

(i) PLANT CHANGE/MODIFICATION

During this reporting period, the Plant Changes and Modifications (PC/Ms) listed below were completed.

<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
76-3	Installation of Oil Circuit Breaker on Startup Transformer Unit 4	4
76-06	Spent Fuel Pit Sliding Doors	3 & 4
76-19	Replace Reactor Coolant Pump Motor Upper Oil Pot Tubing	3 & 4
77-04	Modification of SAM Timing Relays	3 & 4
77-62	Installation of 3 Hydraulic Cherry Pickers	3
78-35	Installation of 3 Cherry Pickers	4
78-40B	Steam Generator Wet Lay-up	4
78-64	Nuclear Maintenance Building Fence	3 & 4
78-69	S/G and Spare Main Transformer Haul Route South of Unit 2	3 & 4
78-81A	Condensate Polishing System	3
78-81B	Condensate Polishing System	4
78-82A	Condensate Polishing System (Civil)	4
78-86B	Secondary System Wet Lay-up	4
78-100	Containment Polar Crane Walkways	4
78-102A	S/G Blowdown Recovery System (Civil)	4
79-11	Heat Tracing Circuit Change Out	3 & 4
79-31	Concrete Exp. Anchor and Base Plate Modification	3 & 4
79-42	Diesel Generator Regulation	3 & 4
79-53	Area Radiation Monitoring System (ARMS) Enhancement	4
79-87	Containment Ramp Modification and S/G Haul Route for S/G Repair	3

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PDR FOIA  
PEDRO84-832 PDR

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<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
79-106	Addition of PRZ Safety Valve Direct Position Indication	3
79-107	Addition of PRZ Safety Valve Direct Position Indication	4
79-122	Auxiliary Feed Pump ISI Pressure Gauge Installation	3 & 4
80-40	Steam Generator Storage Compound	3 & 4
80-49	CVCS Check Valve Replacement	4
80-55	Upgrade Auxiliary Feedwater Flow Control and Indication	3 & 4
80-56	Upgrade Auxiliary Feedwater System Flow Control	4
80-87	Replacement of Hagan Recorders	4
80-96	Emergency Containment Filter Modification	4
80-114	Generator Core Monitor	4
80-116	Replace F. W. Line Snubber	4
80-118	Improve Drainage in B-MCC & 4160V Switchgear Room	3 & 4
80-121	Condensate Storage Tank High Beam Structure Modification ER-1784	3
80-127	Steam Flow Transmitter Modification	4
80-137	Vital A/C Inverter-Filter Capacitor Modification	3
80-142	Delete Auto Start on Laundry Tank	3 & 4
80-150	Containment Air Sample System Modification	4
81-12	PRZ Relief Tank Drain Modification	4
81-18	SFP Demineralizer Shielding	3
81-19	SFP Demineralizer Shielding	4
81-21	Power Supply to Dry Storage Warehouse	3 & 4



<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
81-25	Dry Storage Warehouse	3 & 4
81-68 CPWO	MSIV Solenoid Valve Replacement	3 & 4
81-72 CPWO	Emergency Diesel Tie-in 4KV Bus St. G.E. Switch	3 & 4
81-74	Main Steam Line Snubber Modification	3
81-75	Main Steam Line Snubber Modification	4
81-78	HHSI Pipe Support Foundations	3
81-85 CPWO	Flux Mapping System Drive Cabinet Replacement	3 & 4
81-99	Charcoal Filter Thermocouple Replacement	4
81-101	Generator RTD Temperature Monitor System	4
81-102	Nuclear Maintenance Building Fire Protection	3 & 4
81-109	Containment Evacuation Alarm Modification	4
81-118	Cable Spreading Room HVAC for Control Room Modifications	3 & 4
81-121 CPWO	Instrument Manifold Assembly Replacement	3 & 4
81-122	Spare RCP Motor Lube Oil Collection System	3 & 4
81-126	Containment Sump Pump Indicator Lights	3
81-134	WHT Annunciator High Level	3 & 4
81-136	Lube Oil Betterment Tie-ins	4
81-142 CPWO	NBFD Relay Replacement	3 & 4
81-145	H2 and N2 Building Ramp Additions	3 & 4
81-148	Install Qualified Connector for Solenoid Valves and Instrument	4
81-151	Personnel Door Interlock Annunciator	4
81-168	ICCS - Mech. Modification to Rx Head and Internals	4
81-170	Removal of PZR Instrument Heater Cubicles and Relocation	4

<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
82-02	N <sub>2</sub> Back-up for Main Steam Dump to Atmos. Valves	4
82-03	Spent Resin Transfer Shielding Lines	3 & 4
82-34	Security Fence Modification Intake Structures	3 & 4
82-47	Modification to Containment Spray System (I.E. 79-14)	3
82-49	Containment Sump Pump Indicator Lights	4
82-57	Units 3 & 4 "A" Auxiliary Feedwater Pump	3 & 4
82-68	Gas Analyzer Vacuum Pump	3 & 4
82-89	Main Transformer Accessories 480V Supplied	4
82-96	Radwaste Building Crane Capacity Upgrade	3 & 4
82-107	New Drainfield for TSC and I & C Shop	3 & 4
82-108	Fire Pump P-39B Relocation	3 & 4
82-121	Rod Position Indication System Power Supply	3
82-122	Rod Position Indication System Power Supply	4
82-139	CRDM HVAC Duct	4
82-142	Replace Auxiliary Transformer	4
82-147	Plant Vent Stack Sample Nozzle	3 & 4
82-151	Modification to CCW System (O.C.)	4
82-155	Modification to CCW System (O.C.)	4
82-159	Appendix "R" Emergency Lighting	3 & 4
82-160	Removal of Light Pole No. 514	3 & 4
82-166	Modification to CVCS (O.C.)	4
82-178	S/G Loose Parts Monitor Installation	4
82-186	Fisher & Porter Transmitter Replacement	4
82-187 CPWO	Repair 3B ICW Basket Drain Pool Strainer	3

<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
82-188 CPWO	Laundry Room Power Supply Breaker 0877	3 & 4
82-190	Containment Purge Valve Modification	3
82-192	RCP Motor Overhaul and Lifting Trunnions	4
82-193	Modification to CCW System (O.C.)	4
82-194	Modification to CCW System (O.C.)	4
82-204	RCA Access Point Guardhouse	3 & 4
82-210	Containment Purge Valve Leak Test	4
82-211 CPWO	Replacement of Hagan Recorders	3
82-212 CPWO	Replacement of Hagan Recorders	4
82-213	Modification to S.I. and RHR System (I.C.)	4
82-216	Modification to CVCS System (I.C.)	4
82-218	Modification to Waste Disposal System (I.C.)	4
82-219	Reactor Cavity and Transfer Canal Liner Repair	4
82-240	Modification to CCW System (I.C.)	4
82-243	Modification to S.I. and RHR System (I.C.)	4
82-248	Spare Penetration Repairs	3
82-273	Moisture Separator Reheater Modification	4
82-280	3B Main Steam Check Valve	3
82-282	Modification to Main Steam System (O.C.)	4
82-288	Air Ejector Sping 4 Radiation Monitors	3
82-291 CPWO	Install Leak Tight Caps on Radioactive Drain in CCW	3
82-292 CPWO	Install Leak Tight Caps on Radioactive Drain in CCW	4
82-293 CPWO	H <sub>2</sub> Gas Piping to Turbine Generator	4
82-294 CPWO	Post Accident Sampling System	3 & 4

<u>PC/M NO.</u>	<u>PC/M TITLE DESCRIPTION</u>	<u>UNITS COMPLETED THIS PERIOD</u>
82-295	Emergency Diesel "B" Lock-out Relay	4
82-299 CPWO	Veeder Root Counter Installation	3
82-300 CPWO	Veeder Root Counter Installation	4
82-302	Removal of Containment Press Wide Range Instrumentation	4
82-305	Install Thermowell on LP Turbine Crossover Piping	4
82-310 CPWO	Modify Generator P.T. Circuits	4
82-313	Alt. Gas Supply to Flux Mapper Purge System	4
82-315	Manipulator Crane Modification	4
82-319 CPWO	Service and Demineralized Water to Intake Area	3 & 4
83-01	Temporary Replacement Station Battery 3B	3
83-02 CPWO	Modification of Pressure Sensing Lines to PCV 1050 - 1051	3 & 4
83-09 CPWO	Moisture Separator/Reheater Steam Inlet Valve Modification	3
83-18	ILRT Containment Penetration Flange Replacement	4
83-26 CPWO	Waste Gas Compressor Switch Modification	3 & 4
83-38	RCP Vibration Sensor Mounting Bracket Replacement	4
83-58 CPWO	Reactor Trip and Trip Bypass Breaker	3
83-59 CPWO	Reactor Trip and Trip Bypass Breaker	4
83-67 CPWO	Auxiliary Feed Water System Control Panel	3 & 4

PLANT CHANGE/MODIFICATION 76-3

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 06-30-82

SUMMARY DATE: 10-04-82

REVISION: 0

INSTALLATION OF OIL COOLED BREAKER FOR START-UP TRANSFORMER NO. 4

Summary:

This PC/M installed an oil cooled circuit breaker in the source side of Start-up Transformer No. 4 along with the associated disconnect switch. This PC/M was necessary to avoid tripping the generator bus breaker unnecessarily.

Safety Evaluation:

This PC/M is non-nuclear safety related and did not involve an unreviewed safety question. No margin of safety as described in the Tech Specs has been decreased. No possibilities of accidents were increased or created. The consequences of accidents as analyzed in the FSAR are not affected.

Affected Drawings:

See Attached Sheet

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

Switchyard Procedures

Affected Drawings:

5610-E-334A  
5610-E-336  
5610-E-2  
5610-E-23  
5610-E-21 Sh. 1  
A-54699-1  
C-58899  
A-71544  
A-54703-2  
5610-1E-21  
E-48295-3  
A-44807  
F-502830-4  
4675-E-188-G  
E-44803-8  
E-502826-3  
E-56910-1  
5610-E-20  
E-502843  
E-44800-6  
5610-E-327  
5610-E-27-3  
5610-E-337A  
E-503180-1  
5610-E-27-3-3  
5610-E-28 Sh. 17C  
5610-E-27-18-3  
5610-E-32  
E-48291-5  
E-502825-4  
5610-E-1  
5610-E-326  
F-505001-2  
E-56704-3  
C-501748-6  
C-501748-9  
C-501748-11 Sh. 85  
C-501748-12  
5610-E-543  
5610-E-550  
4675-E-324  
4675-E-325  
E-44806-8  
E-44806-4

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package



UNIT: 3 & 4IMPLEMENTED: 12-78SUMMARY DATE: 11-9-82REVISION: 0SPENT FUEL POOL SLIDING DOORSSUMMARY:

Modification consisted of replacing existing four piece concrete slab door on each spent fuel pit building with electrically operated "L" shaped sliding doors complete with all necessary equipment.

SAFETY EVALUATION:

PC/M is Nuclear Safety Related with no unreviewed safety question. The PC/M will not increase the possibility of an accident, or probability of equipment malfunctions; therefore no reduction will result in the margin of safety as defined in the bases for any Technical Specifications.

AFFECTED DRAWINGS:

See Attached Sheet (N.I.S.)

5177-64C1

5177-64-C2 FSK-11132-C-14, 5177-34-5K-C1

5177-64-C3 5177-064 E1 thru E4

NOTE: This section may be affected by the drawing verification/update phase of the Plant documentation update. A summary revision will be issued to document any changes.

AFFECTED PROCEDURES:

None

PLANT CHANGE/MODIFICATION 76-19

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 05-06-83

SUMMARY DATE: 05-23-83

REVISION: 1

## REPLACEMENT OF REACTOR COOLANT PUMP MOTORS' UPPER OIL POT TUBING

### Summary:

This PC/M replaced the 3/8" copper tubing in the Reactor Coolant Pumps motors' upper oil pot with 3/8" stainless steel tubing backed with oil resistant neoprene wedges between the tubing and clamps. This modification has been performed on all six RCPs in Units 3 and 4.

### Safety Evaluation:

The replacement of the original copper tubing with stainless steel tubing and addition of neoprene wedges will alleviate the wearing of the tubing at the tube clamps due to vibration. The stainless steel will expand less under the same conditions than the copper will and the addition of neoprene wedges will further reduce the possibility of vibration induced problems on the tubing. Therefore, the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety, previously evaluated in the FSAR, has not been increased, nor has the possibility of a different type of accident or malfunction been created.

### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 77-04

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 10-25-79

SUMMARY DATE: 03-09-83

REVISION: 0

### MODIFICATION OF SAM TIMING RELAYS

#### Summary:

This PC/M installed .05 microfarad, 600 volt capacitor across the 125 volt D.C. input of the SAM timing relays on the 4kv aux. bus incoming breakers. This complied with G.E. recommendation to modify the existing SAM static timing relays, to block transients on 125 volt D.C. supply to relay.

#### Safety Evaluation:

This PC/M was non-nuclear safety related, not involving any unreviewed safety question. This change did not decrease the margin of safety, nor create the possibility of any accident not considered in the FSAR section 14.1.12. This change does not involve any safety equipment previously evaluated in the FSAR.

#### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 77-62

PC/M CLASSIFICATION: NS

UNIT: 3

IMPLEMENTED: 04-15-81

SUMMARY DATE: 03-21-83

REVISION: 0

### INSTALLATION OF THREE HYDRAULIC CHERRY PICKER CRANES

#### Summary:

This PC/M installed three 30'-0" high temporary pedestal crane towers on the operating floor at the 58-foot elevation in Unit 3 containment. Each tower came in 10-foot sections. This PC/M provided support for the installation of additional temporary cranes to be used exclusively on the steam generator repair effort.

#### Safety Evaluation:

The installation of the three hydraulic cranes did not represent an unreviewed safety question. The consequence of accidents previously evaluated in the FSAR have not changed, nor was the possibility of malfunction increased. No margin of safety as defined in the basis for technical specifications is affected.

#### Affected Drawings:

5177-074-C-44  
5177-074-C-45  
5177-074-C-46  
5177-074-A-143

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

To be developed by FP&L.

PLANT CHANGE/MODIFICATION 78-35

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

07-05-83

REVISION:

1

INSTALLATION OF THREE (3) HYDRAULIC CHERRY PICKER TYPE CRANES

Summary:

This PC/M installs 3 hydraulic cranes at the 58' level in Unit 4 containment. These are temporary cranes to be used only during the Unit 4 SGRP, then dismantled.

Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION	<u>78-040B</u>	PC/M CLASSIFICATION:	<u>NS</u>
		UNIT:	<u>4</u>
		IMPLEMENTED:	<u>05-10-83</u>
		SUMMARY DATE:	<u>06-15-83</u>
		REVISION:	<u>1</u>

## STEAM GENERATOR WET LAYUP SYSTEM

### Summary:

The purpose of the Steam Generator Wet Layup System is to provide a homogeneous wet layup chemistry in the steam side of the steam generators to prevent the internals from corrosive attack during extended shutdowns. The system is designed to recirculate water through the secondary side of the steam generator to prevent stratification and provide means to add chemicals to prevent corrosion during extended shutdowns. A nitrogen connection is provided for maintaining a nitrogen blanket for the unfilled portion of the system.

### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

### Affected Drawings:

See Attachment  
Valve List  
Instrument Index  
Breaker List

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

OP 1506.1



ATTACHMENT NO. 5

LIST OF DRAWINGS/SPECIFICATIONS/MR's

following is a list of documents required to complete this PC/M. For the latest edition, revision or deletion of documents listed, see current Document Control Register.

<u>Spec/MR</u>	<u>Title</u>
-087-M-1	System Description - Steam Generator Wet Layup System
-087-M-300	Description of Operation - Steam Generator Wet Layup System
-087-M-2	P&I Diagram - Steam Generator Wet Layup System Unit No. 3 or 4
-M-1/78-39	P&I Diagram - Steam System Unit No. 3 or 4
-M-6/78-39	P&I Diagram - Turbine Building Cooling Water System Unit No. 3 or No. 4
-M-10/78-39	P&I Diagram - Fire, Primary Make-up, Containment Cooling Water and Chemical Injection Systems
M-2/78-39	P&I Diagram - Condensate and Feedwater Systems Unit No. 3 or 4
177-087-M-080	Material Requisition for Steam Generator Wet Layup Pumps
177-087-M101	Material Requisition for Chemical Feed Pots
177-087-M143C	Material Requisition for Pressure Relief Valves
177-087-J380	Material Requisition for Sample Coolers
177-087-J600B	Material Requisition for Pressure Control Valves
177-087-J302	Material Requisition for Miscellaneous Pneumatic Instruments
77-087-J315	Material Requisition for Local Pressure Gauges
77-087-J426	Material Requisition for Rotameters
77-087-P-161	Material Requisition for Insulation Outside Containment
77-087-P-427	Material Requisition for Steel Gate, Globe, and Check Valves - 2" and Smaller to ANSI B31.1
77-087-P-402	Material Requisition for ASME Section III Nuclear Class 2, Gate, Globe, and Check Valves 2" and Smaller for Steam Generator Wet Layup System (Q)

<u>Ref/Spec/Rev</u>	<u>Title</u>
5177-087-P-448	Material Requisition for Safety Related Gate, Globe and Check Valves - 2" and Smaller (Q)
7-P-300	Design Specification for ASME Section III, Nuclear Class 2 & 3 Piping Systems
7-P-302	Performance Specification for Field Fabrication & Installation of Piping to ASME Section III
7-P-303	Design Specification for ASME Section III Class 2 & 3, Pipe Supports and Anchors
7-P-305	Performance Specification for Field Fabrication and Installation of ASME Section III Class 2 & 3 Pipe Supports and Anchors
7-P-306	Technical Specification for ASME Section III, Materials and Hardware for Pipe Supports
7-M-51	Field Fabrication and Installation of Piping and Field Erection of Equipment, Appendix 10
7-M-52	Performance Specification for Field Fabrication and Installation of Safety-Related ANSI B31.1 Piping Systems
7-M-57	Field Fabrication of Pipe Supports, Appendix 10
7-M-58	Installation of Pipe Supports, Appendix 10
7-M-56/78-39	General Arrangement Steam Generator Wet Layup Chemical Feed Tanks & Pumps
7-087-M301	Preoperational Test Procedure for Steam Generator Wet Layup System
7-E-10/79-08	One Line Diagram Motor Control Centers 1A(4A), 1B(4B), 1C(4C)
7-E-346A/78-40	Connection Diagram MCC4A Turbine Area Section (2)
7-E-71/78-40	Electrical Underground Conduit and Grounding Area 17
7-E-45 78-398 78-408	Circuit and Raceway Schedule
7-087-E-01	Elementary Diagram - Steam Generator Wet Layup Pumps 4P90A, 4P90B, 4P90C Unit 4
7-087-E-05	Connection Diagram Steam Generator Wet Layup Pumps
7-177-087-E-18.2	Separately mounted starters

<u>Fig/Spec/MR</u>	<u>Title</u>
R 5177-078-E-857.1	600 V Copper Control Cable for Nuclear Power Plants
R 5177-078-E-858.1	600 V Copper Power Cable for Nuclear Power Plants
R 5177-087-E-043	Grounding Cable
R 5177-087-E-36	Conduit and Fittings
77-M-53	Technical Specification for the Control of Special Processes: Welding, Heat Treating and Non-Destructive Examination for Plant Modification

The following will be required to complete this PC/M:

Appendix 1  
Appendix 2  
Appendix 3  
Appendix 4  
Appendix 11  
Appendix 12  
Appendix 17  
Appendix 19  
Appendix 31  
Appendix 32  
Appendix 49  
Appendix 53

7-087-C-1	Steam Generator Wet Layup System - Units 3 & 4 Pumps and Chem. Feed Pot Foundation Pad Plan and Section
7-074-C-103	Performance Specification for Forming, Placing, Finishing, and Curing of Concrete
7-074-C-112	Performance Specification for Placing Reinforcing Steel
7-074-C-335	Technical Specification for Subcontract for Furnishing Concrete (Nuclear Power Plants)
7-074-C-351	Technical Specification for Purchase of Reinforcing Steel

PLANT CHANGE/MODIFICATION 78-64

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 03-15-83

SUMMARY DATE: 03-31-83

REVISION: 0

### NUCLEAR MAINTENANCE BUILDING FENCE MODIFICATION

#### Summary:

This PC/M relocated existing radiation control area fencing located in the area where the nuclear maintenance building was constructed. It provides adequate working room to place compacted fill on which the nuclear maintenance building was built, and allowed construction personnel with adequate change facilities, RCA entry points and HP facilities, during the steam generator repair projects.

