD-EOP-ES-0.1	01/16/90	Reactor Trip Response
3-BD-EOP-ES-0.2	04/19/90	Natural Circulation Cooldown
3-BD-EOP-ES-0.3	04/19/90	Natural Circulation Cooldown With Steam Void in Vessel With RVLMS (QSPDS)
3-BD-EOP-ES-0.4	04/19/90	Natural Circulation Cooldown With Steam Void in Vessel (Without RVLMS)
3-BD-EOP-E-1	01/16/90	Loss of Reactor or Secondary Coolant
3-BD-EOP-ES-1.1	01/16/90	SI Termination
3-BD-EOP-ES-1.2	01/16/90	Post LOCA Cooldown and Depressurization
3-BD-EOP-ES-1.3	01/16/90	Transfer to Cold Leg Recirculation
3-BD-EOP-ES-1.4	01/16/90	Transfer to Hot Leg Recirculation
3-BD-EOP-E-2	01/16/90	Faulted Steam Generator Isolation

BOOK 11

EOP BASIS DOCUMENTS (CONT.)

3-BD-EOP-E-3	10/16/90	Steam Generator Tube Rupture
3-BD-EOP-ES-3.1	04/19/90	Post-SGTR Cooldown Using Backfill
3-BD-EOP-ES-3.2	01/16/90	Post-SGTR Cooldown Using Blowdown
3-BD-EOP-ES-3.3	01/16/90	Post-SGTR Cooldown Using Steam Dump
3-BD-EOP-ECA-0.0	04/19/90	Loss of All AC Power
3-BD-EOP-ECA-0.1	01/16/90	Loss of All AC Power Recovery Without SI Required
3-BD-EOP-ECA-0.2	04/19/90	Loss of All AC Power Recovery With SI Required
3-BD-EOP-ECA-1.1	04/19/90	Loss of Emergency Coolant Recirculation
3-BD-EOP-ECA-1.2	01/16/90	LOCA Outside Containment
3-BD-EOP-ECA-2.1	04/19/90	Uncontrolled Depressurization of All Steam Generators
3-BD-EOP-ECA-3.1	01/16/90	SGTR With Loss of Reactor Coolant - Subcooled Recovery
3-BD-EOP-ECA-3.2	01/16/90	SGTR With Loss of Reactor Coolant - Saturated Recovery Desired



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BOOK 12

EOP BASIS DOCUMENTS (CONT.)

3-BD-EOP-ECA-3.3	04/19/90	SGTR Without Pressurizer Pressure Control
3-BD-EOP-F-0	01/16/90	Critical Safety Function Status Trees
3-BD-EOP-FR-S.1	01/16/90	Response to Nuclear Power Generation/ATWS
3-BD-EOP-FR-S.2	01/16/90	Response to Loss of Core Shutdown
3-BD-EOP-FR-C.1	01/16/90	Response to Inadequate Core Cooling
3-BD-EOP-FR-C.2	01/16/90	Response to Degraded Core Cooling
3-BD-EOP-FR-C.3	01/16/90	Response to Saturated Core Cooling
3-BD-EOP-FR-H.1	04/19/90	Response to Loss of Secondary Heat Sink
3-BD-EOP-FR-H.2	01/16/90	Response to Steam Generator Overpressure
3-BD-EOP-FR-H.3	01/16/90	Response to Steam Generator High Level
3-BD-EOP-FR-H.4	01/16/90	Response to Loss of Normal Steam Release Capabilities
3-BD-EOP-FR-H.5	01/16/90	Response to Steam Generator Low Level
3-BD-EOP-FR-P.1	04/19/90	Response to Imminent Pressurized Thermal Shock Condition
3-BD-EOP-FR-P.2	01/16/90	Response to Anticipated Pressurized Thermal Shock Condition
3-BD-EOP-FR-Z.1	05/11/90	Response to High Containment Pressure
3-BD-EOP-FR-Z.2	01/16/90	Response to Containment Flooding
3-BD-EOP-FR-Z.3	01/16/90	Response to High Containment Radiation Level
3-BD-EOP-FR-I.1	04/19/90	Response to High Pressurizer Level
3-BD-EOP-FR-I.2	01/16/90	Response to Low Pressurizer Level
3-BD-EOP-FR-I.3	01/16/90	Response to Voids in Reactor Vessel

