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 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 AUTH. NAME AUTHOR AFFILIATION  
 WOODY, C. D. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 GRACE, J. N. Region 2, Ofc of the Director

SUBJECT: Forwards summary of mgt-on-shift (MOS) weekly repts.

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 TITLE: Turkey Point Management Onshift Program

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JANUARY 12 1988

L-88-13

38 JAN 14 9:06

Dr. J. Nelson Grace  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Re: Turkey Point Units 3 and 4  
Docket Nos. 50-250 and 50-251  
Management-on-Shift Weekly Report

Dear Dr. Grace:

Pursuant to the Nuclear Regulatory Commission Order dated October 19, 1987,  
the attached summary of Management-on-Shift (MOS) reports is submitted.

Should there be any questions on this information, please contact us.

Very truly yours,

C. O. Woody  
Executive Vice President

COW/SDF/cn  
Attachment

cc: J. Lieberman, Director, Office of Enforcement, USNRC  
Gordon E. Edison, Project Manager, NRR, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant  
R. E. Tallon, President, FPL

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an FPL Group company

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# MANAGEMENT ON SHIFT (MOS)

## WEEKLY SUMMARY REPORT

WEEK STARTING: January 4, 1988

PAGE 1 OF 1

Five MOS observers were on shift: Bruce M. Parks, St. Lucie QA Supervisor for Performance Monitoring (01/04-10/88, Day); J. H. Barrow, St. Lucie Operations Superintendent (01/04-11/88, Night); T. A. Finn, Turkey Point Training Superintendent (01/04-11/88, Night); Daryle L. Osborn, Turkey Point Engineering Configuration Control Manager (01/06-11/88, Night); and J. M. Donis, Turkey Point Site Engineering Supervisor (01/08-11/88, Night). While on shift these MOS observers reported potential safety problems, questionable work practices, operating strengths, areas for improvements, and general recommendations. During this period Unit 3 was ramped to 100% power (Mode 1). Power was reduced to 85% in order to improve secondary chemistry. Unit 4 remained at 100% power (Mode 1). No immediate safety problems were observed.

The following questionable work practice was observed.

- The solenoid for Pressurizer Steam Space Sample valve CV-4-956A was scheduled to be replaced. Neither the safety evaluation nor the work order adequately addressed the support required for the replacement solenoid. A request for engineering analysis has been issued to resolve the solenoid support problem.

Some improvements to procedures were recommended by MOS observers.

- Revise Reactor Protection Periodic 4-OSP-049.1 to detail the meaning of test light indications.
- Ensure all operators are aware of the revision to OP-65.2 which allows them to change backup Nitrogen bottles.

Miscellaneous improvements recommended by MOS observers are listed below:

- Remove miscellaneous items from file cabinet tops in the areas behind the Control Boards.
- The Control Room must be notified anytime work on the Safety Assessment Computer System might cause a computer system disturbance.
- Improve the durability of Control Room drawings.
- Perform surveillances on their scheduled days in order to alleviate the confusion associated the Technical Specification test intervals.
- Include operator participation during the conceptual design stage of the Plant Change/Modification process.
- Schedule more engineers for MOS observer watches. The engineers' awareness of plant operations would be heightened and better communications with plant personnel would be established.

The Management on Shift (MOS) procedure (O-ADM-019) was revised to provide the MOS observers with more guidance especially in the area of professionalism. The MOS Daily Reports now include a "professionalism" section that was first used on the night shift of January 7, 1988. This is the initial phase of FPL program to establish "valid requirements" on which to promote and appraise professionalism.

**ATTACHMENT: MOS DAILY REPORTS**



To: Operations Superintendent - Nuclear

Date: 01/04/88

From: Bruce M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- Shift briefings
- Toured Auxiliary building and Turbine building
- Attended ERT meetings for troubleshooting and corrective action on LT-461 (Pressurizer Level Channel) indication of higher than actual level.
- Unit 4 steady state 100% power; Unit 3 at 74% power with 3%/hr increase toward 100% power.