#### Safety Evaluation:

This PC/M was non-nuclear safety related because it did not affect any safety related plant function; therefore, it poses no unreviewed safety question.

#### Affected Drawings:

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 78-69

PC/M CLASSIFICATION: NS

UNIT: 3&4

IMPLEMENTED: 08-19-82

SUMMARY DATE: 09-15-82

REVISION: 0

S/G AND SPARE MAIN TRANSFORMER HAUL ROUTE SOUTH OF UNIT NO. 2

Summary:

This PC/M covered all work required to transport the spare main transformer and the S/Gs over that portion of the haul route extending south from coordinates N4750 and E10385, opposite Unit No. 2 on the East Plant Road to their storage location south of Unit 4. Buried pipes, duct banks and underground structures have been analyzed for the heavy transportation loads and cribbing or fill was used as required.

Safety Evaluation:

This PC/M is nuclear safety related but did not involve an unreviewed safety question. No possibilities of accidents have been created or increased. No margin of safety as described in the FSAR has been decreased by this modification.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

UNIT: 3IMPLEMENTED: 10-26-82SUMMARY DATE: 11-09-82REVISION: 0CONDENSATE POLISHING SYSTEM (CIVIL)SUMMARY:

This PC/M provided foundation for all mechanical and electrical equipment furnished under PC/M 78-81B. It included footings, structural slab to support pre-engineered building under 78-81B. Condensate Polishing System Unit 3.

SAFETY EVALUATION:

This PC/M was Non-nuclear safety, with no unreviewed safety question posing no problem to any other existing system.

AFFECTED DRAWINGS:

See Attached Sheets

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

AFFECTED PROCEDURES:

None



PLANT CHANGE/MODIFICATION 78-81B

PC/M CLASSIFICATION: NNS

UNIT: 3

IMPLEMENTED: 12/28/82

SUMMARY DATE: 01-24-83

REVISION: 0

### CONDENSATE POLISHING DEMINERALIZER SYSTEM

#### Summary:

This modification provided a condensate polishing demineralizer system to purify the condensate by filtration and demineralization, thus, providing high quality condensate water to the Steam Generator.

#### Safety Evaluation:

This modification does not involve an unreviewed safety question nor does it increase the probability of an accident or of any malfunction in equipment. This PC/M was non-nuclear safety related and no technical specifications changes were affected.

#### Affected Drawings:

(See attached sheets)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

New Procedures to be developed by operations.

Attachment 14

List of Drawings, Specifications, and Material Requisitions

The following is a list of documents required to accomplish this installation. For the latest revision, addition or deletion of documents listed, see current Document Control Register.

<u>Drawing/Spec./MR</u>	<u>Title</u>
5177-088-M-1	System Description - Condensate Polishing Demineralizer System, Units 3 & 4
5177-088-M-2	System Flow Diagram - Condensate Polishing Demineralizer System
5177-088-M-3	P & I Diagram - Condensate Polishing Demineralizer System
5610-E-150/78-85B	Electrical Trap Conduit and Grounding El. 18'-0: Area 1
5610-M-2/78-81	P & I Diagram - Condensate and Feedwater Systems, Unit No. 3 or 4
5177-088-P-300	General Arrangement - Condensate Polishing Demineralizer System, Unit 3
5177-088-P-320	Piping Isometric - Condensate Polishing Demineralizer System, Unit 3
5177-088-P-421	Piping Isometric - Condensate Polishing Demineralizer System, Units 3 & 4
5177-088-7881B-H-320	Hanger Drawing - Condensate Polishing Demineralizer System, Unit 3
5177-088-7882B-H-421	Hanger Drawing - Condensate Polishing Demineralizer System, Units 3 & 4
M/R 5177-088-P-426	Steel Gate, Globe, and Check Valves 2 1/2 Inches and Larger for Condensate Polishing Demineralizer System
M/R 5177-088-P-427	2 Inches and Smaller Steel Gate, Globe, and Check Valves to ANSI B.31.1.0 for the Conden- sate Polishing and Demineralizer System
M/R 5177-088-P-429	ANSI B 31.1.0 Butterfly Valves for Condensate Polishing Demineralizer System
M/R 5177-088-P-73	Bronze Valves 2 Inches and Smaller

<u>Drawing/Spec./MR</u>	<u>Title</u>
5177-M-50	Technical Specification for Shop Fabrication of ANSI B 31.1.0 Piping for Modification of Florida Power and Light Company, Turkey Point Units 3 & 4
5177-M-51	Specification - Field Fabrication and Installation of Piping and Field Erection of Equipment for Modification.
5177-M-53	Technical Specification for the Control of Special Processes: Welding Heat-Treating and Non-Destructive Examination for Plant Modification, Appendices 1, 2, 7, 11, 12, 16, 17, 31, 32, & 49
5177-M-57	Specification - Field Fabrication of Pipe Supports
5177-M-58	Installation of Pipe Supports for Modification
5177-088-P-310	H.V.A.C. Condensate Polishing System Equipment Enclosure Units 3 & 4
M/R 5177-088-M-112	Condensate Polishing Demineralizer System
M/R 5177-088-M-621B	Package Air Conditioning Unit for Condensate Polishing Equipment Enclosure
5177-088-E-01	One Line Diagram - MCC's 3B43 and 4B43
5177-088-E-02	One Line Diagram - 480 Volt Load Centers 3E and 4B
5177-088-E-05	Elementary Diagrams - Condensate Polishing System
5177-088-E-06	4160 Volt Switchgear Elementary
5177-088-E-07	480 Volt Load Center Elementary
5177-088-E-09	Condensate Polishing Demineralizer System, Main Raceway & Grounding Layout Units 3 & 4
5177-088-E-10	Condensate Polishing Demineralizer System, Electrical Raceway & Grounding Unit 3
5177-088-E-11	Condensate Polishing Demineralizer System, Electrical Raceway & Grounding Units 3 & 4

<u>Drawing/Spec./Mr</u>	<u>Title</u>
5177-088-E-14	Steam Generator Protection Plan Lighting and Communication Unit 3
5177-088-E-16	Steam Generator Protection Lighting and Distribution Panel Schedule
5177-088-E-17	Electrical Raceways Sections & Details
5177-088-E-18	Condensate Polishing Demineralizer System, Duct Banks & Manholes Sections and Details
5177-088-E-19	Condensate Polishing Demineralizer System Profiles Electrical Duct Banks
5177-088-E-20	Connection Diagram - MCC 3B43
5177-088-E-31	Connection Diagram - Condensate Polishing System Panel 3C01
5177-088-E-32	Connection Diagram - Condensate Polishing System Miscellaneous Field Devices, Unit 3
M/R 5177-088-E-009.2	4160 Volt Metal-Clad Switchgear Extension
M/R 5177-088-E-017.1	Load Center Unit Substation
M/R 5177-088-E-018.1	Motor Control Centers
M/R 5177-088-E-034	Cable Tray
M/R 5177-088-E-036	Conduit and Fittings
M/R 5177-088-E-038	Pull Boxes and Terminal Boxes
M/R 5177-088-E-039	Dry-Type Transformers for General Application
M/R 5177-088-E-040	Lighting and Distribution Panels
M/R 5177-088-E-043	Grounding Cable
M/R 5177-088-E-044	Grounding Connectors and Accessories
M/R 5177-088-E-066	Miscellaneous Electrical Devices for Field Purchase
M/R 5177-088-E-862.1	600 Volt Shielded Instrumentation Cable
M/R 5177-078-E-857.1	600 Volt Copper Control Cable (Nuclear)

Drawing/Spec./MR

Title

M/R 5177-078-E-858.1	600 Volt Copper Power Cable (Nuclear)
5177-088-A-34	Condensate Polishing Equipment Enclosure Architectural Floor Plan, Elevations, Section & Details
M/R 5177-088-A-206.1	Condensate Polishing Equipment Enclosures
5177-E-45	Circuit and Raceway Schedule
M/R 5177-088-E-029.1	5 KV Lead Sheathed Power Cables

PLANT CHANGE/MODIFICATION <u>78-082A</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>06-03-83</u>
	SUMMARY DATE:	<u>07-05-83</u>
	REVISION:	<u>1</u>

#### CONDENSATE POLISHING SYSTEM UNIT 4 (CIVIL)

##### Summary:

The purpose of this PC/M was to provide foundations for all mechanical and electrical condensate polishing equipment furnished under PC/M 78-82B. The scope of work also included footings and structural slab to support pre-engineered building furnished under PC/M 78-82B.

##### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

##### Affected Drawings:

See Attachment

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

##### Affected Procedures:

None

ATTACHMENT 1

The following is a list of the documents required to accomplish this modification. For the latest revision, addition, or deletion of documents listed, see current document control register.

Drawing/Spec/MRTitle

Dwg. 5177-088-C-1	Condensate Polishing Demineralizer System - Unit 3 & 4, Condensate Polishing Equipment Enclosure, Foundation Plan
Dwg. 5177-088-C-2	Condensate Polishing Demineralizer System - Unit 3 & 4, Condensate Polishing Equipment Enclosure, Framing Plan @ EL. 17'-8"
Dwg. 5177-088-C-3	Condensate Polishing Demineralizer System - Unit 3 & 4, Condensate Polishing Equipment Enclosure, Equipment Foundation Plan
Dwg. 5177-088-C-4	Condensate Polishing Demineralizer System - Unit 3 & 4, Misc. Foundations - Foundation Plan
Dwg. 5177-088-C-5	Condensate Polishing Demineralizer System - Unit 3 & 4, Misc. Foundations Framing Plan @ EL. 17'-8"
Dwg. 5177-088-C-6	Condensate Polishing Demineralizer System - Unit 3 & 4, Misc. Foundations, Equipment Foundation Plan
Dwg. 5177-088-C-7	Condensate Polishing Demineralizer System - Unit 3 & 4, Foundation Plan for Pipe Supports & Cable Trays
Dwg. 5177-088-C-8	Condensate Polishing Demineralizer System - Unit 3 & 4, Spent Resin Handling System, Foundation Plan
Dwg. 5177-088-C-9	Condensate Polishing Demineralizer System - Unit 3 & 4, Spent Resin Handling System, Misc. Details & Sections
Dwg. 5177-088-C-10	Condensate Polishing Demineralizer System - Unit 3 & 4, Spent Resin Handling System, Misc. Details & Sections
Dwg. 5177-088-A-34	Condensate Polishing Equipment Enclosure, Architectural Plan, Elevations, Section, Details and Door Schedule



<u>Drawing/Spec/MR</u>	<u>Title</u>
Dwg. 5177-074-C-1	Partial Site Plan - Units 3 & 4
Dwg. 5177-074-C-16	Compactor Room - General Notes & Misc. Details
Spec. 5177-074-C-034.1	Technical Specification for Placement and Control of Compacted Fill
Spec. 5177-A-130	Technical Specification for Furnishing and Application of Field Painting
Spec. 5177-074-A-143	Technical Specification for Shop Priming with Inorganic Zinc Primer

PLANT CHANGE/MODIFICATION 73-86B

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

03-17-83

SUMMARY DATE:

06-15-83

REVISION:

1

## SECONDARY SYSTEM WET LAYUP SYSTEM

### Summary:

The purpose of the Secondary Wet Layup System is to recirculate water through the condenser, condensate system and feedwater system to prevent stratification and to provide oxygen control, thus minimizing corrosion during extended unit shutdown. The system consists of two closed loops which circulate the contents of the secondary system. The system is comprised of a pump for each loop and the associated controls, instrumentation, piping and valves to form a closed loop with the secondary system.

### Safety Evaluation:

This PC/M is non-nuclear safety related, with no probability or possibility of an accident, malfunction of equipment or safety margin increasing as previously evaluated. Therefore, it does not represent an unreviewed safety question.

### Affected Drawings:

See Attached List  
Valve Index  
Instrument Index  
Breaker List

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

OP 7001.1

ATTACHMENT 5

The following is a list of documents required to accomplish this installation. For the latest revision, addition, or deletion of documents listed, see current document control register.

<u>Drawing/Spec. No.</u>	<u>Title</u>
5177-086-M-1	Secondary System Wet Lay-up System, System Description
5177-086-M-2	Secondary System Wet Lay-up System, System Flow Diagram
5177-086-M-3	Secondary System Wet Lay-up System, P&ID
5177-086-M080	Secondary System Wet Lay-up Pumps, Material Requisition
5177-086-M101	Secondary System Wet Lay-up Chemical Feed Pots, Material Requisition
5610-M-1/78-85	Steam System, P&ID
5610-M-2/78-85	Condensate and Feedwater Systems, P&ID
5610-M-3/78-85	Vents and Drains, P&ID
5610-M-10/78-85	Fire, Primary Make-up, Containment Cooling Water & Chemical Injection Systems, P&ID
5177-086-M152C	Restricting Orifices for Secondary Wet Lay-up System
5177-086-J-434	Flow Elements
5177-086-J-517	Differential Pressure (Flow) Indicating Switches
5177-086-J-515	Local Pressure Gauges
5177-086-J-516	Pressure Switches
5177-086-J-610	Pressure Regulators
5610-M-56/78-85	General Arrangement Secondary System Wet Lay-up Units 3 & 4
5177-086-P-320	Piping Isometric, Secondary System Wet Lay-up Unit 3

<u>Drawing/Spec. No.</u>	<u>Title</u>
5177-086-H-320-001 thru <u>later</u>	Hanger Details for Isometric P-320
5177-089-P-321	Piping Isometric Secondary Wet Lay-up System Unit 3
5177-086-H-321-001 thru <u>later</u>	Hanger Details for Isometric P-321
5177-M-51, Appendix 9	Field Fabrication and Installation of Piping & Equipment
5177-M-57, Appendix 9	Field Fabrication of Pipe Supports
5177-M-58, Appendix 9	Installation of Piping Supports
5177-086-P-161	Insulation Outside of Containment
5177-086-P-426	Steel Gate, Globe and Check Valves 2 1/2" and Larger
5177-086-P-427	Steel Gate, Globe and Check Valves 2" and Smaller
5177-086-P-447	Critical Service Gate, Globe and Check Valves 2" and Smaller
5177-086-P-433	ANSI B31.1 Steel Ball Valves
5177-086-E02	Elementary Diagram Secondary System Wet Lay-up Pump (Loop 2) P-92
5177-086-E-04	Elementary Diagram Secondary System Wet Lay-up Pump (Loop 1) P-91
5177-086-E-11	Secondary System Wet Lay-up System Raceway and Grounding Condenser P1: Area Unit 4
5610-E-163/78-75	Electrical Underground Tray, Conduit and Grounding, Area 4
5177-086-E036	Conduit and Fittings
5177-086-E038	Pull Boxes & Terminal Boxes
5177-086-E-043	Grounding Cable
5177-M-53	The Control of Special Processes: Welding, Heat Treatment, and Nondestructive Examination
5177-086-M-100	Secondary System Wet Lay-Up System - Described in

Drawing/Spec. No.

Title

5177-089-M004-3

Baffle Detail-Secondary System Wet Lay-Up Nozzle

5177-086-E-034

Cable Tray

5177-086-E-028.1

Local Control Stations

PLANT CHANGE/MODIFICATION 78-100

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

05-04-83

SUMMARY DATE:

05-23-83

REVISION:

1

## CONTAINMENT POLAR CRANE WALKWAYS

### Summary:

This modification installed a walkway platform inside containment to provide access to the polar crane for repairs and other maintenance needs.

### Safety Evaluation:

This PC/M is non-nuclear safety related because the walkways are not classified as safety related; although, they have been designed for seismic loads. This change did not affect any safety related structures, equipment or systems. It did not involve an unreviewed safety question nor did it change the operating plant as described in the FSAR.

### Affected Drawings:

5177-083-C-1  
5177-083-C-2

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 78-102A

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 03-28-83

SUMMARY DATE: 05-03-83

REVISION: 0

STEAM GENERATOR BLOWDOWN RECOVERY SYSTEM (CIVIL)

Summary:

This PC/M provided a foundation for the mechanical equipment required for Steam Generator Blowdown Recovery System. Equipment to be furnished under PC/M 78-102B.

Safety Evaluation:

This PC/M is non-nuclear safety related with no unreviewed safety question. This modification does not affect the structural integrity of any safety related structures.

Affected Drawings:

5177-096-C-1 (Rev. 5)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None



PLANT CHANGE/MODIFICATION 79-11

PC/M CLASSIFICATION: NS

UNIT: 3 & 4

IMPLEMENTED: Generic

SUMMARY DATE: 03-23-83

REVISION: 0

## HEAT TRACING CIRCUIT CHANGE OUT

### Summary:

This portion of the PC/M replaced the chromalox MI cable with chemelox type self-limiting heater cable on circuits (heat tracing) numbers 20, 29, 34 per NRC commitment. This is a partial report; subsequent reports will follow until the PC/M is completed.

### Safety Evaluation:

This PC/M is nuclear safety related with no unreviewed safety question. No probability of accident occurring nor probability of malfunction increasing. The PC/M will not decrease the safety margin as stated in the technical specifications. The probability of malfunction of equipment was decreased in respect to "no flow paths" as described in the technical specifications.

### Affected Drawings:

Bechtel FSK-M drawings  
(N.I.S.)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

OP 2500.1

OP 2504.1

PLANT CHANGE/MODIFICATION 79-31

PC/M CLASSIFICATION: NS

UNIT: 3 & 4

IMPLEMENTED: 12-28-82

SUMMARY DATE: 01-12-83

REVISION: 0

## CONCRETE EXPANSION ANCHORS AND BASE PLATE MODIFICATION

### Summary:

This modification consisted of work required to repair/modify concrete expansion anchors and associated base plates for existing safety related pipe supports to comply with NRC i.e. Bulletin Number 79-02. All work performed after inspection and testing program conducted by FP&L.

### Safety Evaluation:

The systems affected by this modification are those consistent with the requirements of NRC Regulatory Guide 1.29 and Turkey Point Plant FSAR and Technical Specifications. Since the modification will allow the affected systems to meet their original design criteria or these modifications did not involve any unreviewed safety question.

### Affected Drawings:

See attached  
Transmittal Letters.

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 79-42

PC/M CLASSIFICATION:

NS

UNIT:

3 & 4

IMPLEMENTED:

04-28-83

SUMMARY DATE:

05-05-83

REVISION:

1

## DIESEL GENERATOR REGULATOR

### Summary:

Ventilation holes were made in the wall of the rear compartment of the diesel generator regulator cabinet. This allows the transformers to operate at a lower temperature increasing their reliability. Also, the mounting brackets were revised to accept the General Electric replacements.