BOOK 13

EMERGENCY PLAN IMPLEMENTING PROCEDURES

EPIP-20101	02/02/90	Duties of Emergency Coordinator
EPIP-20102	09/27/88	Duties of an Individual Who Discovers an Emergency Condition
EPIP-20104	02/27/90	Duty Call Notification/Staff Augmentation
EPIP-20105	11/07/89	Emergency Response Facilities
EPIP-20106	11/07/89	Natural Emergencies
EPIP-20107	03/24/89	Fire/Explosion Emergencies
EPIP-20109	04/24/90	Criteria For, and Conduct of Local Evacuations
EPIP-20110	06/19/89	Criteria For, and Conduct of Owner Controlled Area Evacuation
EPIP-20111	11/07/89	Re-entry
EPIP-20112	04/17/89	Communications Network
EPIP-20125	04/24/90	On-site Emergency Organization
EPIP-20126	04/04/89	Off-site Dose Calculations

BOOK 14

FUEL HANDLING PROCEDURES

OP-16000.1	04/02/90	Limitations and Precautions for Handling Fuel Assemblies
OP-16200	12/03/88	Manipulator Crane - Operating Instructions

HEALTH PHYSICS PROCEDURE

0-ADM-600	07/12/90	Health Physics Manual
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SURVEILLANCE PROCEDURES

0-OSP-023.1	7/20/90	Diesel Generator Operability Test
3-OSP-041.1	5/17/90	Reactor Coolant Leak Rate Calculation
3-OSP-059.5	4/18/90	Power Range Nuclear Instrumentation Shift Checks and Daily Calibrations
3-OSP-59.6	1/23/90	High Flux at Shutdown
3-OSP-075.1	4/18/90	Auxiliary Feedwater Train 1 Operability Verification

SYSTEM DESCRIPTIONS

SD#	REV	DATE	TITLE
2	4	01/07/89	Reactor Vessel and Internals
3	3	04/19/90	Incore Instrumentation
4	5	04/19/90	Excore Nuclear Instrumentation
5	5	06/14/90	Full Length Rod Control
6	4	05/22/90	Rod Position Indication
7	5	04/26/90	Reactor Coolant System
8	3	11/17/89	Reactor Coolant Pumps
9	7	04/24/90	Pressurizer and Relief System
11	3	11/16/88	Steam Generator

BOOK 16

SYSTEM DESCRIPTIONS (CONT.)

SD#	REV	DATE	TITLE
13	6	05/31/90	Chemical & Volume Control System
21	6	05/15/90	Emergency Core Cooling System
25	5	06/20/89	Containment Spray
26	2	11/30/88	Containment Building
28	4	12/11/89	Containment Post Accident Monitoring and Post Accident Sampling System
29	6	11/08/89	Containment Ventilation and Heat Removal System
40	3	02/28/89	Component Cooling Water
41	3	01/16/90	Fuel Pool Cooling, Purification and Ventilation
44	5	06/07/90	Fuel Handling System
48	3	10/25/89	Primary Makeup and Demineralized Water System
63	4	01/15/90	Reactor Protection and Safeguards Actuation System
68	5	10/10/89	Radiation Monitoring and Protection
90	2	12/07/88	Electrical Heat Tracing
104	5	11/01/89	Main and Extraction Steam System

BOOK 17

SYSTEM DESCRIPTIONS (CONT.)

SD#	REV	DATE	TITLE
105	4	03/07/90	Steam Dump System
111	3	09/09/88	Feedwater Heater Vents and Drain System
112	5	06/14/90	Condensate and Feedwater System
117	12	07/11/90	Auxiliary Feedwater System
123	3	06/14/89	Condenser and Circulating Water System
127	2	10/10/88	Main Turbine Control
130	5	02/17/89	Turbine, Turbine Oil, and Gland Seal System
132	5	05/16/90	Turbine Plant Cooling Water System
137	5	10/16/89	Emergency Diesel Generator and Auxiliaries
139	3	10/26/89	Main Generator and Controls
140	3	03/19/90	Main Power Distribution
144	4	10/02/89	120 VAC & 125 VDC Distribution System

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BOOK 18

SYSTEM DESCRIPTIONS (CONT.)