## B. Immediate safety problems

None

## C. Questionable work practices

None observed

## D. Actions taken

None

## E. Strengths

ERT meetings for LT-461 were thorough

- Potential root causes were discovered
- A plan of attack was developed
- For blowdown of reference leg, potential problems were anticipated and preventative/corrective action were addressed.

## F. Area(s) for improvement

None

## G. Recommendations

None

Completed By: B.M. Parks  
MOS Observer

Date: 01/04/88

Reviewed By: *[Signature]*  
Operations Superintendent - Nuclear

Date: 1/5/88





To: Operations Superintendent - Nuclear

Date: 01/04-05/88

From: J.H. Barrow

(MOS Observer)

Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Continuing load increase to 100% on Unit 3
- Observed planning between operation and maintenance as work was planned to unplug a sensing line to Pressurizer Level Indicator LT-461.
- Observed shift meetings during and after turnover
- Observed starting of "3A" and "B" Heater Drain Pumps

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Actions taken

None

## E. Strengths

- Both the oncoming and off-going NPS and ANPS were active during shift turnover as they reviewed the shift relief checklist.
- Material condition of secondary plant is in good condition.

## F. Area(s) for improvement

Area behind vertical panels in Control Room needs to be policed. (Empty boxes and miscellaneous items on top of file cabinets).

## G. Recommendations

None

Completed By: J.H. Barrow

MOS Observer

Date: 01/05/88

Reviewed By:

*J.W. Pearce*  
Operations Superintendent - Nuclear

Date: 1/5/88



To: Operations Superintendent - Nuclear

Date: 01/04-05/88

From: T.A. Finn  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3 ramping reactor power to 100% at 3%/hr
- Unit 4 steady state operations at 100% reactor power
- Shift turnover PSN and APSN
- Shift briefing.
- Plant tour
- Troubleshooting Unit 3 Secondary Drain System

## B. Immediate safety problems

None

## C. Questionable work practices

I&C has been attempting to replace the solenoid for the Pressurizer Steam Space Sample valve CV-4-956A. The safety evaluation for CPWO86-252 states that the new solenoid ASCO model NP831654E is replacing ASCO model LP831614 which is listed in the instrument index. But the solenoid presently installed is a MAC P/N 56B12681C. This is also noted in the safety evaluation. This was identified by NCR 86-435.

The MAC solenoid is installed, supported only by the copper instrument air lines. The ASCO solenoid is heavier than the MAC. The copper tubing will not properly support the ASCO solenoid. This is evident by the crimped instrument air line on a sister valve, CV-4-956B, Pressurizer Liquid Sample, which has the ASCO solenoid installed. The CV-4-956B solenoid is supported only by the instrument tubing. The work order and the safety evaluation do not address supporting the solenoid.

## D. Action taken

- The job was placed on hold until discrepancy resolved
- The PSN was notified concerning the crimped air line on CV-4-956B.
- CV-4-956B was stroked and timed as per OP-0209.1 Appendix P. and tested satisfactory.
- PWO submitted to repair/mount solenoid on CV-4-956B.

## E. Strengths

None

## F. Area(s) for improvement

None

## G. Recommendations

To standardize the installation of solenoids on control valves i.e. several mounting methods for various applications that are evaluated, approved and proceduralized.

Note: #5 shift APSN and NPOs spent the major portion of the shift troubleshooting #3 secondary. Their efforts produced approximately 25 MWE. Good job.