### Safety Evaluation:

The ventilation holes increased the reliability of the transformers and the mounting brackets securely attached the G.E. replacement transformers. The probability of occurrence of an accident or malfunction of equipment important to safety, previously evaluated in the FSAR, has not been increased. This modification does not pose any unreviewed safety question nor does it decrease the margin of safety.

### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 79-53

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

06-21-83

REVISION:

0

### AREA RADITION MONITORING SYSTEM (ARMS) ENHANCEMENT

#### Summary:

This modification replaced buzzer alarm unit (DS 900) with an electronic alarm unit (Mallory SC 110P). Purpose being buzzer could not be heard in high ambient noise areas and maintenance was very high due to ageing of contacts in unit. Also performed was the relocation of the red alarm light from the front of the remote alarm unit to the top of the enclosure (outside containment only).

#### Safety Evaluation:

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

#### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 79-87

PC/M CLASSIFICATION: NS  
UNIT: 3  
IMPLEMENTED: 08-17-81  
SUMMARY DATE: 04-28-83  
REVISION: 0

CONTAINMENT RAMP MODIFICATIONS AND STEAM GENERATOR  
HAUL ROUTE FOR STEAM GENERATOR REPAIR - UNIT 3

Summary:

This PC/M includes all work required, external to the Unit 3 containment, to transport the new steam generator lower assemblies from their temporary storage location south west of Unit 4 containment to the Unit 3 containment hatch and transporting the removed steam generator lower assemblies from the Unit 3 equipment hatch to the steam generator storage compound and provide a haul route for the movement of the steam generators.

Safety Evaluation:

Implementation of this PC/M is in accordance with the safety evaluations in the SGRR and will not result in any adverse impact on the ability to shutdown the operating unit; to maintain a safe shutdown configuration; or to cool stored spent fuel.

Modifications covered by this PC/M do not affect any blockwalls nor do they change the results of ECCS heat sink analysis per 10 CFR 50, Appendix K.

Affected Drawings:

5177-074-C-64  
5177-074-C-5

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 79-106

PC/M CLASSIFICATION: NNS  
UNIT: 3  
IMPLEMENTED: 11-09-79  
SUMMARY DATE: 03-21-83  
REVISION: 0

ADDITION OF PRESSURIZER SAFETY VALVE DIRECT POSITION INDICATION

Summary:

This PC/M provided for a positive position indication on the pressurizer safety valves and power operated relief valves to meet NUREG 0578 (TMI Lessons Learned Item 2.1.3.A) requirements. The safety valve direct position indication system consists of acoustic accelerometers mounted on the safety valve discharge.

Safety Evaluation:

This change does not involve an unreviewed safety question, nor does it increase the consequence of an accident occurring or increase the probability of malfunction of equipment. Thus the margin of safety will not decrease.

Affected Drawings:

See attached memo

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 79-107

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

02-20-80

SUMMARY DATE:

06-21-83

REVISION:

1

**ADDITION OF PRESSURIZER SAFETY VALVE DIRECT POSITION INDICATION**

**Summary:**

This PC/M provided for a positive position indication on the pressurizer safety valves and power operated relief valves to meet NUREG 0578 (T.M.L. Lessons Learned Item 2.1.3.A.) requirements. The safety valve direct position indication system consists of acoustic accelerometers mounted on the safety valve discharge.

**Safety Evaluation:**

This change does not involve an unreviewed safety question, nor does it increase the consequence of an accident occurring or increase the probability of malfunction of equipment. Thus the margin of safety will not decrease.

**Affected Drawings:**

See attached memo.

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None



ATTACHMENT 2

The following is a list of documents required to accomplish this modification. For the latest revision, addition, or deletion of documents listed, see current Document Control Register.

<u>Drawing/Specification/MR</u>	<u>Title</u>
5177-105-J720	M/R for Safety Valve Acoustic Monitoring System for the Safety Valve Position Indication Requirement
5177-108-J001	System Description for the Safety Valve Position Indication System
5177-108-M-1	Pressurizer Relief Valve Indication and RCS Subcooled Margin Monitor, Piping & Instrument Diagram
5177-105-E857	600V Power and Control Cable
5177-105-E862	600V Shielded Instrument Cable
5177-E108-E01	Elementary Diagram - Safety Valve Direct Position Indication (T.M.I. 2.1.3A)
DCN 5610-E426A	Wiring Diagram Penetrations
DCN 5610-E484	Connection Diagram - Process Radiation Monitoring Rack 3QR66
DCN 5610-E12	Electrical 125VDC & 120V Instrument AC Single Line Diagram, Sheet 2
DCN 5610-E401A	Connection Diagram Vertical Board 4C03 Sheet 2

Drawing/Specification/MrTitle

DCN 5610-E305

Circuit Schedule

DCN 5610-E306

Raceway Schedule

DCN 5610-E129

Raceway Layout for Instrumentation  
El. 30'-0" and El. 42'-0" Area 16 (DCN 1)

DCN 5610-E108

Electrical Tray, Conduit and Grounding  
El. 30'-6" Area 5

PLANT CHANGE/MODIFICATION 79-122

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 09-08-82

SUMMARY DATE: 08-26-83

REVISION: 1

AUXILIARY FEED PUMP ISI PRESSURE GAGE INSTALLATION

Summary:

This modification consisted of the installation of ISI pressures gages on the suction side of the auxiliary feed pumps. This was needed in order to perform monthly auxiliary feed pump tests. Stainless steel pipe was installed from bottom of suction line to the ISI gages.

Safety Evaluation:

This change was not nuclear safety related, with no unreviewed safety question. The probability on an accident or any malfunction occurring was not increased as previously evaluated in FSAR Chapter 14-0.

Affected Drawings:

5610-TE-4062 (Sh. 3)  
5610-M-2  
5610-M-311 (Sh. 189A)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 80-40

PC/M CLASSIFICATION:

NNS

UNIT:

3 & 4

IMPLEMENTED:

04-29-83

SUMMARY DATE:

08-26-83

REVISION:

1

## STEAM GENERATOR STORAGE COMPOUND

### Summary:

This PC/M added the steam generator storage compound located southeast of the Radwaste Building to be used for Units 3 & 4.

### Safety Evaluation:

This PC/M is not safety related and does not perform a safety function; therefore, the probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. It can be concluded that this PC/M does not involve an unreviewed safety question.

### Affected Drawings:

5177-074-C-22,23,  
22-1, 22-2, 23-1, 23-2  
5177-074-A-39

### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 80-049

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

04-22-83

SUMMARY DATE:

08-26-83

REVISION:

2

### REPLACEMENT OF CVCS CHECK VALVE 4-312A

#### Summary:

This PC/M required replacement of check valve 4-312A with a new valve. The change was necessary because the existing valve did not meet minimum wall thickness requirements and the previous vendor is no longer on the FP&L QA bidders list.

#### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety question.

#### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 80-55

PC/M CLASSIFICATION: NS

UNIT: 3&4

IMPLEMENTED: 10-04-82

SUMMARY DATE: 10-27-82

REVISION: 0

UPGRADE OF AUXILIARY FEEDWATER SYSTEM FLOW CONTROL AND INITIATION

Summary:

A new redundant safety grade auxiliary feedwater indication, initiation and control system was installed to conform to the NUREG 0578 requirements. The system will replace the existing control grade system up to existing solenoid valves mounted on auxiliary feedwater control valves.

Safety Evaluation:

This PC/M is nuclear safety related but did not involve an unreviewed safety question. No margin of safety discussed in the Technical Specifications was decreased, nor possibility of accident increased or created.

Affected Drawings:

5177-110-M1 NIS  
5177-105-M1 NIS  
5177-109-E-05 NIS  
5177-109-E-07 NIS  
5177-109-E-08 NIS  
5610-E-62  
5610-E-131  
5177-109-E-15 NIS  
5177-E-45 NIS  
5177-116-E-01 NIS  
5177-110-J100 NIS

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

OP 7300.1 Rev. 0 Pg. 3

OP 7304.1 Rev. 3 Pgs 2, 3, 5 and 6

PLANT CHANGE/MODIFICATION 80-56

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-17-82

SUMMARY DATE:

06-15-83

REVISION:

1

**UPGRADE OF AUXILIARY FEEDWATER SYSTEM FLOW CONTROL AND INITIATION -  
UNIT 4**

**Summary:**

Electrical portion of aux. feedwater initiation upgrade. Install new hand indicating controllers in control room, new indicators on the valve platform instrument nests and power supplies in cable spreading room.

**Safety Evaluation:**

The installation of the auxiliary feedwater flow indication, initiation and control system does not involve an unreviewed safety question because it does not affect any pressure boundary or any other safety system.

**Affected Drawings:**

5177-110-J101  
5610-E71/78-40B  
5610-E-133/78-76  
5610-E-129/80-53  
5177-105-M-2  
5177-109-E05  
5177-109-E09  
5177-109-E15  
5177-109-E10  
5177-116-E-01  
FCN-E-156  
FCN-E-120  
FCN-E-112  
5177-E-45

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

OP 7300.1  
OP 7304.1



PLANT CHANGE/MODIFICATION 80-87

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 10-26-81

SUMMARY DATE: 11-8-82

REVISION: -0-

REPLACEMENT OF SELECTED HAGAN RECORDERS

Summary: This PC/M replaced existing Hagan Recorders with Tracor Westronics brand. The existing recorders were requiring excessive maintenance due to age and limited part availability.

Safety Evaluation: The PC/M was Non-Nuclear safety with no unreviewed safety question. The probability of occurrence of an accident or malfunction of equipment has not increased. Therefore, the margin of safety defined by Technical Specification will not be affected.

Affected Drawings:

5610-M-311 SH. 340

5610-M-311 SH. 70

5610-M-311 SH. 123

5610-M-311 SH. 209

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures: None

PLANT CHANGE/MODIFICATION 80-96

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-27-83

SUMMARY DATE:

06-15-83

REVISION:

1

## EMERGENCY CONTAINMENT FILTER MODIFICATION

### Summary:

This PC/M upgrades several Emergency Containment Filter Dousing valves to Post LOCA qualified valves. Piping from the Containment Spray to the filters will be changed from carbon steel to stainless steel. Isolation valves and test connections are also supplied.

### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

### Affected Drawings:

Instrument Index  
5177-124-M-1

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 80-114

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

05-25-83

SUMMARY DATE:

07-05-83

REVISION:

1

## GENERATOR CORE MONITOR

### Summary:

This PC/M will install a system to detect overheating of generator windings and prevent possible generator damage.

### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

### Affected Drawings:

See PC/M 80-114  
Appendix C

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

MP 0725, Fire Stop and Cable Tray Fireproofing

PLANT CHANGE/MODIFICATION 80-116

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

06-15-83

REVISION:

1

**REPLACEMENT OF FEEDWATER LINE SNUBBER - UNIT 4**

**Summary:**

The following PSA-10 snubbers were replaced with PSA 35 snubbers: FPL Tag Nos. 19, 20, 21, 22 and 23. All these are located inside containment. Snubber support plates and mounts were also modified to accommodate higher loads.

**Safety Evaluation:**

This modification did not create an unreviewed safety question. The ability of the system to resist seismic loads was increased; therefore, the possibility for an accident was decreased.

**Affected Drawings:**

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5177-M-53  
5177-M-56  
5177-S-15  
5610-C-557 DCN 1  
5177-144-80116-R-006-01  
5177-144-80116-R-005-01  
5177-144-80116-R-006-02  
5177-144-4-FWH-19C  
4-FWH-14A  
4-FWH-13B  
4-FWH-19C  
4-FWH-13A  
5177-144-P-306

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION <u>80-118</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>3 &amp; 4</u>
	IMPLEMENTED:	<u>05-02-83</u>
	SUMMARY DATE:	<u>05-23-83</u>
	REVISION:	<u>1</u>

# IMPROVE DRAINAGE IN AREAS OF B-MCC AND 4160 SWGR ROOM

## Summary:

The purpose of this PC/M was to install a trench outside the 4160 V SWGR Room and in the area of the "B" MCC. This trench would improve drainage in these areas, precluding water accumulation from damaging affected equipment.

## Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

## Affected Drawings:

5610-C-108  
5610-C-109

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

## Affected Procedures:

None

PLANT CHANGE/MODIFICATION	<u>80-121</u>	PC/M CLASSIFICATION:	<u>NS</u>
		UNIT:	<u>3</u>
		IMPLEMENTED:	<u>08-12-82</u>
		SUMMARY DATE:	<u>08-26-83</u>
		REVISION:	<u>1</u>

## CONDENSATE STORAGE TANK PIPING AND STRUCTURAL MODIFICATION

### Summary:

This modification consisted of converting the condensate storage tank to a covered gas tight tank. The reasons for the modification are as follows:

1. Nitrogen blanketing and vent tank seal to keep water deaerated and protect the condensate storage tank.
2. Structural base ring addition to withstand vacuum and vent tank nozzle and dead weight loads.
3. Make-up water piping to vent tank and inside immersed overflow piping installation to maintain seal over nitrogen cap.

### Safety Evaluation:

This modification is nuclear safety with no unreviewed safety questions. No probability of accident or malfunction are increased and there was no decrease in the margin of safety as defined in the Technical Specifications.

### Affected Drawings:

5177-090-M-3

5610-M-2

5177-090-M100A

5177-M-51, 5177-M-53, 5177-M-57, 5177-M-58, 5177-090 P427, P431, 5177-090-J430, 5177-090-J610, 5177-090-AP01, 5177-090-P421.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

### Affected Procedures:

OP 7300.1

OP 7304.1

PLANT CHANGE/MODIFICATION 80-127

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

06-15-83

REVISION:

1

### STEAM FLOW TRANSMITTER MODIFICATION (UNIT 4)

#### Summary:

Steam flow transmitters FT 474, 475 and 495 and their corresponding sense lines were remounted in accordance with standard practice.

#### Safety Evaluation:

The improved mounting design ensures that the supports maintain their structural integrity and precludes the possibility of the transmitters becoming missiles and impacting other safety related equipment during a postulated maximum seismic event. The margin of safety has not been decreased. The probability of occurrence or the consequences of an accident have not been increased nor has the possibility of an accident or malfunction different than previously evaluated been caused.

#### Affected Drawings:

5610-E-109

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 80-137

PC/M CLASSIFICATION:

NS

UNIT:

3\*\*

IMPLEMENTED:

10-20-80

SUMMARY DATE:

05-23-83

REVISION:

2

**VITAL A.C. INVERTERS - FILTER CAP. MODIFICATION**

**Summary:**

This PC/M replaced eight 7800 $\mu$ F 150 V.D.C. capacitors with exide 15K $\mu$ F 150 V.D.C. capacitors because the vendor recommended replacement.

**Safety Evaluation:**

This PC/M involved the replacement of capacitors for similar ones as recommended by vendor. It did not change any function of the inverters. Therefore, it can be concluded that this PC/M does not involve an unreviewed safety question.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

\*\*(Corrected Unit Number)

PLANT CHANGE/MODIFICATION 80-142

PC/M CLASSIFICATION: NN5

UNIT: 3 & 4

IMPLEMENTED: 09-29-82

SUMMARY DATE: 11-23-82

REVISION: 0

### DELETE AUTO-START ON LAUNDRY TANK SYSTEM

#### Summary:

Auto-start on the laundry tank system was deleted and replaced with remote control start-stop which can be controlled from panel C-5 by plant operating personnel. This was done because the old auto-start could result in unmonitored release of contaminated water.

#### Safety Evaluation:

This PC/M is non-safety related and represents no unreviewed safety question; furthermore, after reviewing the technical specifications and FSAR, the probability of accidents are not increased. The addition of the start-stop remote button does not reduce the margin of safety previously defined. No new accident or equipment malfunctions is created.

#### Affected Drawings:

5610-E-25 Sh. 13  
5177-074-J1 (N.I.S.)  
5610-E-433  
5610-E-386  
5610-E-352

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

Present procedures will no longer apply after pumps A & B control system is modified. New procedure to be developed by PTP personnel.:

PLANT CHANGE/MODIFICATION 80-150

PC/M CLASSIFICATION:

NSR

UNIT:

4

IMPLEMENTED:

03-02-83

SUMMARY DATE:

06-03-83

REVISION:

1

### CONTAINMENT AIR SAMPLING SYSTEM MODIFICATION U-4

#### Summary:

This PC/M consists of replacing the existing containment air sampling system solenoid valves SV-4-2911, SV-4-2912, SV-4-2913 with valves qualified to the actual operating conditions under which they must perform. The purpose of this modification was to reduce or eliminate the high repair rate problems being experienced with the existing ASCO solenoid valves.

#### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

#### Affected Drawings:

EPP-80-149/150-001  
EPP-80-149/150-002  
Instrument Index Sh. 285

#### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION <u>81-012</u>	PC/M CLASSIFICATION:	<u>NS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>05-10-83</u>
	SUMMARY DATE:	<u>06-15-83</u>
	REVISION:	<u>1</u>

#### PRESSURIZER RELIEF TANK DRAIN MODIFICATIONS - UNIT 4

##### Summary:

The purpose of this PC/M is to prolong Reactor Coolant Drain Tank (RCDT) pump life. Connections and valving have been provided to permit isolating the RCDT from the Pressurizer Relief Tank (PRT). Each tank can now be drained independently via the RCDT pumps or via LCV-1003A & B to the containment sump. During PRT draining operations, the RCDT can now be isolated to prevent it from being drained completely. This has caused cavitation and has resulted in damage to the RCDT pumps in the past. In addition, valve packing leakoffs which may flash to steam have been re-routed from the RCDT to the PRT to eliminate NPSH problems.

##### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

##### Affected Drawings:

See Attachment

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

##### Affected Procedures:

OP 5110.1

OP 1300.1

APPENDIX AFUNCTIONAL AND DETAILED DESIGN DRAWINGSDRAWINGS AFFECTEDReference &  
Rev. Dwg. No.PC/M Dwg. No.  
& Rev.

5610-M-410-91 Sh. 2

5610-M-500-27 Sh. 2

5610-TE-4518

5610-TE-4501

5610-M-314 Sh. 121

5610-M-151

5610-M-155

5610-M-175

5610-M-311 Sh. 104

5610-E-25 Sh. 22 (2)

5610-E-25 Sh. 24

5610-E-25 Sh. 24

5610-E-25 Sh. 24A (3)

5610-E-305 Sh. 956

SK-60698-W-52 (4)

SK-60698-W-25 (4)

5610-E-433

5610-E-417A

5610-E-384A

5610-E-385A

5610-E-305 Sh. 783

5610-E-305 Sh. 775

Raceway Percentage Fill

EPP-81-11/12-015

EPP-81-11/12-016

JPE-81-12-017

EPP-PCM-81-12-001 (5)

EPP-PCM-81-12-002 (5)

EPP-PCM-81-12-003 (5)

EPP-PCM-81-12-004 (5)

EPP-PCM-81-12-005

EPP-PCM-81-12-006

EPP-PCM-81-12-007

EPP-PCM-81-12-008 (5)

EPP-PCM-81-12-009

EPP-PCM-81-12-010

EPP-PCM-81-12-011

EPP-PCM-81-12-012 (5)

EPP-PCM-81-12-013 (5)

EPP-PCM-81-12-014

- Notes: (1) Delete (none)  
 (2) See PC/M 80-11/110 for latest modification  
 (3) New drawing  
 (4) These sketches are in Dwg. 5610-M-420-184-1 Waste Boron Control Panel  
 (5) Dwgs common to PC/M 81-11 & 12 and can be found in PC/M 81-11

PLANT CHANGE/MODIFICATION 81-18

PC/M CLASSIFICATION:

NNS

UNIT:

3

IMPLEMENTED:

12-19-82

SUMMARY DATE:

06-03-83

REVISION:

2

## **SFP DEMINERALIZER SHIELDING**

### **Summary:**

The shielding covered by this design package was as follows:

1. A 23" thick concrete plug was placed in the existing 4' by 4' roof opening directly above the SFP demineralizer. The plug replaced an existing sheet metal hatch cover and was provided with lifting lugs so that it can be removed with a crane when necessary.
2. A floor to ceiling wall at the entrance to the SFP demineralizer compartment and an extension of the existing E-W running short wall around the SFP filters compartment up to the ceiling. These new walls were reinforced, 18 inches thick, to match the existing walls.