SD#	REV	DATE	TITLE
153	4	02/28/89	Fire And Service Water
155	8	07/17/89	Plant Air Systems
160	2	02/17/89	Screenwash and Intake Structure
165	8	05/30/90	Intake Cooling Water System
166	5	05/04/90	Ventilation System and Air Conditioning
170	4	05/04/90	Emergency Load Sequencer/Bus Stripping
176	3	02/23/89	Fire Protection and Alarm System

SYSTEM DESCRIPTION
LESSON PACKAGES

SD#	DATE	LP Num.	TITLE
2	09/23/88	6900102	Reactor Vessel and Internals
3	11/20/89	6900103	Incore Instrumentation
4	06/25/90	6900104	Excore Nuclear Instrumentation
5	07/26/88	6900105	Full Length Rod Control
6	06/06/90	6900106	Rod Position Indication
7	04/18/90	6900107	Reactor Coolant System
8	11/16/89	6900108	Reactor Coolant Pumps
9	01/23/90	6900109	Pressurizer and Relief System
11	10/19/88	6900111	Steam Generator

BOOK 20

SD LESSON PACKAGES (CONT.)

SD#	DATE	LP Num.	TITLE
13	05/30/90	6900113	Chemical & Volume Control System
21	01/24/90	6900121	Emergency Core Cooling System
25	06/16/89	6900125	Containment Spray
26	02/09/90	6900126	Containment Building
28	07/03/90	6900128	Containment Post Accident Monitoring and Sampling System
29	06/08/89	6900129	Containment Ventilation and Heat Removal System
40	05/01/90	6900140	Component Cooling Water
41	01/16/90	6900141	Fuel Pool Cooling, Purification and Ventilation
44	05/15/90	6900144	Fuel Handling System
48	10/16/89	6900148	Primary Makeup and Demin Water
63	11/20/89	6900163	Reactor Protection and Safeguards Actuation System
68	09/25/89	6900168	Radiation Monitoring and Protection

BOOK 21

SD LESSON PACKAGES (CONT.)

SD#	DATE	LP Num.	TITLE
90	08/08/88	6900112	Electrical Heat Tracing
104	10/29/89	6900117	Main and Extraction Steam System
105	11/16/88	6900118	Steam Dump System
111	09/15/88	6900120	Feedwater Heater Vents and Drain
112	06/14/90	6900122	Condensate and Feedwater System
117	10/03/89	6900123	Auxiliary Feedwater System
123	05/26/89	6900131	Condenser and Circulating Water
127	06/16/88	6900132	Main Turbine Control
130	11/30/88	6900133	Turbine, Oil, and Gland Seal
132	04/17/90	6900134	Turbine Plant Cooling Water System
137	11/08/89	6900136	Emergency Diesel Generator and Auxiliaries
139	10/10/89	6900137	Main Generator and Controls
140	03/01/90	6900138	Main Power Distribution
144	03/14/89	6900139	120 VAC & 125 VDC Distribution
153	01/09/89	6900143	Fire And Service Water

BOOK 22.

SD LESSON PACKAGES (CONT.)

SD#	DATE	LP Num.	TITLE
155	05/11/90	6900145	Plant Air Systems
160	10/02/88	6900152	Screenwash and Intake Structure
165	07/11/90	6900154	Intake Cooling Water System
166	04/30/89	6900155	Ventilation and Air Conditioning
170	02/08/90	6900157	Emergency Load Sequencer/Bus Stripping
176	01/04/89	6900159	Fire Protection and Alarm System

SYSTEMS EXAM BANK QUESTIONS

SD#	LP Num.	TITLE
2	6900102	Reactor Vessel and Internals
3	6900103	Incore Instrumentation
4	6900104	Excore Nuclear Instrumentation
5	6900105	Full Length Rod Control
6	6900106	Rod Position Indication
7	6900107	Reactor Coolant System
8	6900108	Reactor Coolant Pumps
9	6900109	Pressurizer and Relief System
11	6900111	Steam Generator
13	6900113	Chemical & Volume Control System
21	6900121	Emergency Core Cooling System
25	6900125	Containment Spray
26	6900126	Containment Building
28	6900128	Containment Post Accident Monitoring and Sampling System
29	6900129	Containment Ventilation and Heat Removal System
40	6900140	Component Cooling Water
41	6900141	Fuel Pool Cooling, Purification and Ventilation
44	6900144	Fuel Handling System
48	6900148	Primary Makeup and Demin Water
63	6900163	Reactor Protection and Safeguards Actuation System

BOOK 24

SYSTEMS EXAM BANK (CONT.)