Completed By: T.A. Finn  
MOS Observer

Date: 01/05/88

Reviewed By: *[Signature]*  
Operations Superintendent - Nuclear

Date: 1/5/88

*OFF 1/5/88* *1/5/88* FINAL PAGE

To: Operations Superintendent - Nuclear

Date: 01/05/88

From: Bruce M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- 100% power operation, both units
- Attended ERT meetings on LT-461
- Observed shift meetings and turnovers
- Observed miscellaneous operation surveillances and logkeeping

## B. Immediate safety problems

None

## C. Questionable work practices

None noted

## D. Actions taken

None

## E. Strengths

APSN and STA noted bent support on Reheater Drain line, roped off area and notified system engineer. NWE walked rest of system. Good attention to detail.

## F. Area(s) for improvement

None

## G. Recommendations

Ensure RCOs are aware of intent to reboot SAS. The screens go blank without warning.

Completed By: B.M. Parks  
MOS Observer

Date: 01/05/88

Reviewed By: *J.W. Pearce*  
Operations Superintendent - NuclearDate: 1/6/88

*CH 1/6/88 JWP 1/6/88 JWP 1/6/88*

01/05/88

To: Operations Superintendent - Nuclear

Date: 01/05-06/88

From: J.H. Barrow

(MOS Observer)

Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Both Units at 100% power
- Observed precautions made by Operations personnel to check with Technical Staff on Technical Specification interpretation on Reactor Protection System.
- Observed shift meetings during and after turnover
- Toured Unit 3 Secondary Plant.

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Actions taken

None

## E. Strengths

- Both the oncoming and off-going supervisors were active during shift turnover as they reviewed the Shift Relief checklist.
- Unit 3 Generator Seal Oil System was clean with no oil on pumps or floor.

## F. Area(s) for improvement

The two sets of Technical Specifications are a major source of confusion.

## G. Recommendations

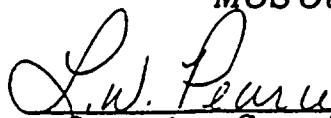
None

Completed By: J.H. Barrow

MOS Observer

Date: 01/06/88

Reviewed By:

  
Operations Superintendent - Nuclear

Date: 1/6/88

CJB 1/6/88 JHB 1/6/88 JLB 1/6/88

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1
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To: Operations Superintendent - Nuclear

Date: 01/05-06/88

From: T.A. Finn  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Unit 3 at 100% reactor power, routine operations
- Unit 4 at 100% reactor power, routine operations
- Plant tour
- Shift turnover PSN and APSN
- Shift briefing
- Reactor Protection Periodic 4-OSP-049.1 train "B"
- Troubleshooting reactor trip relays "RT 5 and 6" train "B"

B. Immediate safety problem

None

C. Questionable work practices

None

D. Actions taken

None

E. Strengths

None

F. Area(s) for improvement

Operations and I&C had difficulty finding information detailing the meaning of test light indication while performing Reactor Protection Periodic 4-OSP-049.1. During the testing of the under voltage matrix the white test light did not go out. It required phone calls out of plant and time to find prints to research what this indication meant.

01/05-06/88

## G. Recommendations

- Describe in the basis for 3/4 OSP-049.1 what the test lights are indicating.
- Prints readily available in the Control Room for the Reactor Protection circuitry.
- Incorporate action statements in 3/4 OSP-049.1 if acceptance criteria can not be met.
- Train operations and I&C on the above.

Completed By: T.A. Finn  
MOS Observer

Date: 01/05-06/88

Reviewed By: *L.W. Pearce*  
Operations Superintendent - Nuclear

Date: 1/6/88

FINAL PAGE





To: Operations Superintendent - Nuclear

Date: 01/06/88

From: Bruce M. Parks

(MOS Observer)

Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- Plant operation at steady state
- Shift briefing
- Morning Plan of Day meeting
- Implementation of 4-OSP-075.3 (Auxiliary Feedwater Backup Nitrogen)
- RCO turnover
- Followed up on Clearance Tags. No problems identified.