### **Safety Evaluation:**

In order to preclude impact on safety related equipment, systems and structures, the new SFP demineralizer shield plug and walls and the existing structures affected by them, have been designed and checked to withstand the maximum earthquake loading (E') used for the design of Turkey Point Units 3 & 4 seismic Category I structures. In addition, movement of the shield plug by a crane has been limited to prevent impact on safety related systems. This design has been treated as a safety related design feature in accordance with EPP-QI 2.3.

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not increased. There is no responsibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose an unreviewed safety question.

### **Affected Drawings:**

5610-C-254  
5610-C-255  
5610-C-256  
5610-C-292  
5610-C-603

### **NOTE:**

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### **Affected Procedures:**

None



UNIT:

4

IMPLEMENTED:

12-19-82

SUMMARY DATE:

06-03-83

REVISION:

2**SFP DEMINERALIZER SHIELDING****Summary:**

The shielding covered by this design package was as follows:

1. A 23" thick concrete plug was placed in the existing 4' by 4' roof opening directly above the SFP demineralizer. The plug replaced an existing sheet metal hatch cover and was provided with lifting lugs so that it can be removed with a crane when necessary.
2. A floor to ceiling wall at the entrance to the SFP demineralizer compartment and an extension of the existing E-W running short wall around the SFP filters compartment up to the ceiling. These new walls were reinforced concrete, 18 inches thick, to match the existing walls.

**Safety Evaluation:**

In order to preclude impact on safety related equipment, systems and structures, the new SFP demineralizer shield plug and walls and the existing structures affected by them, have been designed and checked to withstand the maximum earthquake loading (E') used for the design of Turkey Point Units 3 & 4 seismic Category I structures. In addition, movement of the shield plug by a crane has been limited to prevent impact on safety related systems. This design has been treated as a safety related design feature in accordance with EPP-QI 2.3.

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not increased. There is no responsibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose an unreviewed safety question.

**Affected Drawings:**

5610-C-256  
5610-C-292  
5610-C-293  
5610-C-294  
5610-C-604

**NOTE:**

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None



PLANT CHANGE/MODIFICATION 81-21

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 02-15-83

SUMMARY DATE: 04-08-83

REVISION: 0

## POWER SUPPLY TO DRY STORAGE WAREHOUSE

### Summary:

This modification consisted of building a transformer vault and providing necessary electrical installation to provide a 480/277V, 3-phase, 4-wire, 60 hz power supply for the dry storage warehouse. This modification was done by Altman Myers and Distribution Engineering and power obtained from the Florida City feeder.

### Safety Evaluation:

The dry storage warehouse power supply and associated duct banks do not perform a safety function and due to their location cannot interact with any safety related structures, systems, or equipment. The probability of occurrence or the consequences of a design basis accident previously evaluated in the FSAR has not been increased. There is no possibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M is non-safety related and does not involve an unreviewed safety question.

### Affected Drawings:

None  
(To be developed by  
FPL later)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-25

PC/M CLASSIFICATION: NNS

UNIT: COMMON

IMPLEMENTED: 04-20-83

SUMMARY DATE: 04-21-83

REVISION: 0

### DRY STORAGE WAREHOUSE

#### Summary:

This PC/M provided for a 100' x 140' dry storage warehouse located approximately 250 feet east of the radwaste building to be used for general plant storage of equipment and materials inside of the radiation control area. Altman-Myers perform the work.

#### Safety Evaluation:

The dry storage warehouse does not perform a safety function or provide protection for safety related systems or equipment. The probability of occurrence or consequence of a design basis accident or malfunction of equipment important to the safety of the plant evaluated in the FSAR is not increased. No possibility of accident or malfunction exists differently than those previously evaluated; hence, this PC/M poses no unreviewed safety question.

#### Affected Drawings:

5610-A-42  
Sheets (1 thru 6)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO  
81-68

PC/M CLASSIFICATION:

NS

UNIT:

3 & 4

IMPLEMENTED:

04-04-83

SUMMARY DATE:

05-25-83

REVISION:

1

## MSIV SOLENOID VALVE REPLACEMENT

### Summary:

This modification replaced the solenoid valves for the main steam isolation valves with upgraded solenoid valves by ASCO.

### Safety Evaluation:

This PC/M was nuclear safety related but does not involve an unreviewed safety question. The replacement valves are better than the original ones so no new possibility of an accident is created.

### Affected Drawings:

5610-M-311, Sh. 282

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION	CPWO <u>81-72</u>	PC/M CLASSIFICATION:	<u>NS</u>
	GENERIC	UNIT:	<u>3 &amp; 4</u>
		IMPLEMENTED:	<u>GENERIC</u>
		SUMMARY DATE:	<u>05-23-83</u>
		REVISION:	<u>0</u>

**EMERGENCY DIESEL TIE-IN 4KV BUSES "st" G.E. SWITCH**

**Summary:**

This CPWO was approved for the purpose of setting up spare switches in Stores for future use as replacement of existing switches when required. The new switches are now set up in Stores. Subsequent reports will follow the replacement of these switches.

**Safety Evaluation:**

The probability of accident evaluated in the FSAR and Technical Specification are not increased by this CPWO. It also does not reduce the margin of safety previously defined in the Technical Specification or FSAR. No new accident possibility or equipment malfunction is created as failure mode and effect are unchanged. In view of this evaluation, this CPWO is not considered to be an unreviewed safety question.

**Affected Drawings:**

5610-E-5-61

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 81-74

PC/M CLASSIFICATION:

NS

UNIT:

3

IMPLEMENTED:

05-05-83

SUMMARY DATE:

05-23-83

REVISION:

0

### MAIN STEAM LINE SNUBBER MODIFICATION

#### Summary:

This modification replaced two existing PSA-10 snubbers, that were damaged presumably during a transient loading, with larger capacity PSA-35 snubbers which will withstand higher loads.

#### Safety Evaluation:

This change does not represent an unreviewed safety question since it does not affect any accident addressed in the FSAR, present any new accident not previously analyzed in the FSAR nor affect the margin of safety for any Technical Specification.

#### Affected Drawings:

See Attachment

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

## ATTACHMENT I

The following is a list of documents required to accomplish this modification. For the latest revision, addition or deletion of documents listed, see current Document Control Register.

<u>Drawing/Specification</u>	<u>Title</u>
5177-M-53	Technical Specification for the Control Processes: Welding, Heat Treating and Nondestructive Examination (Appendices: 2, 31, 32, 56, and 75)
5177-M-56	Technical Specification for Field Fabrication and Installation of ANSI B31.1 Safety Related Pipe Supports
5177-PS-15	Pipe Support Design to ANSI B31.1
5177-178-8175-R-244-02	Pipe Support, Main Steam System
5177-178-8175-R-245-01	Pipe Support, Main Steam System
5610-C-984	Turbine Area - Unit 4 Main Steam and Dump Line Restraints Supporting Steel Sheet No. 14
5610-C-988	Turbine Area - Unit 4 Main Steam Snubbers Supporting Steel

PLANT CHANGE/MODIFICATION 81-75

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

03-17-83

SUMMARY DATE:

05-23-83

REVISION:

0

### MAIN STEAM LINE SNUBBER MODIFICATION

#### Summary:

This modification replaced two existing PSA-10 snubbers, that were damaged presumably during a transient loading, with larger capacity PSA-35 snubbers which will withstand higher loads.

#### Safety Evaluation:

This change does not represent an unreviewed safety question since it does not affect any accident addressed in the FSAR, present any new accident not previously analyzed in the FSAR nor affect the margin of safety for any Technical Specification.

#### Affected Drawings:

See Attachment

#### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None



## ATTACHMENT I

The following is a list of documents required to accomplish this modification. For the latest revision, addition or deletion of documents listed, see current Document Control Register.

<u>Drawing/Specification</u>	<u>Title</u>
5177-M-53	Technical Specification for the Control Processes: Welding, Heat Treating and Nondestructive Examination (Appendices: 2, 31, 32, 56, and 75)
5177-M-56	Technical Specification for Field Fabrication and Installation of ANSI B31.1 Safety Related Pipe Supports
5177-PS-15	Pipe Support Design to ANSI B31.1
5177-178-8175-R-244-02	Pipe Support, Main Steam System
5177-178-8175-R-245-01	Pipe Support, Main Steam System
5610-C-984	Turbine Area - Unit 4 Main Steam and Dump Line Restraints Supporting Steel Sheet No. 14
5610-C-988	Turbine Area - Unit 4 Main Steam Snubbers Supporting Steel

PLANT CHANGE/MODIFICATION 81-78

PC/M CLASSIFICATION:	<u>NS</u>
UNIT:	<u>3</u>
IMPLEMENTED:	<u>05-10-83</u>
SUMMARY DATE:	<u>06-03-83</u>
REVISION:	<u>1</u>

### HHSI PIPE SUPPORT FOUNDATIONS

#### Summary:

This modification provided foundations for pipe supports 3 PRW H-3, 3 PRW H-4, and 3 PRW H-5 so that they can withstand the seismic, thermal and dead loads provided by the Power Plant Engineering Mech./Nuclear Section pipe analysis run for PC/M 80-124 titled, HHSI Refueling Isolation Valve.

#### Safety Evaluation:

The probability of occurrence or the consequence of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not increased. There is no possibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

#### Affected Drawings:

EPP-C-8178-001 NIS  
EPP-C-8178-002 NIS  
EPP-C-8178-003 NIS  
EPP-C-8178-004 NIS

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-85  
(CPWO)

PC/M CLASSIFICATION:	<u>NNS</u>
UNIT:	<u>3 &amp; 4</u>
IMPLEMENTED:	<u>04-18-83</u>
SUMMARY DATE:	<u>05-23-83</u>
REVISION:	<u>1</u>

## FLUX MAPPING SYSTEM MATERIAL SUBSTITUTION

### Summary:

This CPWO governs the substitution of stainless steel sheet metal for anodized sheet metal for the Flux Mapper drive motor covers. The anodized sheet metal has been found to be susceptible to corrosion.

### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-99

PC/M CLASSIFICATION: NS

UNIT: 4

IMPLEMENTED: 05-27-83

SUMMARY DATE: 06-15-83

REVISION: 1

### CHARCOAL FILTER THERMOCOUPLE REPLACEMENT - UNIT 4

#### Summary:

This PC/M consists of the replacement of the existing thermocouples for the emergency containment charcoal filters and coolers by qualified resistance temperature detectors. These RTDs will be located in protection tubes installed in the new charcoal filter traps by the charcoal tray manufacturer.

#### Safety Evaluation:

This PC/M does not involve an unreviewed safety question because it will not affect the functions of any other safety system. The replacement of the existing charcoal filter trays and the replacement of the filter and cooler thermocouples with the qualified resistance temperature detectors will have no effect on the containment heat sink and therefore, no effect on the Appendix K, ECCS analysis.

#### Affected Drawings:

See Attachment

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

DOCUMENT STATUS

<u>Dwg/Spec/MR</u>	<u>Title</u>	<u>Rev.</u>
5177-183-J568	Material Requisition for Resistance Temperature Detectors for the Emergency Containment Charcoal Filters and Coolers	1
5177-183-J304A	Material Requisition for Electronic Multipoint Recorders for the Emergency Containment Charcoal Filters and Coolers	1
5177-183-J100	Instrument Installation Detail for Resistance Temperature Detectors for the Emergency Containment Charcoal Filters and Coolers	0
5177-116-E-01 (Sh.A)	Single Line Diagram, Vital 120 Volt A.C. Distribution Panels	3
5177-116-E-01 (Sh.4)	Single Line Diagram, Vital 120 Volt A.C. Distribution Panels	1
610-E-307 Sh. 34/81-99	Panel Shcedule, LP 46	0
5177-183-E-05	Elementary Diagram, Charcoal Filter RTD's Unit 3 & 4 (Sht. A and Sheet 1)	0
610-E-413A/81-99	Connection Diagram, Miscellaneous Devices 4C05 & 4C06	Late
610-E-424A/80-54	Wiring Diagram, Penetrations	3
P. 5610-M-301-107 Sh. 37, Rev. 6	Rear View Wiring Diagram for Vertical Panel "B" Section 4C05	DCN Late
P. 5610-M-301-108 Sh. 38, Rev. 5	Rear View Wiring Diagram for Vertical Panel "B" Section 4C05	DCN Late
610-E-107/78-76	Electrical Tray Conduit & Grounding El. 14'-0" - Area 11	10
610-E-108/78-76	Electrical Tray Conduit & Grounding El. 30'-6" - Area 11	9
610-E-109/78-76	Electrical Tray Conduit & Grounding El. 58'-0" - Area 11	6
610-E-112/80-26	Electrical Tray Conduit & Grounding El. 58'-0" - Area 12	3
5177-E-45 For PC/M 81-99	Circuit & Raceway Schedule	0
610-E-305, Rev. 39	Circuit Schedule	DCN #8
610-E-306, Rev. 39	Raceway Schedule	DCN #5
R 5177-183-E-036	Conduit & Fittings	0
R 5177-183-E-038	Pullbox, Terminal Box & Gutters	1

PLANT CHANGE/MODIFICATION 81-101

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

04-07-83

SUMMARY DATE:

07-05-83

REVISION:

1**GENERATOR RTD TEMPERATURE MONITORING SYSTEM****Summary:**

This modification involved the installation of a system to monitor the temperature at several locations in the generator, calculate difference between highest/lowest reading, calculate actual and expected rise in inlet/outlet gas temperature. The system allows better monitoring of generator conditions and provides alarms when temperatures deviate from normal.

**Safety Evaluation:**

This change is non-nuclear safety related as it does not affect any system or plant features necessary to assure the integrity and safe operation/shutdown of the reactor coolant system. It also does not involve an unreviewed safety question. This new system performs a monitoring function and its failure will not have any significant effect on the plant operation.

**Affected Drawings:**

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5610-E-369A

5610-E-404A

5610-M-301-66-4

5610-E-39

5610-M-3-93

6064559-3 NIS (W)

DWO 4481-1 NIS (Kaye Dwg)

EPP-PC/M-81-101-03 Shs. 1-4 NIS

5610-E-303 Sh. 43

5610-E-307 Sh. 32

DWO 4481-11 NIS (Kaye Dwg)

5610-E-71-11

5610-E-71-12

5610-E-71-4 Shs. 1 &amp; 7

5610-E-71-8 Shs 1 &amp; 7

5610-E-301-46

5610-M-301-12

5610-M-46-12 Sh. 10 &amp; 11

5610-E-161

5610-E-157

5610-E-160

5610-E-128

5610-E-305 Sh. 13

5610-M-311 Shs. 225, 4X, 376

5610-E-300 Sh. 32

EPP-PCM-81-101-24 (2) NIS

EPP-PCM-81-101-25 (2) NIS

EPP-PCM-81-101-26 (2) NIS

EPP-PCM-81-101-27 (2) NIS

EPP-PCM-81-101-28 (2) NIS

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

OP 8702.2

OP 0208.3

PLANT CHANGE/MODIFICATION <u>81-102</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>3 &amp; 4</u>
	IMPLEMENTED:	<u>06-07-83</u>
	SUMMARY DATE:	<u>06-24-83</u>
	REVISION:	<u>1</u>

## NUCLEAR MAINTENANCE BUILDING FIRE PROTECTION

### Summary:

This modification consisted of installations of ionization fire detectors and a control module in the Nuclear Maintenance Building. The detectors were to be mounted on the ceiling and the control module was to be centrally located in the Nuclear Maintenance Building. A lamp panel was also to be located in the main control room to indicate an alarm in the Nuclear Maintenance Building.

### Safety Evaluation:

The fire detection system is not interconnected to any safety related systems. This PC/M will have no effect on the probability of occurrence of an accident already evaluated in the FSAR. The installation of this fire detection system does not affect operating functions, conditions or safety related equipment. Thus, the addition will not create the possibility of an accident not considered in Chapter 14 of the FSAR. No margin of safety as defined in the Basis for any Technical Specification is affected. Therefore, this PC/M does not involve an unreviewed safety question.

### Affected Drawings:

5177-074-E-65  
5177-074-E-29  
5177-100-E-2  
5610-E-133/78-76  
5177-074-E-66

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system  
\* - Dwg. not included in PC/M package

### Affected Procedures:

None



PLANT CHANGE/MODIFICATION <u>81-109</u>	PC/M CLASSIFICATION:	<u>NSR</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>04-12-83</u>
	SUMMARY DATE:	<u>05-05-83</u>
	REVISION:	<u>1</u>

## CONTAINMENT EVACUATION ALARM MODIFICATION

### Summary:

This PC/M installed a time delay on pick-up relay in series with the automatic initiation of the alarm to avoid false alarms.

### Safety Evaluation:

Since Comm. System is not safety related, the malfunction of the Containment Evacuation Alarm will not increase the probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to safety previously evaluated in the FSAR.

### Affected Drawings:

5610-401C96 Sh. 38  
5610-E-1579, 466, 305, 306

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-118

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 12-28-82

SUMMARY DATE: 01-07-83

REVISION: 0

CABLE SPREADING ROOM HVAC FOR  
CONTROL ROOM HABITABILITY MODIFICATIONS

Summary:

This modification provided a single package room air conditioner within the location of unused wall louver in cable spreading room. Purpose being to restore minimal cooling removed when ductwork from Control Room System is modified under PC/M 81-117.

Safety Evaluation:

The probabilities of occurrence of an accident and malfunction of equipment previously evaluated in the FSAR has not been increased. Therefore, this modification does not involve an unreviewed safety question.

Affected Drawings:

5177-109-E-15

5177-131-E-01

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 81-121 PC/M CLASSIFICATION: NNS  
UNIT: 3 & 4  
IMPLEMENTED: 8-03-82  
SUMMARY DATE: 8-26-83  
REVISION: 1

INSTRUMENT MANIFOLD ASSEMBLY REPLACEMENT

Summary; Subject: CPWO 81-121

Replaced 4 way instrument manifolds that were not QC approved for ones that met QC requirements (safety related). These manifolds affected primary and secondary instrumentations.

Safety Evaluation:

The replacement of above manifold assembly has been evaluated in terms of material specs, performance parameters and design code and determined to be equivalent or better than the original manifolds. Therefore, the use of the new manifolds is acceptable and does not constitute an unreviewed safety question.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

UNIT: 3 & 4IMPLEMENTED: 11/1/82SUMMARY DATE: 11/3/82REVISION: 0SPARE RCP LUBRICATING OIL COLLECTION SYSTEM

Summary: The spare RCP motor lubricating oil collection system components were required to provide two functions. First, to provide the spare RCP motor with enclosures/deflectors where it's design/construction differs from the installed operating RCPs so that a motor changeout was not hampered due to oil collection system fit up. The system was installed complete to reduce the possibility of potential oil leakage contacting hot pump surfaces and causing auto-ignition of the oil.

Safety Evaluation: The spare RCP motor lubricating oil collection system modifications do not affect operation of the reactor coolant pumps, nor is a new potential accident or malfunction created. Similarly, no previously evaluated equipment malfunction is made more probable nor does any technical specification need to be modified. Therefore, no unreviewed safety questions concerning this modification exists.