SD#	LP Num.	TITLE
68	6900168	Radiation Monitoring and Protection
90	6900112	Electrical Heat Tracing
104	6900117	Main and Extraction Steam System
105	6900118	Steam Dump System
111	6900120	Feedwater Heater Vents and Drain
112	6900122	Condensate and Feedwater System
117	6900123	Auxiliary Feedwater System
123	6900131	Condenser and Circulating Water
127	6900132	Main Turbine Control
130	6900133	Turbine, Oil, and Gland Seal
132	6900134	Turbine Plant Cooling Water System
137	6900136	Emergency Diesel Generator and Auxiliaries
139	6900137	Main Generator and Controls
140	6900138	Main Power Distribution
144	6900139	120 VAC & 125 VDC Distribution
153	6900143	Fire And Service Water
155	6900145	Plant Air Systems
160	6900152	Screenwash and Intake Structure
165	6900154	Intake Cooling Water System
166	6900155	Ventilation and Air Conditioning
170	6900157	Emergency Load Sequencer/Bus Stripping
176	6900159	Fire Protection and Alarm System

UNIT 3 EMERGENCY OPERATING PROCEDURES
LESSON PACKAGES

3-EOP-E-0	01/25/90	6900321	Reactor Trip or Safety Injection
3-EOP-ES-0.0	01/30/90	6900322	Radiagnosis
3-EOP-ES-0.1	07/27/90	6900323	Reactor Trip Response
3-EOP-ES-0.2	07/27/90	6900324	Natural Circulation Cooldown
3-EOP-ES-0.3	07/23/90	6900325	Natural Circulation Cooldown With Steam Void In Vessel With RVLMS (QSPDS)
3-EOP-ES-0.4	07/23/90	6900326	Natural Circulation Cooldown With Steam Void In Vessel (Without RVLMS)
3-EOP-E-1	02/05/90	6900327	Loss of Reactor or Secondary Coolant
3-EOP-ES-1.1	02/16/90	6900328	SI Termination
3-EOP-ES-1.2	07/14/90	6900329	Post LOCA Cooldown and Depressurization

BOOK 26

EOP LESSON PACKAGES (CONT.)

3-EOP-ES-1.3	02/15/90	6900330	Transfer to Cold Leg Recirculation
3-EOP-ES-1.4	02/16/90	6900331	Transfer to Hot Leg Recirculation
3-EOP-E-2	01/29/90	6900334	Faulted Steam Generator Isolation
3-EOP-E-3	03/28/90	6900339	Steam Generator Tube Rupture
3-EOP-ES-3.1	01/25/90	6900340	Post-SGTR Cooldown Using Backfill
3-EOP-ES-3.2	01/25/90	6900341	Post-SGTR Cooldown Using Blowdown
3-EOP-ES-3.3	01/30/90	6900342	Post-SGTR Cooldown Using Steam Dump
3-EOP-ECA-0.0	01/27/90	6900348	Loss of All AC Power
3-EOP-ECA-0.1	02/10/90	6900349	Loss of All AC Power Recovery Without SI Required
3-EOP-ECA-0.2	02/08/90	6900350	Loss of All AC Power Recovery With SI Required

BOOK 27

EOP LESSON PACKAGES (CONT.)

3-EOP-ECA-1.1	02/12/90	6900332	Loss of Emergency Coolant Recirculation
3-EOP-ECA-1.2	02/05/90	6900333	LOCA Outside Containment
3-EOP-ECA-2.1	03/28/90	6900335	Uncontrolled Depressurization of All Steam Generators
3-EOP-ECA-3.1	01/25/90	6900343	SGTR With Loss of Reactor Coolant - Subcooled Recovery Required
3-EOP-ECA-3.2	01/25/90	6900344	SGTR With Loss of Reactor Coolant - Saturated Recovery Desired
3-EOP-ECA-3.3	01/30/90	6900345	SGTR Without Pressurizer Pressure Control
3-EOP-F-0	02/03/90	6900353	Critical Safety Function Status Trees
3-FR-S.1,2	04/19/90	6900346	Response to Nuclear Generation/ATWS
3-FR-C.1-3	07/23/90	6900347	Response to Inadequate Core Cooling

BOOK 28

EOP LESSON PACKAGES (CONT.)