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Actions taken

None

## E. Strengths

Good participation in the shift briefings

## F. Area(s) for improvement

None

## G. Recommendations

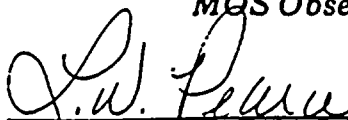
None

Completed By: B.M. Parks

MOS Observer

Date: 01/06/88

Reviewed By:



Operations Superintendent - Nuclear

1/7/88

1/7/88

Date: 1/7/88

01/06/88

To: Operations Superintendent - Nuclear

Date: 01/06-07/88

From: Daryle L Osborn  
(MOS Observer)Shift: ☐ Day  
☒ Night**A. Plant evolutions observed**

- Unit 4 at 100% power
- Unit 3 at 100% to 85% power
- Shift turnover
- Shift coordination meeting
- Plant tour with PSN

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Actions taken**

None

## E. Strengths

An AFW Nitrogen Backup Header Valve misalignment occurred during the post test valve repositioning following implementation of 4-OSP-075.3, "AFW Nitrogen Backup System Low Pressure Alarm Setpoint and Leakrate verification". The error was identified approximately 70 minutes after completion of the test by a Turbine Operator (T.O.) during his preshift turnover walkdown. The T.O. promptly notified the PSN, and procedure 4-OP-065.2 (AFW/MSIV Nitrogen Backup System) was implemented to restore the correct valve alignment. This event identifies a strength in general "attention to detail" being demonstrated by operators at Turkey Point, in that, although human error did occur, the system identified the error promptly and corrective measures were instituted immediately.

## F. Area(s) for improvement

The controlled drawings (Piping and Instrumentation Diagrams, Training and Education Drawings, Logic Diagrams) used frequently by the operators were complete and in proper order. However, due to their frequent use, these documents were not set in a neat and "user friendly" manner. Suggest evaluating the possibility of laminating these drawings with plastic or auditing and replacing worn out documents on a weekly or bi-weekly schedule.

## G. Recommendations

None

Completed By: Daryl L. Osborn  
MOS Observer

Date: 01/06-07/88

Reviewed By: *[Signature]*  
Operations Superintendent - Nuclear

Date: 1/7/88

*cjb 1/7/88* *jd 1/7/88*  
FINAL PAGE

To: Operations Superintendent - Nuclear

Date: 01/06-07/88

From: J.H. Barrow  
(MOS Observer)Shift: ☐ Day  
☒ Night**A. Plant evolutions observed**

- Load reduction to 85% on Unit 3
- Observed "B" Diesel Generator Test
- End of shift meeting
- Shift turnover and shift briefing
- Reviewed problem found on Auxillary Feedwater System Valve lineup on back Nitrogen source.

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Actions taken**

None

## E. Strengths

The nuclear plant Turbine Operator found a backup Nitrogen valve misaligned at the beginning of the 3:30 to 11:30 p.m. shift. This proves that the backup to check valve positions on the Auxilliary Feedwater System Nitrogen supply was adequate to restore the misaligned valve to proper position in 45 minutes.

## F. Area(s) for improvement

If surveillance tests were executed on the scheduled day, there would be little difficulty evaluating the time interval between tests as required by Technical Specifications.

## G. Recommendations

Even though the operating procedure used to restore Nitrogen bottles to service on the Auxilliary Feedwater System was technically correct, the procedure was a little difficult to follow. If the procedure was improved from a human factors point of view, future valve alignment may be more likely to be executed correctly.

Completed By: J.H. Barrow  
MOS Observer

Date: 01/07/88

Reviewed By: *J.W. Peace*  
Operations Superintendent - Nuclear

Date: 1/7/88

*CYS 1/7/88*

*yo*

1/7/88  
FINAL PAGE



To: Operations Superintendent - Nuclear

Date: 01/07/88

From: B.M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- 88% power operation - Unit 3
- 100% power operation - Unit 4
- Preshift change and post shift change meetings
- Morning Plan of the Day meeting
- Handling of injured person in containment
- Implementation of 3-OSP-59.1
- Reaction to low Nitrogen pressure on "3A" Main Steam Isolation Valve

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Actions taken

None

## E. Strengths

Prompt action on handling of injured man. An I&C Technician was burned by steam while performing ERT planned troubleshooting on LT-3-461. The man was quickly evacuated from containment. Proper notifications were made. (The event was in progress at MOS shift change).