Affected Drawings:

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

See attached listed drawings, none in system

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures: None

PLANT CHANGE/MODIFICATION 81-126

PC/M CLASSIFICATION:

NNS

UNIT:

3

IMPLEMENTED:

05-26-83

SUMMARY DATE:

06-24-83

REVISION:

1

### CONTAINMENT SUMP PUMP INDICATOR LIGHTS

#### Summary:

This PC/M will add control room indication of sump pump breaker position. Currently, there is only indication of containment sump level.

#### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

#### Affected Drawings:

See PC/M  
Appendix B

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-134

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 01-06-83

SUMMARY DATE: 03-21-83

REVISION: 0

WASTE HOLDUP TANK ANNUNCIATION (HIGH LEVEL)

Summary:

This PC/M consisted of replacing the existing level switch of the waste holdup tank (WHT) with a dual level switch to provide remote annunciation inside the control room for WHT high level.

Safety Evaluation:

This PC/M is non-nuclear safety related (N.N.S.). No increase in the probability of occurrence or consequences of an accident or the creation of a possibility for an accident or malfunction of a different type than those previously evaluated in the FSAR results. The margin of safety as defined in the basis for any technical specifications is not reduced. Therefore, this PC/M does not pose an unreviewed safety question.

Affected Drawings:

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5610-E-491  
5610-E-38  
5610-E-433 Rev 9  
5610-E-410 Rev 11  
5610-M-301-70 and 66  
5610-E-305  
5610-M-311  
5610-TE-4518  
5610-M-420-184-1-Sk60698-P (NIS)  
5610-M-420-184-1-Sk60698-W-2(NIS)  
5610-M-420-184-1-Sk60698-W-47(NIS)

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

OP 0208.12

PLANT CHANGE/MODIFICATION 81-136

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

05-16-83

SUMMARY DATE:

08-26-83

REVISION:

2

### L.O. BETTERMENT TIE-INS

#### Summary:

This modification involved the installation of the L.O. Betterment Reservoir Tie-Ins. The L.O. Betterment Reservoir Tie-Ins are tank penetrations being utilized by the existing gravity/mechanical Bowser Filtration System as inlet and outlet connections to allow parallel operation with Centrifuge System.

#### Safety Evaluation:

The L.O. Betterment Reservoir Tie-Ins are not nuclear safety related or a part of a safety related design feature because the reservoir tie-ins are not used to prevent postulated accidents, or to mitigate the consequences of such accident or to achieve or maintain safe shutdown conditions or to adequately cool spent stored fuel. Therefore, it can be concluded that the modification does not pose an unreviewed safety question.

#### Affected Drawings:

5610-M-4  
5610-M-3-11  
5610-T-E-4064 Sh. 1 of 3  
5610-M-209  
5610-M-128  
5610-M-314 Sh. 406 & 407

#### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 81-142 (CPWO) PC/M CLASSIFICATION: NS  
(GENERIC) UNIT: 3 & 4  
IMPLEMENTED: 03-10-83  
SUMMARY DATE: 04-28-83  
REVISION: 0

### NBFD RELAY REPLACEMENT

#### Summary:

This modification replaced NBFD relay coils from Style #1271C50G01 to #1293C51G01 on those coils which are normally de-energized. Coils which are normally energized are to be equipped with coil Style #1271C50G01 until current supply is exhausted at which time Style #1293C51G01 will be installed.

#### Safety Evaluation:

This CPWO is nuclear safety related. However, it does not increase the probability or possibility of malfunction of equipment not considered in the FSAR. It does not decrease the margin of safety discussed in the Technical Specifications, nor the probability of occurrence or consequence of an accident is increased; thus, no unreviewed safety question.

#### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-145

PC/M CLASSIFICATION: NNS

UNIT: 3&4

IMPLEMENTED: 05-17-82

SUMMARY DATE: 08-26-82

REVISION: 0

### HYDROGEN AND NITROGEN BUILDING RAMP ADDITIONS

#### Summary:

This PC/M blocked off the old entrance on the east wall of the hydrogen and nitrogen building and added a new opening on the northwest corner of the building. A ramp was installed to allow easy access to the building. This was necessary as the old entrance was blocked by the addition of the heavy haul road.

#### Safety Evaluation:

This PC/M is non-nuclear safety related and did not involve an unreviewed safety question. Since a structural failure of the modifications can neither directly or indirectly affect a safety related component, structure or system, the probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant previously evaluated in the FSAR has not been increased. Additionally, there is no possibility of an accident or malfunction different than those previously evaluated.

#### Affected Drawings:

A-C81145 Sh. 1, 2, 3 & 4

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION <u>81-148</u>	PC/M CLASSIFICATION:	<u>NS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>05-27-83</u>
	SUMMARY DATE:	<u>06-15-83</u>
	REVISION:	<u>1</u>

## INSTALLATION OF QUALIFIED CONNECTORS FOR SOLENOID VALVES AND INSTRUMENTS

### Summary:

This modification involved the installation of IEEE 323-1974 and IEEE 344-1975 qualified "Conax" seal assemblies on several instruments and solenoid valves. The seal assemblies were mounted at the instrument/valve housing to provide a qualified sealed interface between the instrument/valve internal connections and the field wiring. This was done to maintain the instrument/valves environmental qualifications.

### Safety Evaluation:

This change is nuclear safety related because it affects various safety related systems. However, the installation of these Conax seal assemblies will maintain the environmental qualifications of the instruments and solenoid valves. No system characteristic will be changed and the probability of occurrence of an accident would be no greater. This change does not decrease the margins of the system, change the operating function or conditions, or affect other safety related equipment. So, it does not create the possibility of an accident not considered in FSAR Chapter 14 nor does it decrease any margin of safety discussed in any Technical Specification. Therefore, it does not involve an unreviewed safety question.

### Affected Drawings:

5610-E-581 NIS  
5610-E-582 NIS  
5610-E-583 NIS  
5610-E-584 NIS  
5610-E-585 NIS  
5610-E-586 NIS  
5610-E-594 NIS

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 81-151

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

04-14-83

SUMMARY DATE:

07-05-83

REVISION:

1

#### UNIT 4 PERSONNEL DOOR INTERLOCK ANNUNCIATION

##### Summary:

This modification will install a limit switch on each door (vessel & atmosphere) in the personnel hatch. The switches will be wired so that, if both doors are open simultaneously the "Personnel Door Interlock Violated" alarm will come on. This new logic will be added to the existing interlock logic so that either one will set off the alarm.

##### Safety Evaluation:

The modification is nuclear safety related as it involves a minor modification to the containment personnel lock. It will not affect the structural integrity of the personnel lock. The changes will allow the installation of microswitches to monitor the position (Open/Close) of both, vessel and atmosphere doors. These microswitches will be wired into the existing personnel lock control/lighting circuit so that if both doors are open at the same time the "Personel Door Interlock Violated" annunciator alarm will come on. Therefore, this modification does not involve an unreviewed safety question as it does not increase or affect the probability or consequences of an accident previously evaluated in the FSAR.

##### Affected Drawings:

5610-E-389A  
5610-C-49-354  
5610-C-49-356  
5610-C-49-355  
5610-C-45-359 Sheet 3, 4, 6, 13 & 14

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

##### Affected Procedures:

OP 208.11

PLANT CHANGE/MODIFICATION 81-168

PC/M CLASSIFICATION: NS

UNIT: 4

IMPLEMENTED: 12-1-82

SUMMARY DATE: 12-10-82

REVISION: 0

ICCS - MECH. MODIFICATION TO RV HEAD AND INTERNALS

Summary:

This addition involved the modification of the reactor vessel head and internals to accommodate the installation of two heated junction thermocouple probes. The probes were installed where two part length control rods were located. There was an NRC commitment involved with this modification.

Safety Evaluation:

This modification did not involve an unreviewed safety question. It was nuclear safety related with the probability of malfunction or accident to any system not changing since previously evaluated in the FSAR. It did not change the margin of safety as defined in the basis for any technical specifications.

Affected Drawings:

5177-125-M-400-1-1-NIS  
5177-125-M-400-3-1-NIS  
5177-125-M-401-1-1-NIS  
5177-125-M-401-2-2-NIS  
5177-125-M-401-3-1-NIS

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION <u>81-170</u>	PC/M CLASSIFICATION:	<u>NS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>05-10-83</u>
	SUMMARY DATE:	<u>06-15-83</u>
	REVISION:	<u>1</u>

**REMOVAL OF PZR INSTR. HEATER CUBICLES AND RELOCATION OF EQUIPMENT**

**Summary:**

The plant is switching to a type of pressure transmitter not requiring a heated cubicle for proper operation. Another PC/M (81-09) governs the installation of these new transmitters while this PC/M removes the old ones.

**Safety Evaluation:**

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

**Affected Drawings:**

See Attached Pages

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

REFERENCE

1) EPP-PCM-81-170-01	5610-E-307 Sh. 32, Rev. 2
2) EPP-PCM-81-170-02	5610-E-305 Rev. 39
3) EPP-PCM-81-170-03	5610-E-307 Sh. 36, Rev. 5
4) EPP-PCM-81-170-04	5610-E-305 Rev. 39
5) EPP-PCM-81-169/170-05 Sh. 1	5610-M-401C-96 Sh. 129, Rev. 4
6) EPP-PCM-81-169/170-05 Sh. 2	5610-M-401C-96 Sh. 130, Rev. 3
7) EPP-PCM-81-170-06	List of affected conduits
8) EPP-PCM-81-169/170-07 Sh. 1	5610-M-430-93 Rev. 10
9) EPP-PCM-81-169/170-07 Sh. 2	Hagan dwg. 5960D34
10) EPP-PCM-81-169/170-07 Sh. 3	Hagan dwg. 5960D44
11) EPP-PCM-81-169/170-07 Sh. 4	Hagan dwgs. 5960D35 & 5960D45
12) EPP-PCM-81-169/170-08	5610-M-430-94 Rev. 8
13) EPP-PCM-81-170-09	5610-E-108 Rev. 8
14) EPP-PCM-81-170-10 Sh. 1	5610-E-468A Rev. 8
15) EPP-PCM-81-170-10 Sh. 2	5610-E-468A Rev. 8
16) EPP-PCM-81-170-11	5610-E-441A Rev. 5
17) EPP-PCM-81-170-12	5610-E-444A Rev. 5
18) EPP-PCM-81-170-13	5610-E-445A Rev. 6
19) EPP-PCM-81-170-14	5610-E-443A Rev. 7
20) EPP-PCM-81-169/170-15	5610-M-401-331 Rev. 8
21) EPP-PCM-81-169/170-16	5610-M-401-341 Rev. 8
22) EPP-PCM-81-169/170-17	Hagan dwg. 237C915
23) EPP-PCM-81-169/170-18	5610-M-401-336 Rev. 9
24) EPP-PCM-81-169/170-19	5610-M-401C-96 Sh. 80, Rev. 3



REFERENCE

25) EPP-PCM-81-169/170-20	5610-M-401C96 Sh. 81, Rev. 4
26) EPP-PCM-81-170-21	5610-E-465A Rev. 6
27) EPP-PCM-81-170-22	5610-E-422A
28) EPP-PCM-81-170-23	5610-E-423A
29) EPP-PCM-81-170-24	5610-E-425A
30) EPP-PCM-81-170-25	5610-E-424A
31) EPP-PCM-81-170-26	5610-E-427A, Rev. 4
32) EPP-PCM-81-170-27 Sh. 1	List of Cables to be Deleted
33) EPP-PCM-81-170-27 Sh. 2	List of Cables to be Deleted
34) EPP-PCM-81-170-27 Sh. 3	List of Cables to be Deleted
35) EPP-PCM-81-169/170-28	5610-M-401-175 Sh. 1, Rev. 8
36) EPP-PCM-81-169/170-29	5610-M-401-180 Rev. 7
37) EPP-PCM-81-169/170-30	5610-M-401-185 Rev. 8
38) EPP-PCM-81-169/170-31	5610-M-401-188 Rev. 10
39) EPP-PCM-81-170-32	5610-E-403A Rev. 8
40) EPP-PCM-81-169/170-33	5610-E-39 Rev. 8
41) EPP-PCM-81-170-34	5610-E-409A Rev. 5
42) EPP-PCM-81-170-35	5610-M-301-41-14
43) EPP-PCM-81-170-36	5610-M-301-103 Sh. 33, Rev. 9
44) EPP-PCM-81-170-37	5610-M-301-104 Sh. 34, Rev. 5
45) EPP-PCM-81-170-38	5610-M-301-105 Sh. 35, Rev. 7
46) EPP-PCM-81-169/170-39	5610-M-430-154 Sh. 2, Rev. 4
47) EPP-PCM-81-169/170-40	5610-M-430-154 Sh. 8, Rev. 8
48) EPP-PCM-81-169/170-41	5610-M-430-154 Sh. 7, Rev. 8

49) EPP-PCM-81-169/170-42	5610-M-430-39 Rev. 12
50) EPP-PCM-81-169/170-43	5610-M-401-193 Sh. 1, Rev. 9
51) EPP-PCM-81-169/170-44	5610-M-401-349 Rev. 10
52) EPP-PCM-81-170-45	5610-E-447A Rev. 6
53) EPP-PCM-81-170-46	5610-E-402A Rev. 5
54) EPP-PCM-81-170-47	5610-M-301-66 Sh. 6, Rev. 4
55) EPP-PCM-81-170-48	5610-M-301-26 Rev. 15
56) EPP-PCM-81-170-49 Sh. 1	Sketch
57) EPP-PCM-81-170-49 Sh. 2	Sketch
58) EPP-PCM-81-169/170-50 Sh. 1	List of Instruments to be Deleted
59) EPP-PCM-81-169/170-50 Sh. 2	List of Instruments to be Deleted
60) EPP-PCM-81-169/170-50 Sh. 3	5610-M-311 Sh. 220A
61) EPP-PCM-81-170-51 Sh. 1	Sketch
62) EPP-PCM-81-170-51 Sh. 2	Sketch
63) EPP-PCM-81-169/170-52	Sketch
64) EPP-PCM-81-169/170-53	Sketch
65) EPP-PCM-81-169/170-54	Sketch
66) EPP-PCM-81-169/170-55	Sketch
67) EPP-PCM-81-170-56	Component Evaluation sht. for PT-4-4
68) EPP-PCM-81-170-57	Component Evaluation sht. for PT-4-4
69) EPP-PCM-81-170-58	Component Evaluation sht. for PT-4-4

PLANT CHANGE/MODIFICATION 82-02

PC/M CLASSIFICATION: NNS QA/QC

UNIT: 4

IMPLEMENTED: 05-16-83

SUMMARY DATE: 05-23-83

REVISION: 0

### NITROGEN BACK-UP FOR MAIN STEAM DUMP TO ATMOSPHERE VALVES

#### Summary:

A nitrogen back-up was provided to the steam dump to atmosphere valves and the associated hand controllers located in the Control Room. This provided an alternate source of air supply to the valves and controller in the event of loss of all A.C. power.

#### Safety Evaluation:

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. This PC/M does not reduce the margin of safety previously defined in the FSAR or Technical Specifications. Based on the above, it can be concluded that this PC/M is non-safety related and does not pose an unreviewed safety question.

#### Affected Drawings:

5610-TE-4061, Sh. 3  
5610-M-314  
5610-M-339  
5610-M-301-30-1  
5610-TE-4061, Sh. 1

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

OP 0208.11

PLANT CHANGE/MODIFICATION 82-003

PC/M CLASSIFICATION: NNS

UNIT: COMMON-3 & 4

IMPLEMENTED: 03-08-83

SUMMARY DATE: 06-08-83

REVISION: 1

### SPENT RESIN TRANSFER LINES SHIELDING

#### Summary:

Lead shielding and supports were installed on the spent resin transfer lines from the boric acid evaporator condensate demineralizer and the base cation ion exchangers to the main resin header. The shielding reduced radiation in the vicinity of these pipes.

#### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

#### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-34

PC/M CLASSIFICATION: NNS

UNIT: 3&4

IMPLEMENTED: 09-23-82

SUMMARY DATE: 10-27-82

REVISION: 0

## SECURITY FENCE MODIFICATION INTAKE STRUCTURES

### Summary:

This modification involved the addition of perimeter fencing around both intake structures as well as providing fence sensor cable and grounding. A controlled exit/access area was provided to the intake structures walkway through two new gates.

### Safety Evaluation:

This modification is not nuclear safety related thus it does not affect any safety related system or feature in the plant. Furthermore, it does not involve an unreviewed safety question as it does not affect, create or increase the probability of accident or malfunction addressed in the FSAR or the Technical Specifications.

### Affected Drawings:

5177-067-E-10 Sh. 11

5177-067-E-10 Sh. 15

5177-067-E-10 Sh. 18

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-47

PC/M CLASSIFICATION: NS  
UNIT: 3  
IMPLEMENTED: 03-02-82  
SUMMARY DATE: 03-10-82  
REVISION: 0

MODIFICATION TO CONTAINMENT SPRAY  
SYSTEM (I.C.) PER NRC I-E BULLETIN 79-14

Summary:

This modification involved the modification of pipe supports in the Containment Spray System (inside containment) per NRC I-E Bulletin 79-14.

Safety Evaluation:

This change is nuclear safety related with no unreviewed safety question. The probability of a malfunction or accident occurring was not increased, nor was the safety margin decreased per Technical Specifications.

Affected Drawings:

5177-102SK-P-693  
Sh. 11-14 NIS

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-49

PC/M CLASSIFICATION:

NNS

UNIT:

3 & 4

IMPLEMENTED:

05-26-83

SUMMARY DATE:

06-15-83

REVISION:

1

## CONTAINMENT SUMP PUMP INDICATION LIGHTS

### Summary:

This PC/M added control room indication of each containment sump pump breaker position. Indication is by means of red and green lights mounted in the filler panels of the vertical control boards of each unit.

### Safety Evaluation:

This modification is not nuclear safety related. Seismic Category I mounts will be used to prevent impact with other safety related equipment per IEEE 344-1975. The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased since the modification only involves indication of non-essential equipment and it is designed in conformance with applicable standards.

### Affected Drawings:

5177-114-E-07, 09  
5610-E-348A  
5610-E-350A  
5177-105-M-2, M-1  
5610-E-115, 123, 410, 410A  
5610-M-301, 70, 105

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-57

PC/M CLASSIFICATION: NS

UNIT: 3&4

IMPLEMENTED: 02-24-82

SUMMARY DATE: 10-01-82

REVISION: 0

UNITS 3 & 4 "A" AUX. FEEDWATER PUMP

Summary:

This modification consisted of installing a hold down device on the "A" Aux. Feedwater Pump. This was done to hold down the pump and is only necessary during a coast down condition of the pump.

Safety Evaluation:

This PC/M is nuclear safety related but did not involve an unreviewed safety question. No new possibilities of accidents were created nor were any possibilities of accidents as described in the FSAR increased. No margin of safety as defined in the Technical Specifications was decreased.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

UNIT: 3 & 4IMPLEMENTED: 11/1/82SUMMARY DATE: 11/3/82REVISION: 0GAS ANALYZER VACUUM PUMP

Summary: This PC/M supplies a permanent source of power to Gas Analyzer vacuum pump from existing receptable powered from LP411A-26. This source of power is non-safety related.

Safety Evaluation: This PC/M is not Nuclear safety related nor does it involve an unreviewed safety question. The probability of accident or malfunction of equipment previously evaluated in the FSAR will not increase. The margin of safety based on Technical Specifications is not reduced.