3-FR-H.1-5	04/19/90	6900337	Response to Loss of Secondary Heat Sink
3-FR-P.1,2	04/19/90	6900336	Response to Imminent Pressurized Thermal Shock Condition
3-FR-Z.1-3	05/11/90	6900338	Response to High Containment Challenges
3-FR-I.1-3	04/19/90	6900351	Response to RCS Integrity Challenges

BOOK 29

ADMINISTRATIVE PROCEDURE
LESSON PACKAGES

NEW STYLE PROCEDURE LESSON PACKAGES

ADM-200	06/04/90	6900025	Conduct of Operations
ADM-202	02/27/90	6900022	Shift Relief and Turnover
ADM-203	10/24/88	6900024	Shift Operating Practices
ADM-204	04/04/90	6900023	Operator's Narrative Logs
ADM-701	04/05/90	6900007	Plant Work Orders

OLD STYLE PROCEDURE LESSON PACKAGES

AP-103.4	04/06/90	6900008	In-Plant Equipment Clearance Orders
AP-103.8	02/08/88	6900013	Shutdown Rate Limits
AP-103.12	08/09/89	6900006	Notification of Significant Events
AP-109.3	06/11/90	6900010	On the Spot Changes

OFF-NORMAL OPERATING PROCEDURE
LESSON PACKAGES


NEW STYLE ONOPS LESSON PACKAGES

ONOP-004	04/16/90	6900255	Loss of Off-Site Power
ONOP-28.X	07/10/90	6900207	Rod Control System Malfunctions
ONOP-30	07/12/90	6900229	Loss of Component Cooling Water
ONOP-41.3	10/21/89	6900212	Excessive RCS Leakage
ONOP-41.4	08/17/89	6900228	Excessive RCS Activity
ONOP-41.5	08/17/89	6900204	Pressurizer Pressure Control Malfunction
ONOP-41.6	05/01/89	6900254	Pressurizer Level Control Malfunction
ONOP-46.1	11/21/88	6900232	Emergency Boration
ONOP-46.3	04/19/88	6900233	Loss of Boration Flowpaths
ONOP-47.1	02/20/90	6900234	Loss of Charging in Modes 1-3
ONOP-59.X	11/22/88	6900206	Nuclear instrumentation Malfunctions
ONOP-67&71	08/17/89	6900236	Steam Generator Tube Leak & Inadvertant Radioactive Gas Release
ONOP-89	10/08/88	6900248	Turbine Runback
ONOP-94	10/08/88	6900249	Alternate Means for Monitoring CPAMS
ONOP-100	10/10/89	6900239	Fast Load Reduction
ONOP-105	07/10/90	6900252	Control Room Evacuation

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OLD STYLE ONOPS LESSON PACKAGES

ONOP-208.14	07/28/88	6900243	Failure of Protection Instrumentation
ONOP-1208.1	11/08/89	6900241	PORV Malfunction
ONOP-2608.2	01/20/90	6900235	CVCS Boron Control System Malfunction
ONOP-3108.2	07/25/88	6900238	High Activity in Component Cooling Water
ONOP-3308.1	07/11/90	6900217	Turbine Plant Cooling Water Malfunction
ONOP-3408.1	05/01/90	6900215	Intake Cooling Water Malfunction
ONOP-3408.2	01/18/88	6900216	Intake Cooling Water / Failure of the System
ONOP-9408.X	04/28/90	6900244	Malfunction of the 4kv Systems including Cranking Diesels
ONOP-1108.1	07/12/90	6900205	Reactor Coolant Pump Malfunctions
ONOP-11108.1	08/12/88	6900242	Process Radiation Monitoring
ONOP-11208.1	07/25/246	6900246	Area Radiation Monitoring



ADDITION MATERIAL

- BOOK 30 Technical Specifications
- BOOK 31 Plant Curve Book
- BOOK 32 Setpoint Document / Special Instructions
- BOOK 33 JPM's Sequence Numbers 1 through 82
- BOOK 34 JPM's Sequence Numbers 83 through 153
- BOOK 35 Simulator Information
- BOOK 36 Simulator Senarios
- BOOK 37 Reactor Operator / Senior Reactor Operator Task Lists
- BOOK 38 Emergency Operating Procedure Exam Bank
- BOOK 39 Admin / ONOP / EPIP Exam Bank
- BOOK 40 Complete Procedure Index (Upgrade and Original
Plant Drawings / Logics & Control Diagrams