## F. Area(s) for improvement

None

## G. Recommendations

Ensure all shifts are aware of the provisions in OP-65.2 allowing operators to change backup Nitrogen bottles for the Main Steam Isolation Valves and Auxiliary Feedwater System. A brief entry was made into a Limiting Condition for Operations because Maintenance did not work a PWO to change bottles (issued yesterday) and the operator initiating the PWO did not take advantage of this provision.

Completed By: B.M. Parks  
MOS Observer

Date: 01/07/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 1/8/88

Management Review By: CPS 1/18/88 [Signature] 1/18/88  
PM-N Date SVR Date VP Date

01/07/88





To: Operations Superintendent - Nuclear

Date: 01/07-08/88

From: J.H. Barrow  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3 at 89% power to clean up condensate.
- Unit 4 at 100% power
- End of shift meeting, shift change over and shift planning meeting.
- Changing of Nitrogen bottles on Auxiliary Feedwater System.
- Routine Control Room operational activities.

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

- Entries in log books were neat, legible, and comprehensive.
- Use of the public address system was kept to a minimum.
- Shift meetings were informative with the appropriate representation.
- Annunciator alarms were investigated promptly followed by appropriate communications to operators on watch stations.
- Procedural steps were adhered to by Operations personnel.
- There were no distractions in the Control Room that interfered with the RCOs focus on the control board.

## F. Recommendations

None

Completed By: J.H. Barrow  
MOS Observer

Date: 01/08/88

Reviewed By: *J.W. Pearce*  
Operations Superintendent - Nuclear

Date: 1/8/88

Management  
Review By:*CRB* 1/8/88 *VP* 1/8/88  
PM-N Date SVB Date VP Date

01/07-08/88

To: Operations Superintendent - Nuclear

Date: 01/07-08/88

From: Daryle L. Osborn  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 4 at 100% power
- Unit 3 at 90% power
- PWO WA-880080148
- Plant tour with PSN
- Shift turnover meeting

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

Shift turnover meeting was conducted in a professional manner with a clear and concise exchange of information and status.

## F. Recommendations

None

Completed By: Daryle L. Osborn  
MOS Observer

Date: 01/08/88

Reviewed By:   
Operations Superintendent - NuclearDate: 1/8/88Management  
Review By:

CHB 1/18/88  1/18/88  
PM-N Date SVP Date VP Date

01/07-08/88

To: Operations Superintendent - Nuclear

Date: 01/08/88

From: Bruce M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- 0720 Plan of the Day Meeting
- Shift briefings
- Implementation of 4-OSP-75.1 section 7.1 "Auxiliary Feedwater Train 1 Operability Verification".
- Toured RCA - Observed frisking at exit of RCA.
- Routine plant operation at steady state including logkeeping, clearance processing, surveillance activity, etc.

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

1. The plant needs to put additional effort and emphasis on getting surveillances done on schedule without use of the grace period. As pointed out by the QC Supervisor in the morning Plan of the Day meeting, the grace period for completion of the RHR pump monthly periodics ran out this weekend. In addition, a Hydrogen Analyzer Test was within 10-12 hours of the end of the grace period upon completion.

## E. Professionalism, Summary of Shift, Comments

1. Shift meetings were attended by Operations and Maintenance personnel. Good discussions of plans for the shift and problems with plant.
2. When repetitious alarms occurred from testing, the operator checked for additional alarms prior to clearing the alarm.
3. Procedures were followed in a verbatim fashion.
4. The RCO was careful to ensure simultaneous readings when taking data to compare Control Room and local indications.