Affected Drawings:5610-E-307 Sh. 405610-M-500-1245610-M-500-124

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS JPE-E-8268 - (01 thru 05)NIS - Dwg. not in system\* - Dwg. not included in PC/M packageAffected Procedures: None

PLANT CHANGE/MODIFICATION 82-89

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 07-22-82

SUMMARY DATE: 08-03-82

REVISION: 0

### MAIN TRANSFORMER ACCESSORIES 480V SUPPLY MODIFICATION

#### Summary:

This modification involved the replacement of an Allen-Bradley automatic transfer switch with a functionally identical switch made by ASCO. The switch is used to transfer 480V power from the normal feed to the emergency feed if the normal 480V supply is lost. The modification was done to replace the existing electro-mechanical switch with an electronic type.

#### Safety Evaluation:

This modification is not nuclear safety related as it does not affect any safety related system, or feature in the plant. Furthermore, it does not involve an unreviewed safety question as this modification does not affect, create, or increase the probability of any accident/malfunction already addressed or new in the FSAR nor does it affect the Technical Specifications.

#### Affected Drawings:

5610-E-2-26-4

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-96

PC/M CLASSIFICATION: NNS

UNIT: 3&4

IMPLEMENTED: 08-19-82

SUMMARY DATE: 09-09-82

REVISION: 0

## RADWASTE BUILDING CRANE CAPACITY UPGRADE

### Summary:

This PC/M involved upgrading the Radwaste Building crane capacity from 25 tons to 26 tons. The only modification necessary was the addition of a new hook. Whiting re-analyzed their crane and upgraded it to 26 tons. This was necessary to lift the new loaded resin cask which would have exceeded the old rating of 25 tons by 1,250 pounds.

### Safety Evaluation:

The subject crane is not safety related and thus the PC/M is non-nuclear safety related. Upgrading of the crane will have negligible effect on the Radwaste Building structure. No safety related system can be affected by this PC/M and, therefore, no unreviewed safety question was involved. No possibilities of accidents have been increased or created by this modification.

### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-107

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 01-18-83

SUMMARY DATE: 01-10-83

REVISION: 0

NEW DRAINFIELD FOR TSC AND I & C SHOP

Summary:

The scope of this design package provided a replacement drainfield for the existing septic system servicing the Technical Support Center (TSC) and the I & C shop. The existing drainfield was removed because it will lie directly beneath the proposed location of the new raw water storage tank. The replacement system was located due east of the TSC. The new layout and design was in accordance with the South Florida Building Code and the Dade County Department of Pollution Control.

Safety valuation:

The probability of occurrence or consequences of a design basis accident or the malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

Affected Drawings:

5177-117-C-5 (Rev. 6)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-108

PC/M CLASSIFICATION:

NNS

UNIT:

3 & 4

IMPLEMENTED:

03-17-83

SUMMARY DATE:

08-26-83

REVISION:

2

### FIRE PUMP P-39B RELOCATION

#### Summary:

This PC/M will relocate fire pump P-39B and related fire protection piping to make room for the new 750,000 gallon raw water storage tank.

#### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety question.

#### Affected Drawings:

5610-M-100,101,103  
5610-M-201,300,301,303  
5610-C-17,100  
5610-M-10,198  
5610-E-181

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-121

PC/M CLASSIFICATION: NNS

UNIT: 3

IMPLEMENTED: 08-05-82

SUMMARY DATE: 12-06-82

REVISION: 0

### ROD POSITION INDICATION SYSTEMS POWER SUPPLY

#### Summary:

The PC/M provided for an automatic transfer of RPSI power from the normal inverter source to a backup 120 Volt A/C source fed from the non-vital bus of "A" (3BO5) MCC. This transfer will be effected in 1/2 of a second which is fast enough to prevent a turbine runback.

#### Safety Evaluation:

No new possibilities for malfunction of equipment have been added and the margin of safety is not affected. Thus, the modification is not nuclear safety related and is not considered to involve an unreviewed safety question.

#### Affected Drawings:

See attached sheet

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

1608.1, 1604.9, 1804.1, 1807.4, 1604.8, 1607.10



PLANT CHANGE/MODIFICATION 82-122

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 09-24-82

SUMMARY DATE: 12-06-82

REVISION: 0

### ROD POSITION INDICATION SYSTEMS POWER SUPPLY

#### Summary:

The PC/M provided for an automatic transfer of RPSI power from the normal inverter source to a backup 120 Volt A/C source fed from the non-vital bus of "A" (3BO5) MCC. This transfer will be effected in 1/2 of a second which is fast enough to prevent a turbine runback.

#### Safety Evaluation:

No new possibilities for malfunction of equipment have been added and the margin of safety is not affected. Thus, the modification is not nuclear safety related and is not considered to involve an unreviewed safety question.

#### Affected Drawings:

See attached sheet

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

1608.1, 1604.9, 1804.1, 1807.4, 1604.8, 1607.10

PLANT CHANGE/MODIFICATION 82-139

PC/M CLASSIFICATION: NNS/QAQC

UNIT: 4

IMPLEMENTED: 11-9-82

SUMMARY DATE: 11-15-82

REVISION: 0

CRDM HVAC DUCT

Summary: This Pc/M provided the replacement of bolts in the Reactor Head HVAC duct with quick-acting pulldown clamps making it easier to remove, yet it will not affect the pressure rating of the duct work. The removal and installation of these bolts constitutes a large radiation dose at each reactor head removal and reinstallation.

Safety Evaluation: The CRDM Cooling System is non-safety related and is not required for safe shutdown of the reactor during any postulated accident conditions. Operation of the system was not affected by changing the closure arrangement of the hinges. Changes made to this system did not increase any margin of safety or probability of accident, in fact, it improved the CRDM Cooling System because it decreased worker exposure.

Affected Drawings:

5610-M-94

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

MP 1407.2

MP 1407.17

PLANT CHANGE/MODIFICATION <u>82-142</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>05-23-83</u>
	SUMMARY DATE:	<u>06-03-83</u>
	REVISION:	<u>1</u>

## REPLACEMENT OF UNIT AUXILIARY TRANSFORMER

### Summary:

This PC/M replaced the existing Unit #4 auxiliary transformer with a new transformer with better short circuit withstand capabilities and better cooling.

### Safety Evaluation:

Since this PC/M is NNS and its design insured minimum interfaces with safety related equipment, it does not involve an unreviewed safety question 1) with the probability of occurrence of an accident previously evaluated in the FSAR, 2) with respect to the possibility of an accident of a different type than any analyzed in the FSAR, or 3) with respect to the possibility of malfunction of a different type than analyzed in the FSAR.

### Affected Drawings:

5610-E-28 Sh 26/82-142  
5610-E-361A/82-142

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

9204.1  
9207.1  
9208.1  
9900

PLANT CHANGE/MODIFICATION <u>82-147</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>3 &amp; 4</u>
	IMPLEMENTED:	<u>05-26-83</u>
	SUMMARY DATE:	<u>08-26-83</u>
	REVISION:	<u>1</u>

## **RAD 6304 PLANT VENT STACK SAMPLE NOZZLE MODIFICATION AND RELOCATION**

### **Summary:**

This modification consisted of modifying the existing sample nozzle for RAD 6304 to meet the requirements of NUREG 0737. The existing sample nozzle inlet was made smaller and moved to a higher point on the plant vent stack to justify not having an isokinetic sampling system.

### **Safety Evaluation:**

This is a non-nuclear safety related design change. The plant vent stack sample nozzle being modified and relocated provides a sample to RAD 6304. RD-4-11 and RD-4-12 provide backup to RAD 6304. RAD 6304 is a wide range noble gas radiation monitor which provides indication of radiation levels in the plant vent stack. The failure or malfunction of this sample nozzle will not affect safety related systems, components, and structures and is not required to achieve safe shutdown or mitigate the consequences of a LOCA.

### **Affected Drawings:**

5610-M-401B-41-4  
5610-C-568

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### **Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-151

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-07-83

SUMMARY DATE:

08-26-83

REVISION:

1

**MODIFICATION TO COMPONENT COOLING WATER SYSTEM (O.C.) PROBLEM CCW-26**

**Summary:**

This modification consisted of modifying the pipe supports in the component cooling water system (O.C.) to comply with NRC LE Tech Bulletin 79-14.

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:**

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION <u>82-155</u>	PC/M CLASSIFICATION:	<u>NS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>06-06-83</u>
	SUMMARY DATE:	<u>08-26-83</u>
	REVISION:	<u>1</u>

**MODIFICATION TO COMPONENT COOLING WATER SYSTEM (O.C.) PROBLEM CCW-18**

**Summary:**

This modification consisted of modifying the pipe supports in the component cooling water system (O.C.) (per NRC L.E Tech Bulletin 79-14).

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

06



PLANT CHANGE/MODIFICATION 82-159

PC/M CLASSIFICATION: NS

UNIT: 3&4

IMPLEMENTED: 08-09-82

SUMMARY DATE: 08-16-82

REVISION: 0

## APPENDIX "R" EMERGENCY LIGHTING

### Summary:

This PC/M added 17 new emergency lighting units. These lighting units were required to meet NRC Appendix "R" requirements.

### Safety Evaluation:

This PC/M is nuclear safety related but did not involve an unreviewed safety question. Due to their seismic mounting and location, these lights propose no danger to safety equipment. The probability of occurrence or consequences of a design basis accident or malfunction of equipment previously evaluated in the FSAR will not be increased by the implementation of this PC/M. No margin of safety as described in the Technical Specifications was decreased by this PC/M.

### Affected Drawings:

5610-E-215  
5610-E-216  
5610-E-219  
5610-E-220  
5610-E-223  
5610-E-230  
5610-E-231

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5610-E-236  
5610-E-237  
5610-E-242  
5610-E-307 Sh. 1, 3, 6, 14, 15 and 27

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-160

PC/M CLASSIFICATION: NNS

UNIT: 3&4

IMPLEMENTED: 07-30-82

SUMMARY DATE: 08-09-82

REVISION: 0

REMOVE LIGHT POLE NO. 514

Summary:

This modification involved the removal of Light Pole No. 514 located north of the Bulk Storage Building and re-aiming of the flood lights (Nos. 296 and 96) on the front of the Bulk Storage Building.

Safety Evaluation:

This CPWO is non-nuclear safety related and does not involve an unreviewed safety question. It did not affect any safety related equipment nor did it create or change any possibilities of accidents as described in the FSAR. No margin of safety as defined in the Tech. Specs. was decreased.

Affected Drawings:

D-73079 NIS \*  
5177-067-E-25 Sh. 2 NIS  
5177-067-E-26 Sh. 2 NIS  
5177-067-E-28 Sh. 2 NIS  
5177-067-E-29 NIS  
4675-E-100 NIS

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-166

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-07-83

SUMMARY DATE:

08-26-83

REVISION:

1

**MODIFICATION TO CHEMICAL AND VOLUME CONTROL SYSTEM (O.C.) CVCS-2**

**Summary:**

This modification consisted of modifying the pipe supports in the chemical and volume control system (O.C.) (per NRC I.E Tech Bulletin 79-14).

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-178

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 07-27-82

SUMMARY DATE: 08-06-82

REVISION: 0

### S/G LOOSE PARTS MONITOR INSTALLATION

#### Summary:

This PC/M installed a TEC Audio Loose Parts Monitor System on the Unit 4 steam generators. It utilizes a single piezoelectric crystal on each steam generator to detect the audio noise of metal impact. The signal processing equipment is contained in 4QR61 in the control room NIS racks. An alarm annunciator is connected on panel G. This was necessary to monitor loose parts movement of potential material on the secondary side of the steam generators.

#### Safety Evaluation:

This modification is not nuclear safety related and does not involve an unreviewed safety question. The small size of the components does not present any hazard or possibility of accident other than those analyzed in the FSAR. No margin of safety was decreased as defined in the Tech. Specs.

#### Affected Drawings:

5610-E-424A  
5610-E-481A

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

OP 0208.8

PLANT CHANGE/MODIFICATION 82-186

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

03-10-83

SUMMARY DATE:

08-26-83

REVISION:

2

## FISCHER & PORTER TRANSMITTER REPLACEMENT

### Summary:

This PC/M replaced existing F&P transmitters with Rosemount Model 1153 units.

### Safety Evaluation:

Since this PC/M modification is only for transmitter replacement and the new locations are approximately the same as the existing, it does not change the previous design. Therefore, the replacement does not change the design function of the circuitry and a malfunction would cause the same results as a malfunction of the presently installed transmitters. Therefore, the probability or consequences of an accident previously evaluated in the FSAR are not increased. An accident of a different type cannot be created.

### Affected Drawings:

EPP-C-8295-001, 002,  
003, 004, 005  
Instrument Index

### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION	CPWO <u>82-187</u>	PC/M CLASSIFICATION:	<u>NS</u>
		UNIT:	<u>3</u>
		IMPLEMENTED:	<u>06-15-83</u>
		SUMMARY DATE:	<u>06-23-83</u>
		REVISION:	<u>0</u>

### REPAIR 3B ICW BASKET STRAINER DRAIN SPOOL

#### Summary:

This modification provided for the fabrication of a new spool on the 3B ICW basket strainer to replace the existing one which was leaking.

#### Safety Evaluation:

The field fabricated spool will meet or exceed the standards of the leaking cast iron spool it is replacing; therefore, this change does not involve an unreviewed safety question as it does not:

- a) Increase the probability of an accident as reviewed in the FSAR.
- b) Increase the probability of an equipment malfunction.
- c) Create the possibility of an accident type than that analyzed in the FSAR.
- d) Decrease any margin of safety discussed in the Technical Specifications bases.

#### Affected Drawings:

5610-M-50

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-188  
(CPWO)

PC/M CLASSIFICATION:	<u>NNS</u>
UNIT:	<u>3 &amp; 4</u>
IMPLEMENTED:	<u>09-09-82</u>
SUMMARY DATE:	<u>05-05-83</u>
REVISION:	<u>1</u>

**LAUNDRY ROOM POWER SUPPLY BREAKER 0877**

**Summary:**

This CPWO returns breaker 0877 to a spare status. Previously, this breaker had been tagged out indefinitely.

**Safety Evaluation:**

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

**Affected Drawings:**

Breaker List  
(Breaker 0877)

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-190

PC/M CLASSIFICATION: NS

UNIT: 3

IMPLEMENTED: 08-06-82

SUMMARY DATE: 10-04-82

REVISION: 0

CONTAINMENT PURGE VALVE CV 2602

Summary:

This PC/M involved welding a nut on the cylinder plate of the purge valve. This was necessary as the threads on the cylinder plate were failing.

Safety Evaluation:

This PC/M was nuclear safety related but did not involve an unreviewed safety question. The addition of the nut did not increase the probability of an accident as reviewed in the FSAR nor did it create any new possibilities of accidents not reviewed in the FSAR. No margin of safety as defined in the Tech Specs was decreased.

Affected Drawings:

5610-M83-1-3  
5610-M83-2-3

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-192

PC/M CLASSIFICATION:

NNS

UNIT:

4

IMPLEMENTED:

05-23-83

SUMMARY DATE:

06-03-83

REVISION:

1

## RCP MOTOR OVERHAUL AND LIFTING TRUNNIONS

### Summary:

This PC/M provides for the addition of RCP motor lifting trunnions. This will facilitate handling of RCP motors.

### Safety Evaluation:

The probability of occurrence or the consequences of an accident or malfunction of equipment important to the safety of the plant, previously evaluated in the FSAR, has not been increased. There is no possibility of an accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this PC/M does not pose any unreviewed safety questions.

### Affected Drawings:

None

### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

MP 1107.1

MP 1107.3

MP 1107.4

PLANT CHANGE/MODIFICATION 82-193

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-14-83

SUMMARY DATE:

08-26-83

REVISION:

1

**MODIFICATION TO COMPONENT COOLING WATER SYSTEM (O.C.) CCW-22**

**Summary:**

This modification consisted of modifying the pipe supports in the component cooling water system (O.C.) to comply with NRC LE Tech Bulletin 79-14.

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-194

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-14-83

SUMMARY DATE:

08-26-83

REVISION:

1

**MODIFICATION TO COMPONENT COOLING WATER SYSTEM (O.C.) CCW-23**

**Summary:**

This modification consisted of modifying the pipe supports in the component cooling water system (O.C.) to comply with NRC LE Tech Bulletin 79-14.

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-204

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 03-08-83

SUMMARY DATE: 03-31-83

REVISION: 0

### RCA RADIATION CONTROL AREA ACCESS POINT GUARDHOUSE

#### Summary:

This PC/M provided for the relocation of the RCA access point, which is located adjacent to the west side of the control building, to be moved approximately 30 feet to the south. Relocation was required because the lower floor of the control building is being converted into a computer room.

#### Safety Evaluation:

The RCA access point guardhouse does not perform a nuclear safety related function and it does not interact with any safety related components, systems or structures. The probability of occurrence or the consequences of design basis accident or malfunction of equipment important to the safety of the plant has not increased; therefore, it does not pose an unreviewed safety question.

#### Affected Drawings:

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5177-067-E-10  
5610-C-2  
5610-C-8  
5610-C-13  
5610-E-59  
5610-E-71  
5610-E-256  
5610-M-56  
5610-M-214  
5610-TE-4072

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-210

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

06-15-83

REVISION:

1

## CONTAINMENT PURGE VALVE LEAK TEST

### Summary:

This modification consisted of installing a leak test connection outside containment between valves POV 4-2600 and POV 4-2601 and between valves POV 4-2602 and POV 4-2603. The modification also consisted of removing the leak test connections inside containment between the above mentioned valves. This modification will permit leak testing the containment purge valves at any time.

### Safety Evaluation:

This modification does not involve an unreviewed safety question as this modification does not affect, create or increase the probability of occurrence of any accident/malfunction already addressed, or new, in the FSAR. Furthermore, this modification does not decrease any margin of safety discussed in the Technical Specifications.

### Affected Drawings:

5610-M-11 Sh. 1  
5610-M-89  
5610-M-90  
5610-M-92  
5610-M-314 Sh. 297  
5610-M-314 Sh. 298

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-211 (CPWO) PC/M CLASSIFICATION: NNS  
UNIT: 3  
IMPLEMENTED: 03-10-82  
SUMMARY DATE: 04-28-83  
REVISION: 0

## REPLACEMENT OF HAGAN RECORDERS

### Summary:

This modification replaced existing Hagan rod position/insertion indicator recorders TR-409 A, B, C, D with ones from Tracor Westronics, improving reliability on the drive and recorder inking system.

### Safety Evaluation:

This modification is non-nuclear safety related with no change regarding chances of malfunction or affecting any previously evaluated in the FSAR. It poses no unreviewed safety question.

### Affected Drawings:

5610-M-311  
5610-M-301 Sh. 1, 13  
5610-M-430-24  
5610-M-430-25  
5610-M-301-45 Sh. 6  
5610-M-301-45 Sh. 7

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-212 (CPWO) PC/M CLASSIFICATION: NNS  
UNIT: 4  
IMPLEMENTED: 03-07-83  
SUMMARY DATE: 04-28-83  
REVISION: 0

### REPLACEMENT OF HAGAN RECORDERS

#### Summary:

This modification replaced existing Hagan rod position/insertion indicator recorders TR-409 A, B, C, D with ones from Tracor Westronics, improving reliability on the drive and recorder inking system.

#### Safety Evaluation:

This modification is non-nuclear safety related with no change regarding chances of malfunction or affecting any previously evaluated in the FSAR. It poses no unreviewed safety question.