## F. Recommendations

See D-1

Emphasize to Operations, Maintenance, Health Physics and other departments performing surveillances the need to perform surveillances on schedule (e.g., O-OSP-200.1 "Schedule of Plant Checks and Surveillances").

Completed By: Bruce M. Parks  
MOS Observer

Date: 01/08/88

Reviewed By: L. W. Pearce  
Operations Superintendent- Nuclear

Date: 1/10/88Management  
Review By:

CPB 1/11/88 YJO 1/11/88 1  
PMN Date SVR Date VP Date

## MANAGEMENT INITIAL RESPONSE



To: Operations Superintendent - Nuclear

Date: 01/08-09/88

From: J.H. Barrow  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3 at 89% power
- Unit 4 at 100% power
- Shift briefings and turnover
- Shift activities were limited to routine operations with no major plant evolutions.

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

1. Very few people entered the RCOs designated operations area during the observation period.
2. Most of the interface with other departments was conducted in offices leaving the Control Room area quiet and orderly.
3. Several departments were active in beginning of shift planning session.

## F. Recommendations

None

Completed By: J.H. Barrow  
MOS Observer

Date: 01/09/88

Reviewed By: S.W. Piana  
Operations Superintendent - Nuclear

Date: 1/10/88

Management  
Review By:

CHB 1/11/88 SWP 1/11/88  
PMN Date SWP Date VP Date





To: Operations Superintendent - Nuclear

Date: 01/08-09/88

From: J.M. Donis

(MOS Observer)

Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3 in Mode 1 at approximately 90% power
- Unit 4 in Mode 1 at 100% power
- Return of LT-3-461 to service following Maintenance Operability Test of CV-4-956.
- Shift turnover meeting

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

- Shift turnover meeting conducted in a professional manner. Attended by Maintenance and Operations personnel. Good flow of information.
- Conduct in Control Room demonstrated good teamwork and attention to detail.

## F. Recommendations

None

Completed By: J.M. Donis  
MOS Observer

Date: 01/09/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 1/11/88

Management  
Review By:CNB 1/11/88 [Signature] 1/11/88  
PM-N Date SVA Date VP Date



To: Operations Superintendent - Nuclear

Date: 01/09/88

From: Bruce M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- Shift briefings
- Implementation of 3-OSP-75.2 "Auxiliary Feedwater Train 2 Operability Verification" section 7.1.
- Toured Turbine Building
- Reactor Plant operation at steady state power.

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None observed

## E. Professionalism, Summary of Shift, Comments

1. Logs were well kept and legible. Entries were such that the train of events were clear.
2. Shift meetings had excellent discussions of planned plant activities.
3. Procedure steps were adhered to by personnel. Copies of procedures were used by both Control Room personnel and personnel at the control stations.
4. Coordination between Control Room and personnel outside was evident during Auxiliary Feedwater Testing.

## F. Recommendations

None

Completed By: Bruce M. Parks  
MOS Observer

Date: 01/09/88

Reviewed By: *S.W. Pearce*  
Operations Superintendent - NuclearDate: 1/10/88Management  
Review By:*OK* 1/11/88 *MD* 1/11/88 1  
PM-N Date SVR Date VP Date

To: Operations Superintendent - Nuclear

Date: 01/09-10/86

From: J.H. Barrow  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Shift briefings
- Routine Control Room activities with Unit 3 at 90% and Unit 4 at 100% power.
- "C" Auxiliary Feedwater Pump surveillance test.

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

1. Operators were requested to monitor their watch stations carefully to find areas for improvement especially in the equipment maintenance area.
2. A very informative discussion was held to explain the reason for increased surveillance on the Nitrogen Backup System for the Auxiliary Feedwater System. There was an active discussion during the shift briefing which included other plant disciplines.
3. Prior to performing a scheduled surveillance test on "C" Auxiliary Feedwater Pump the operators involved with the test held a discussion using the surveillance procedure as a guide. The third RCO performed the test leaving the Unit 4 RCO free to monitor the rest of the control board.