#### Affected Drawings:

5610-M-311  
5610-M-301 Sh. 1, 13  
5610-M-430-24  
5610-M-430-25  
5610-M-301-45 Sh. 6  
5610-M-301-45 Sh. 7

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-213

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-23-83

SUMMARY DATE:

07-05-83

REVISION:

0

**MODIFICATION TO SAFETY INJECTION & RESIDUAL HEAT REMOVAL SYSTEMS (LC.)**  
**PER I.E. BULLETIN 79-14 (052)**

**Summary:**

This PC/M consisted of modifying the pipe supports in the Safety Injection and Residual Heat Removal Systems inside containment to comply with NRC I.E. Bulletin 79-14.

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-216

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

07-05-83

REVISION:

0

MODIFICATION TO CHEMICAL AND VOLUME CONTROL SYSTEM (LC.) PER I.E. BULLETIN 79-14 (CVCS-28)

Summary:

This PC/M modified the pipe supports in the Chemical and Volume Control System inside containment to comply with NRC I.E. Bulletin 79-14.

Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-218

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-10-83

SUMMARY DATE:

07-05-83

REVISION:

0

MODIFICATION TO WASTE DISPOSAL SYSTEM (LC.) PER I.E. BULLETIN 79-14 (WD-9)

Summary:

This PC/M modified the pipe supports in the Waste Disposal System inside containment to comply with NRC I.E. Bulletin 79-14.

Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-219

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

03-08-83

SUMMARY DATE:

05-23-83

REVISION:

1

## REACTOR CAVITY AND TRANSFER LINER REPAIRS

### Summary:

The subject PC/M was for the application of a weld seam sealant on all seam welds, plug welds and any other linear interruptions in the liner. This work is to prevent leakage from the refueling cavity.

### Safety Evaluation:

This nuclear safety related PC/M added a sealant to possible leakage points in the cavity liner. No safety related equipment or function(s) is degraded by this work. The design and structural integrity of the liner is not changed as a result of this work. Thus, no increase in the probability of an accident or the creation of a different type of accident results and no unreviewed safety question exists.

### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-240

PC/M CLASSIFICATION: NS

UNIT: 4

IMPLEMENTED: 05-10-83

SUMMARY DATE: 07-05-83

REVISION: 0

MODIFICATION TO COMPONENT COOLING WATER SYSTEM (LC.) PER I.E. BULLETIN 79-14 (CCW-44)

Summary:

This PC/M modified the pipe supports in the Component Cooling Water System inside containment to comply with NRC I.E. Bulletin 79-14.

Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-243

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-23-83

SUMMARY DATE:

07-05-83

REVISION:

0

**MODIFICATION TO SAFETY INJECTION AND RESIDUAL HEAT REMOVAL SYSTEMS  
(LC) PER I.E. BULLETIN 79-14 (054)**

**Summary:**

This PC/M modified the pipe supports in the Safety Injection and Residual Heat Removal Systems inside containment to comply with NRC I.E. Bulletin 79-14.

**Safety Evaluation:**

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

**Affected Drawings:**

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

**Affected Procedures:**

None

PLANT CHANGE/MODIFICATION 82-248

PC/M CLASSIFICATION: NS

UNIT: 3

IMPLEMENTED: 09-17-82

SUMMARY DATE: 09-21-82

REVISION: 0

### SPARE PENETRATION REPAIR

#### Summary:

This PC/M consisted of welding plates on the electrical penetration to insure containment integrity. This was done to meet NRC requirements.

#### Safety Evaluation:

This PC/M is nuclear safety related but did not involve an unreviewed safety question because this modification actually decreased the number of penetrations in use. No margin of safety as described by the Technical Specifications was decreased. No possibility of accidents has been increased or created.

#### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

OP 13404.2



PLANT CHANGE/MODIFICATION 82-273

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 03-28-83

SUMMARY DATE: 04-28-83

REVISION: 0

MOISTURE SEPARATOR REHEATER MODIFICATION

Summary:

This PC/M involved installing baffle plates to eliminate steam channeling and bypassing. This was necessary to improve the overall performance of the MSRH units.

Safety Evaluation:

This PC/M is not nuclear safety related. It involves the MSRH units which are located between the HP and LP turbines. These MSRH units serve no safety related function nor are they used to mitigate the consequences of any accident analyzed in the FSAR.

Affected Drawings:

5610-M-3-212 Rev. 6  
5177-085-M0748-1-3  
5177-085-M0748-16-1

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82-280

PC/M CLASSIFICATION: NNS

UNIT: 3

IMPLEMENTED: 10-24-82

SUMMARY DATE: 11-3-82

REVISION: 0

UNIT 3 MAIN STEAM CHECK VALVE (ROCKSHAFT BR6. STEAM LEAK)

Summary: A brace was installed on 3B main steam check valve bearing cover to insure that bearing is properly secured and therefore restoring strength to the closure.

Safety Evaluation: The CPWO was Nuclear safety related, however, it did not involve an unreviewed safety question. No changes were made to any component which would have affected the FSAR specifications.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures: None

PLANT CHANGE/MODIFICATION 82-282

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

06-02-83

SUMMARY DATE:

07-05-83

REVISION:

0

MODIFICATION TO MAIN STEAM SYSTEM (O.C.) PER I.E. BULLETIN 79-14 (MS-1)

Summary:

This PC/M modified the pipe supports in the Main Steam System outside containment to comply with NRC I.E. Bulletin 79-14.

Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. The modification and analysis has ensured that the design criteria of the original piping system design documents have been met and no accident or malfunction probability increased.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION	<u>82-288</u>	PC/M CLASSIFICATION:	<u>NNS</u>
		UNIT:	<u>3</u>
		IMPLEMENTED:	<u>05-02-83</u>
		SUMMARY DATE:	<u>05-23-83</u>
		REVISION:	<u>0</u>

## AIR EJECTOR DISCHARGE SPING & RADIATION MONITOR PIPING MODS

### Summary:

This modification replaced all 90° elbows with long radius tubing in the sample line. It also replaced the moisture separator with a drip leg and provided a condensate sample container. The 90° elbows caused particulate plate-out and moisture to carry over into the radiation monitor.

### Safety Evaluation:

This PC/M is non-nuclear safety related and has no interconnection with any safety related system.

### Affected Drawings:

5177-112-J105

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

OP 11100, OP 11104.1, MP 11107.1, ONOP 11108.1

PLANT CHANGE/MODIFICATION CPWO 82-291 PC/M CLASSIFICATION: NS  
UNIT: 3  
IMPLEMENTED: 12/19/82  
SUMMARY DATE: 01-19-83  
REVISION: 0

INSTALL LEAK TIGHT CAPS ON  
RADIOACTIVE DRAINS IN CCW PUMP ROOM

Summary:

This CPWO provided leak tight caps on certain radioactive drains in the Component Cooling Water Pump Room for Unit 3. By installing leak tight caps on the radioactive drains in the Component Cooling Water Room, the potential of contaminated water entering storm drain system was minimized.

Safety Evaluation:

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant previously evaluated in the FSAR, has not been increased.

Affected Drawings:

5610-C-13  
5610-M-75  
5610-M-77  
5610-M-80

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

- \* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82-292 PC/M CLASSIFICATION: NS  
UNIT: 4  
IMPLEMENTED: 12/21/82  
SUMMARY DATE: 01-19-83  
REVISION: 0

INSTALL LEAK TIGHT CAPS ON  
RADIOACTIVE DRAINS IN CCW PUMP ROOM

Summary:

This CPWO provided leak tight caps on certain radioactive drains in the Component Cooling Water Pump Room for Unit 3. By installing leak tight caps on the radioactive drains in the Component Cooling Water Room, the potential of contaminated water entering storm drain system was minimized.

Safety Evaluation:

The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant previously evaluated in the FSAR, has not been increased.

Affected Drawings:

5610-C-13  
5610-M-75  
5610-M-77  
5610-M-80

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION	CPWO <u>82-293</u>	PC/M CLASSIFICATION:	<u>NNS</u>
		UNIT:	<u>4</u>
		IMPLEMENTED:	<u>02-21-83</u>
		SUMMARY DATE:	<u>08-26-83</u>
		REVISION:	<u>1</u>

## H<sub>2</sub> GAS PIPING TO TURBINE GENERATOR

### Summary:

This modification replaced the carbon steel hydrogen lines to the turbine generator with stainless steel type 304 schedule 40 tubing. The carbon steel pipes were corroded and needed replacing.

### Safety Evaluation:

This modification was non-nuclear safety with no unreviewed safety question as it does not increase or affect the probability or consequence of an accident evaluated in the FSAR or malfunction of any equipment important to the safety of the plant. This change does not decrease the margin of safety discussed in the Technical Specifications Basis.

### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None



PLANT CHANGE/MODIFICATION CPWO 82-294

PC/M CLASSIFICATION: NS

UNIT: 4

IMPLEMENTED: 11-18-82

SUMMARY DATE: 12-06-82

REVISION: 0

EMERGENCY DIESEL "B" LOCK-OUT RELAY CIRCUIT

Summary:

This CPWO consisted of the replacement of the existing loss of excitation relay with a different model no. relay. The existing relay (in-use) is no longer manufactured, the new relay to be installed per this modification is the G.E. recommended electrically equivalent replacement.

Safety Evaluation:

This modification does not involve an unreviewed safety question as it does not affect, create or increase the probability of occurrence of any accident/malfunction already addressed, or new, in the FSAR.

Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82-295

PC/M CLASSIFICATION: NS

UNIT: 3 & 4

IMPLEMENTED: 11-18-82

SUMMARY DATE: 11-23-82

REVISION: 0

POST ACCIDENT SAMPLE SYSTEM PCV 6449

Summary:

The CPWO replaces a pressure regulator with Saphire seat with one with big stainless steel seat and better regulating characteristics. Therefore, better pressure control and system operation will be achieved.

Safety Evaluation:

This replacement did not affect nuclear safety nor did it involve an unreviewed safety question. The installation of the substitute pressure regulator does not create possibility of an accident, nor does it change any equipment required to operate to mitigate the consequences of an accident previously analyzed for the FSAR.

Affected Drawings:

5177-111-M-3 (N.I.S.)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82- 299 PC/M CLASSIFICATION: NNS  
UNIT: 3  
IMPLEMENTED: 11-26-82  
SUMMARY DATE: 12-2-82  
REVISION: 0

### VEEDER ROOT COUNTER INSTALLATION

#### Summary:

This CPWO involved the installation of a Veeder-Root counter to monitor the operations of the G. E. type 56C (negative sequence) relay using the 1 and 11 contact of the relay. In relay cabinet 3C106.

#### Safety Evaluation:

This modification was not nuclear safety related as it does not affect any safety related systems or features in the plant. All previous applications of this relay will not be affected. Furthermore, it does not involve an unreviewed safety question as this modification does not affect, create, or increase any accident/malfunction already addressed, or new in the FSAR.

#### Affected Drawings:

5610-E-571  
5710-E-28 Sh. 160

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system  
\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82- 300 PC/M CLASSIFICATION: NNS  
UNIT: 4  
IMPLEMENTED: 11-26-82  
SUMMARY DATE: 12-2-82  
REVISION: 0

### VEEDER ROOT COUNTER INSTALLATION

#### Summary:

This CPWO involved the installation of a Veeder-Root counter to monitor the operations of the G. E. type 56C (negative sequence) relay using the 1 and 11 contact of the relay. In relay cabinet 3C106.

#### Safety Evaluation:

This modification was not nuclear safety related as it does not affect any safety related systems or features in the plant. All previous applications of this relay will not be affected. Furthermore, it does not involve an unreviewed safety question as this modification does not affect, create, or increase any accident/malfunction already addressed, or new in the FSAR.

#### Affected Drawings:

5610-E-571  
5710-E-28 Sh. 160

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

PLANT CHANGE/MODIFICATION	<u>82-302</u>	PC/M CLASSIFICATION:	<u>NS</u>
		UNIT:	<u>4</u>
		IMPLEMENTED:	<u>05-01-83</u>
		SUMMARY DATE:	<u>05-23-83</u>
		REVISION:	<u>1</u>

## REMOVAL OF CONTAINMENT PRESSURE WIDE RANGE INSTRUMENTATION

### Summary:

The purpose of this modification was to provide documentation and drawing changes necessary for the removal of transmitters PT-1622 and PT-1623 and their power supplies, and pressure indicators PI-1622 and PI-1623. In addition, the DDPS inputs for containment pressure monitoring from the 1622 and 1623 loops will also be deleted. New pressure transmitters were added by PC/M 79-132A and 133A.

### Safety Evaluation:

This removal will not involve an unreviewed safety question because no system functions will be affected. PC/M 79-132A and 133A have added redundant containment pressure monitoring; therefore, the probability of occurrence or the consequence of an accident or malfunction important to safety previously evaluated in the FSAR has not been increased. For the same reasons, no possibility for an accident or malfunction of a different type from any evaluated previously in the FSAR has been created by this modification.

### Affected Drawings:

5610-M-11  
5610-M-34A  
Aee Appendix A

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system  
\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION 82-305

PC/M CLASSIFICATION: NNS

UNIT: 4

IMPLEMENTED: 03-28-83

SUMMARY DATE: 04-28-83

REVISION: 0

INSTALLATION OF THERMOWELLS ON LP TURBINE CROSSOVER PIPING

Summary:

This PC/M installed thermowells on each MSR outlet pipe just above the existing platform to make the gathering of temperature data possible.

Safety Evaluation:

This is a non-nuclear safety related PC/M. The installation of thermowells on this piping does not affect any safety related equipment or function.

Affected Drawings:

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

5177-262-J564  
5177-262-J200-T1  
5177-262-T200-T2  
5177-262-J200-T3  
5610-M-1/80-117 P&ID Steam System

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 82-310 PC/M CLASSIFICATION: NNS  
UNIT: 4  
IMPLEMENTED: 01-18-83  
SUMMARY DATE: 02-02-83  
REVISION: 0

MODIFY GENERATOR P.T. CIRCUITS

Summary:

This CPWO involved a permanent modification of the P.T. circuits as reference in CPWO 82-48. It involved re-wiring the P.T. circuits and it replaced Copper Links, that had been installed previously with fuses.

Safety Evaluation:

This change was not safety related, as it does affect any safety related system or feature in the plant. Furthermore, it does not involve an unreviewed safety question as this modification does not affect, create, or increase any accident/malfunction already addressed, or new in the FSAR.

Affected Drawings:

5610-E-369-A (Rev. 3)  
5610-E-17 (Rev. 12)  
5610-E-570 (Rev. 1)  
5610-E-576 (Rev. 1)  
5610-E-27-14 (Rev. 10)  
5610-E-390A (Rev. 10)

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None



PLANT CHANGE/MODIFICATION 82-313

PC/M CLASSIFICATION:

NNS/QA-QC

UNIT:

4

IMPLEMENTED:

05-02-83

SUMMARY DATE:

06-08-83

REVISION:

1

## ALT GAS SUPPLY TO FLUX MAPPER PURGE SYSTEM

### Summary:

The subject PC/M modified the Flux Mapper Purge System to use a permanently piped N<sub>2</sub> gas supply. The piping added connects into the Loop C accumulator N<sub>2</sub> supply (cover gas) and is routed to the old CO<sub>2</sub> bottle connection. The old regulator was used. This prevents having to change out the CO<sub>2</sub> bottle for refilling.

### Safety Evaluation:

The subject PC/M is non-safety related. The equipment used is the same as that already in use in similar applications elsewhere in the plant and is designed to prevent any interaction/degradation of safety related equipment in the area. QA-QC is required. Thus, the probability for an accident or possibility for creating a different type of accident is not changed or results, respectively, over those previously evaluated in the FSAR.

### Affected Drawings:

JPE-TPN-82-313-001  
& 002 (R1) NIS  
5610-T-E-4510 Sh. 2  
5610-M-470-5 Sh. 3  
5610-M-470-45 Sh. 3

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION <u>82-315</u>	PC/M CLASSIFICATION:	<u>NNS</u>
	UNIT:	<u>4</u>
	IMPLEMENTED:	<u>02-15-83</u>
	SUMMARY DATE:	<u>05-05-83</u>
	REVISION:	<u>1</u>

## MANIPULATOR CRANE MODIFICATION

### Summary:

This PC/M replaced the manipulator crane electrical equipment, MCC, control console, bridge, trolley, and monorail wiring, the bearing for the gripper hoist upper and lower cable sheaves, and the transfer system bushing. It also added an underload safety circuit and tube down gripper disengaging permissive circuit, a redundant full up safety circuit, position scales, and a TV system.

### Safety Evaluation:

All supports and components have been secured, failure of supports have been considered, and their possible effects are below the upper limit accident reviewed in the FSAR. The probability of occurrence or the consequences of a design basis accident or malfunction of equipment important to the safety of the plant has not been increased. There is no possibility of accident or malfunction different than those previously evaluated. Therefore, it can be concluded that this modification does not pose an unreviewed safety question.

### Affected Drawings:

JPE-82315-001 thru 017  
JPE-E-82315-01 thru 06

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

OP 16200, 16204.1, and 16207.1

PLANT CHANGE/MODIFICATION CPWO 82-319 PC/M CLASSIFICATION: NNS  
UNIT: 3 & 4  
IMPLEMENTED: 01-10-83  
SUMMARY DATE: 01-14-83  
REVISION: 0

SERVICE & DEMIN. WATER TO INTAKE AREA

Summary:

Auxiliary power upgrade construction requires that the piping which supplies service and treated water to the intake area be rerouted. This CPWO outlines a method of providing service and treated water to the intake area on a temporary basis while the rerouting is performed.

Safety Evaluation:

The temporary rerouting uses the same size and material piping and uses the same primary and backup water supplies as the permanent setup. Therefore, this temporary modification does not involve an unreviewed safety concern.

Affected Drawings:

5610-M-7  
5610-T-E-4530 Sh. 1  
5610-T-E-4065 Sh. 1

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION 83-01

PC/M CLASSIFICATION: NS

UNIT: 3

IMPLEMENTED: 01-14-83

SUMMARY DATE: 08-26-83

REVISION: 1

TEMPORARY REPLACEMENT OF STATION BATTERY 3B (3D24)

Summary:

This change provided for replacement of Battery No. 3B with a temporary battery located in the Unit 4B Motor Control Center Room. The battery will be replaced with one having 1800 AMP-Hr (8 Hr-rating) compared to 648 AHR 7 Hr rating of the old one.

Safety Evaluation:

This change is consistent with applicable licensing and design criteria and standards. The change is temporary and only applies while Unit 4 is shutdown, and does not constitute an unreviewed safety question. The probability of an accident or malfunction is not increased.

Affected Drawings:

5177-E-858-1  
5177-A-130  
5177-E-302  
5177-C-103.1  
5610-E-756

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

OP 9600.1, OP 9604.1, OP 9608.1, OP 9654.2, OP 9659.2.

PLANT CHANGE/MODIFICATION CPWO 83-02

PC/M CLASSIFICATION: NNS

UNIT: 3 & 4

IMPLEMENTED: 02-03-83

SUMMARY DATE: 03-21-83

REVISION: 0

MODIFICATION OF PRESSURE SENSING LINE TO PCV 1050 AND 1051

Summary:

This CPWO consists of modifying the pressure sensing line to read PT-1025 output instead of vent header pressure. This will improve valve reliability and accuracy preventing bellows in controllers from being subjected to occasional vent header pressure surges.

Safety Evaluation:

This CPWO is non-nuclear safety related, not affecting any plant equipment or activity. In addition, this modification does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment nor reduce the margin of safety as defined in the basis of any technical specification. Therefore, it does not involve an unreviewed safety question.

Affected Drawings:

5610-TE-4517

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO 83-09 PC/M CLASSIFICATION: NNS  
UNIT: 3  
IMPLEMENTED: 01-19-83  
SUMMARY DATE: 08-26-83  
REVISION: 1

MOISTURE SEPARATOR/REHEATER STEAM INLET VALVE MODIFICATION

Summary:

This CPWO modified CV3-3710 and CV3-3713 which control the flow of steam into 3A & 3D moisture separator reheater. The modification consisted in removing the valve internals and placing a bottom cap on both top and bottom of the valve body. This voids these valves leaving the control of steam to be done by manually opening the corresponding MOVs, MOV-3-1431 and MOV-3-1434. This a temporary operation. These valves will be returned to normal once new/rebuilt internals for CV3-3710 - CV3-3713 are available.

Safety Evaluation:

This modification is not safety related as it does not affect any safety related system or feature in the plant; nor does it involve an unreviewed safety question.

Affected Drawings:

5610-TE-4061  
5610-E-29 Sh. 17  
\*5610-M-1

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

OP 0202.2, OP 0205.1



PLANT CHANGE/MODIFICATION 83-18

PC/M CLASSIFICATION:

NS

UNIT:

4

IMPLEMENTED:

05-23-83

SUMMARY DATE:

06-03-83

REVISION:

1

## ILRT CONTAINMENT PENETRATION FLANGE REPLACEMENT

### Summary:

This modification consisted of increasing the flange connection from 6" to 8" for Penetration No. 65. Penetration 65 is used for pressurizing and depressurizing the containment during the ILRT. Increasing the flange connection size allows increased flow rates and therefore, reduces the time required to conduct the ILRT.

### Safety Evaluation:

This modification brought Penetration No. 65 into agreement with existing design documents which have been previously evaluated for safety. For this reason, the modification does not involve an unreviewed safety question as this modification does not affect, create or increase the probability of occurrence of any accident/malfunction already addressed, or new, in the FSAR.

### Affected Drawings:

5610-M-175

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None



PLANT CHANGE/MODIFICATION 83-26 (CPWO) PC/M CLASSIFICATION: NNS  
UNIT: 3 & 4  
IMPLEMENTED: 04-04-83  
SUMMARY DATE: 04-28-83  
REVISION: 0

### WASTE GAS COMPRESSOR SWITCH MODIFICATION

#### Summary:

This modification provided a switch modification to the Waste Gas Compressor whereby if either or both compressors are in "auto" position, they will start automatically at the vent header high pressure setpoint and stop automatically at the low pressure setpoint. Thus eliminating the need to have them run continuously, cutting down maintenance.

#### Safety Evaluation:

This modification is non-nuclear safety related. It does not increase the probability of occurrence or the consequence of an accident or malfunction occurring nor create possibilities of an accident or malfunction not evaluated in the FSAR. Therefore, it does not involve an unreviewed safety question.

#### Affected Drawings:

Taylor Instruments  
Sk 60698W-20

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

OP 5503.1  
OP 5508.2  
OP 5530.1

PLANT CHANGE/MODIFICATION 83-38

PC/M CLASSIFICATION: NNS-OA/OC

UNIT: 4

IMPLEMENTED: 03-25-83

SUMMARY DATE: 04-28-83

REVISION: 0

RCP VIBRATION SENSORS MOUNTING BRACKET REPLACEMENT

Summary:

This modification replaced individual brackets for the RCP vibration pick-ups (3), with a single Westinghouse designed bracket on which all 3 probes will mount on. The existing brackets and vibration equipment were installed under PC/M 75-50. This PC/M just replaces the brackets. The new brackets provide a better mounting arrangement which improves accuracy/validity of vibration signals.

Safety Evaluation:

This modification is non-nuclear safety related with QA/QC. However, it does not affect, create or increase any accident/malfunction already addressed in the FSAR. Therefore, it does not involve an unreviewed safety question.

Affected Drawings:

Westinghouse  
Dwg. #618J713

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

Affected Procedures:

MP 1107.1

MP 1107.4

PLANT CHANGE/MODIFICATION CPWO  
83-58

PC/M CLASSIFICATION:

NS

UNIT:

3

IMPLEMENTED:

05-07-83

SUMMARY DATE:

06-21-83

REVISION:

0

## REACTOR TRIP AND TRIP BYPASS BREAKERS

### Summary:

This modification provided for the inspection of existing overcurrent relays and the removal of associated relays and brackets on the subject breakers as requested by the NRC.

### Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. No change in the probability of occurrence or consequence of an accident or equipment malfunction as previously analyzed in the FSAR. The margin of safety remains unchanged as per Technical Specifications.

### Affected Drawings:

None

**NOTE:** This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO  
83-59

PC/M CLASSIFICATION: NS  
UNIT: 4  
IMPLEMENTED: 05-07-83  
SUMMARY DATE: 06-21-83  
REVISION: 0

## REACTOR TRIP AND TRIP BYPASS BREAKERS

### Summary:

This modification provided for the inspection of existing overcurrent relays and the removal of associated relays and brackets on the subject breakers as requested by the NRC.

### Safety Evaluation:

This modification is nuclear safety related with no unreviewed safety question. No change in the probability of occurrence or consequence of an accident or equipment malfunction as previously analyzed in the FSAR. The margin of safety remains unchanged as per Technical Specifications.

### Affected Drawings:

None

NOTE: This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

### Affected Procedures:

None

PLANT CHANGE/MODIFICATION CPWO  
83-67

PC/M CLASSIFICATION:

NS

UNIT:

3 & 4

IMPLEMENTED:

05-13-83

SUMMARY DATE:

05-09-83

REVISION:

0

### AUXILIARY FEEDWATER SYSTEM CONTROL PANEL

#### Summary:

This modification involved the replacement of 6% amp fuses with 10 amp fuses at the auxiliary feedwater control panels C238, C239, C240 (fuse boxes). This was done to increase the rating to a higher amperage so as to handle the continuous current and prevent unwanted fuse failures.

#### Safety Evaluation:

This modification is safety related with no unreviewed safety question as this modification does not affect, create, or increase the probability of occurrence of any accident/malfunction already addressed or new in the FSAR.

#### Affected Drawings:

N15-5177-093-M021-75-2

#### NOTE:

This section may be affected by the drawing verification/update phase of the plant documentation update. A summary revision will be issued to document any changes.

NIS - Dwg. not in system

\* - Dwg. not included in PC/M package

#### Affected Procedures:

None

## (ii) PROCEDURE CHANGES

The following procedures were changed, reviewed, approved and reissued during the reporting period. The procedure changes are as described below and only those procedure changes constituting changes in the procedures as described in the Final Safety Analysis Report (FSAR) are reported. Minor or routine procedure changes not affecting procedures as described in the FSAR are not reported.

- I. In order to incorporate the requirements of Technical Specification Amendment 87 (Facility Operating License DPR for Unit 3) and Amendment 81 (Facility Operating License DPR-41 for Unit 4) which provide for redundancy in the residual heat removal system, changes and additions were made to the procedures listed below reflecting the new limiting conditions for operation and coolant loop definitions.

- a) Operating Procedure 0202.1: Reactor Startup, Cold Conditions to Hot Shutdown Conditions.

Date of Change: 9/30/82

- b) Operating Procedure 0204.2: Schedule of Periodic Tests, Checks, Calibrations and Operating Evolutions.

Date of Change: 9/30/82

- c) Operating Procedure 0205.1: Unit Shutdown, Full Load to Hot Shutdown Conditions.

Date of Change: 9/30/82

- d) Off-Normal Operating Procedure: Loss of Reactor Coolant Flow.

Date of Change: 9/30/82

- e) Operating Procedure 3204.1: Residual Heat Removal System - Periodic Test

Date of Change: 9/30/82

- f) Operating Procedure 3205.1: Isolation for Maintenance of Low Head Safety Injection Check Valves (875A, 875B and 875C).

Date of Change: 9/30/82

- g) Operating Procedure 3206.2: Residual Heat Removal System - Annual Test.

Date of Change: 9/30/82

- h) Operating Procedure 3206.3: Residual Heat Removal System Hydrostatic Test During Normal Unit Operation.

Date of Change: 9/30/82

- i) Maintenance Procedure 3207.1: RHR Pump Seal Replacement.

Date of Change: 1/6/83



- j) Maintenance Procedure 3207.2: RHR Pump Disassembly, Repair and Reassembly.  
Date of Change: 1/6/83
  - k) Maintenance Procedure 3207.4: RHR Motor Operated Stop Valves MOV-750 and MOV-751 Maintenance.  
Date of Change: 1/6/83
  - l) Maintenance Procedure 3207.8: Residual Heat Removal Pump Motor Overhaul and Maintenance.  
Date of Change: 1/6/83
  - m) Off-Normal Operating Procedure 3208.1: Malfunction of Residual Heat Removal System.  
Date of Change: 9/30/82
  - n) Operating Procedure 16002.6: Preparations and Precautions for Refueling Fuel Shuffle.  
Date of Change: 9/30/82
2. The issuance of Technical Specification Amendment 78 (Facility Operating License DPR-31 for Unit 3) and Amendment 72 (Facility Operating License DPR-41 for Unit 4) allowed removal of the Boron Injection Tank's boron concentration requirements and the three procedures listed below were affected. These procedures were modified accordingly.
- a) Operating Procedure 2500.1: Heat Tracing System - Normal Operation.  
Date of Change: 2/17/83
  - b) Maintenance Procedure 2507.1: Maintenance on Critical Heat Tracing Circuits.  
Date of Change: 3/18/83
  - c) Operating Procedure 4104.2: Engineered Safeguards and Emergency Power Systems - Integrated Test.  
Date of Change: 5/3/83
3. Technical Specification Amendment 70 (Facility Operating License DPR-31 for Unit 3) and Amendment 63 (Facility Operating License DPR-41 for Unit 4) were issued to incorporate some of the Lessons Learned Category A requirements into the Technical Specifications. Additions were made to the following procedure to reflect the new limiting conditions for operation for PORVs and associated block valves.
- a) Off-Normal Operating Procedure: Pressurizer Power Operated Relief System - (Reliefs and MOVs) - Malfunction.  
Date of Change: 2/17/83



4. During the upgrade of the auxiliary feedwater pump turbines, the two procedures listed below were temporarily changed to explain some of the special equipment configurations that existed.

- a) Operating Procedure 7300.3: Auxiliary Feedwater System - Operating Instructions.

Date of Change: January 10, 1983

- b) Operating Procedure 7304.1: Auxiliary Feedwater System - Periodic Test.

Date of Change: January 10, 1983.

(iii) TESTS AND EXPERIMENTS

This section contains the results and conclusions for special tests that were completed during the reporting period. Special tests still in progress at the end of the reporting period are also described.

<u>SPECIAL TEST NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT(S)</u>
82-07	Steam generator Thermal Output and RCS Flow Measurement.	3
82-08	Test of Charging Pump Performance Parameters	3 & 4
82-09	Determine Optimum Suction Accumulator Bladder Pressure	3 & 4
82-10	Analysis of Charging Pump Suction Stabilizer and Discharge Accumulator Performance	3 & 4
82-11	Determination of ICW Low Pressure Alarm Setpoint	3 & 4
82-12	Heat Tracing Special Test	3 & 4
82-13	Auxiliary Building Exhaust Air Flow	3 & 4
82-14	Test of 3A High Head Safety Injection Pump Breaker and Circuitry	3 & 4
82-15	3A MSR Metal Temperature Test	3
83-01	"B" Gas Decay Tank Relief Valve Test	Common

## Steam Generator Thermal Output and RCS Flow Measurement

### Background Information

This special test was conducted to measure the steam generator thermal output and RCS flow through the replacement steam generators on Unit 3 by using secondary calorimetrics and by closely monitoring various other parameters.

### Test Results

Steam generator thermal output and RCS flow for Unit 3 met all acceptance level criteria. Test results documentation is available through the Reactor Engineering Department.

### Safety Evaluation

The following considerations were analyzed:

I. With respect to an accident previously evaluated in the FSAR:

This test does not affect any accidents previously analyzed in the FSAR; therefore, the probability of occurrence of an accident or malfunction of equipment important to safety, previously evaluated in the FSAR, is not increased.

II. With respect to an accident of a different type than any evaluated previously:

This procedure involves data acquisition in a normal, steady state mode of operation. The procedure does not introduce the possibility of occurrence of an accident other than those previously analyzed in the FSAR.

III. With respect to the margin of safety as defined in Technical Specifications:

This procedure involves data acquisition at steady state, 100% power operation. This test will not reduce any margin of safety as defined in Technical Specifications.

SPECIAL TEST 82-08

UNITS 3 & 4

TEST OF CHARGING PUMP PERFORMANCE PARAMETERS

BACKGROUND INFORMATION:

This Special Test is designed to determine if the charging pump and associated controls are operating properly.

TEST RESULTS:

Test Ongoing

SAFETY EVALAUTION:

This Special Test does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety; it does not create the possibility of an accident or malfunction not previously evaluated; and the margin for safety as defined in the basis for Technical Specifications is not reduced.

SPECIAL TEST 82-09

UNITS 3 & 4

DETERMINATION OF OPTIMUM SUCTION  
ACCUMULATOR BLADDER PRESSURE

BACKGROUND INFORMATION:

This Special Test is designed to determine at what bladder pressure the charging pump suction accumulator will most effectively suppress pressure impulses.

TEST RESULTS:

Test Ongoing

SAFETY EVALUATION:

This Special Test does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety; it does not create the possibility of an accident or malfunction not previously evaluated; and the margin for safety as defined in the basis for Technical Specifications is not reduced.

SPECIAL TEST 82-10

UNITS 3 & 4

ANALYSIS OF CHARGING PUMP SUCTION STABILIZER  
AND DISCHARGE ACCUMULATOR PERFORMANCE

BACKGROUND INFORMATION:

This Special Test is designed to determine the effectiveness of the Charging Pump Suction Stabilizer and Discharge Accumulators at suppressing pressure pulsations.

TEST RESULTS:

Test Ongoing

SAFETY EVALUATION:

This Special Test does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety; it does not create the possibility of an accident or malfunction not previously evaluated; and the margin for safety as defined in the basis for Technical Specifications is not reduced.

**DETERMINATION OF ICW LOW PRESSURE ALARM SETPOINT****Background Information**

This test was designed to determine the minimum ICW discharge header pressure required to supply sufficient head for flow through the TPCW heat exchangers. Flow adjustments were made at the TPCW heat exchangers (CV-2201) while flow through the CCW heat exchangers was altered by as little as possible.

**Test Results**

Test results showed that at header pressures of 14 psig, the turbine plant heat exchangers began to lose flow level in the upper tubes. Such flow loss decreases heat transfer surface area in the turbine plant heat exchangers, thus decreasing their effectiveness in cooling the turbine plant cooling water. It was, therefore, determined that lowering the header pressure setpoint below the current setpoint of 15 psig would be undesirable as it degrades the performance of the turbine plant heat exchangers.

**Safety Evaluation**

Test personnel were in constant communication with RCOs to insure that temperatures of components cooled by TPCW remained within normal operating regions. The test was terminated and systems were returned to original condition upon receipt of any abnormal temperature alarms. The test was conducted under close surveillance as per Step 9.0 (Precautions and Limitations).

Therefore, this test does not involve an unreviewed safety question as it does not:

- a) Increase or affect the probability or consequences of an accident previously evaluated in the FSAR.
- b) Increase or affect the probability or consequences of malfunction of equipment important to safety previously evaluated in the FSAR.
- c) Create the possibility of an accident or a different type than any analyzed in the FSAR.
- d) Decrease any margin of safety discussed in the Technical Specification basis.



## Heat Tracing Special Test

### Background Information

This special test was designed to evaluate the impact of limiting the heat tracing alarms to critical circuits only.

### Test Results

This test decreased the number of alarms considerably and increased the operator's awareness of critical heat tracing circuits troubles.

### Safety Evaluation

The critical heat tracing circuits will not be affected by blocking the alarm features of the non-critical circuits, therefore, this test is not nuclear safety related and it does not affect, create, or increase any accident/malfunction already addressed, or new, in the FSAR.

Special Test 82-13

Units 3 & 4

AUXILIARY BUILDING EXHAUST AIR FLOW

BACKGROUND INFORMATION:

This special test was designed to provide information on the air turnover rate for most of the rooms and open areas of the Auxiliary building.

TEST RESULTS:

Thirteen rooms were found to have less than the five air exchangers per hour as stated in the FSAR.

Attempts to increase the ventilation in these rooms are in progress as per the recommendations made by the subject special test.

SAFETY EVALUATION:

The HVAC System in the Auxiliary Building is non-safety related; therefore this special test is not nuclear safety related as it does not affect any safety related system or feature in the plant. Furthermore, it does not affect, create, or increase any accident/malfunction already addressed, or new, in the FSAR.

## Test of 3A High Head Safety Injection Pump Breaker and Circuitry

### Background Information

This special test was designed to determine the location of the failure in the 3A high head safety injection pump breaker or circuitry which has caused the pump to fail to start on two occasions.

### Test Results

Breaker 3AA13 was operated fifty consecutive times with no malfunctions.

### Safety Evaluation

The 3A HHSI pump will be taken out of service only as allowed by the limitations of Technical Specifications 3.4.1.a.4 and 3.4.1.b.2. The Electrical, Operations, and Technical Departments will all take part in the test and will be familiar with the precautions and limitations of this special test.

Therefore, this test does not involve an unreviewed safety question as it does not:

- a) Increase or affect the probability or consequences of an accident previously evaluated in the FSAR.
- b) Increase or affect the probability or consequences of malfunction of equipment important to safety previously evaluated in the FSAR.
- c) Create the possibility of an accident of a different type than those analyzed in the FSAR.
- d) Decrease any margin of safety discussed in the Technical Specification basis.

### 3A MSR Metal Temperature Test

#### Background Information

This special test was designed to provide information on controlled heat-up rate of 3A Moisture Separator Reheater metal during unit startup.

#### Test Results

Results of the test revealed 3A MSR metal temperature rate by far exceeded the allowable rate. The cause of the sudden surge of temperature can be attributed to the characteristics of an 8 inch gate valve being used as a control (timing) valve.

#### Proposed Solution

The proposed design change will consist of a control valve on a bypass line adjacent to a MOV gate valve. During startup, the MOV gate valve will be closed. Heat-up rate of MSR will be initiated when control valve is energized in the open mode. When normal operating temperatures are reached in the MSRs, control valve bypass is closed and MOV gate valve is opened. This design change will tremendously enhance the life of the control valve by a reduction of chattering and vibration from high velocity main steam.

SPECIAL TEST 83-01

COMMON

"B" GAS DECAY TANK RELIEF VALVE TEST

BACKGROUND INFORMATION

This special test was designed to preclude the possibility that an inadvertent gas release from the "B" Gas Decay Tank was the result of the Safety valve Lifting."

TEST RESULTS:

Test successfully verified integrity of relief valve.

SAFETY EVALUATION:

This Special Test does not increase the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety; it does not create the possibility of an accident or malfunction not previously evaluated; and the margin for safety as defined in the basis for Technical Specification is not reduced.



September 7, 1983  
L-83-479

*Docket File*  
*extra copy given (9/13)*  
*to Harold Gibson*  
*AG: 26*

Mr. James P. O'Reilly  
Regional Administrator, Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta Street NW, Suite 2900  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

Re: Turkey Point Units 3 & 4  
Docket Nos. 50-250 and 50-251 */H*  
10 CFR 50.59 Report

Florida Power & Light's Report on "Changes, Tests, and Experiments Made Without Prior Commission Approval" for the period July 1, 1982 through June 30, 1983 is attached.

Very truly yours,

Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/PLP/js

Attachment

cc: Director, Office of Inspection and Enforcement  
Harold F. Reis, Esquire

*ORIGINAL COPY*  
*83-155*