## F. Recommendations

None

Completed By: J.H. Barrow  
MOS Observer

Date: 01/10/88

Reviewed By: *L.W. Pearce*  
Operations Superintendent - Nuclear

Date: 1/11/88

Management  
Review By:*CPB* 1/11/88 *SVR* 1/11/88  
PM-N Date SVR Date VP Date



To: Operations Superintendent - Nuclear

Date: 01/09-10/88

From: J.M. Donis  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3 in Mode 1 at 90% power
- Unit 4 in Mode 1 at 100% power
- Steady state operation
- Performance of 4-OSP-75.1 - "C" Auxiliary Feedwater Test.
- "3C" Charging Pump in break-in run.

## B. Immediate safety problem

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

1. Shift turnover meeting included a very thorough briefing of the requirements for verifying the Auxiliary Feedwater Nitrogen backup supply pressure every 72 hours. Bases for this requirement were discussed. Questions by RCO were answered in detail.
2. Observed performance of "C" Auxiliary Feedwater Operability Test (4-OSP-75.1). There was excellent communication between Control Room and field personnel.

## F. Recommendations

None

Completed By: J.M. Donis  
MOS Observer

Date: 01/10/88

Reviewed By: J.W. Pearce  
Operations Superintendent - NuclearDate: 1/10/88  
JPManagement  
Review By:ChB 1/11/88 VP 1/11/88  
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 01/10/88

From: Bruce M. Parks  
(MOS Observer)Shift: ☒ Day  
☐ Night

## A. Plant evolutions observed

- Shift briefings
- Routine steady state power operation
- Toured Turbine Building and switchgear rooms.
- Observed portions of 3-OSP-49.1 "Reactor Protection System Logic Test".

## B. Immediate safety problem

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None observed

## E. Professionalism, Summary of Shift, Comments

1. Logs were thorough.
2. Control Room was quiet and plant activities were conducted in a professional manner.
3. Procedures were followed. Communications between the Control Room, Cable Spreading Room, and Reactor Trip Breaker Room were established and maintained such that Reactor Protection System testing was controlled in accordance with the procedure. Copies of the procedure were distributed and followed by the various stations.

## F. Recommendations

None

Completed By: Bruce M. Parks  
MOS Observer

Date: 01/10/88

Reviewed By: L.W. Pearce  
Operations Superintendent - Nuclear

Date: 1/10/88

Management  
Review By:

JB 1/11/88 VP 1/11/88  
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 01/10-11/88

From: J.H. Barrow  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Routine plant operations in Control Room
- Shift turnover
- Beginning of shift planning meetings
- Portions of Unit 3 Reactor Protection Test

## B. Immediate safety problem

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

Following my five nights on shift as a MOS observer in early October, 1987, I reported that major plant priority seemed to be focused on numerous plant improvement programs that address long range goals. I stated that this emphasis had minimized the effort to maintain plant equipment.

Presently there is a more balanced interest in maintaining equipment as well as continuing long range plant improvement programs. This observation has been validated by input from operators.



F.

## Recommendations

Two engineers from the site engineering staff served as MOS observers during five of my seven shifts. Based on their positive comments about the benefit of interfacing with operators, I am recommending that more site engineers serve in this capacity for the following reasons:

1. It will provide some relief to the plant management who have provided MOS coverage since August, 1987.
2. The engineers will be able to hear about and see the operators concerns.
3. The engineered job will meet the real needs of the plant.
4. It will establish better communications between plant personnel and the site engineering staff.

Completed By:

J.H. BarrowMOS ObserverDate: 01/11/88

Reviewed By:

L.W. PearceOperations Superintendent - NuclearDate: 1/11/88Management  
Review By:CPB  
PM-N1/11/88  
DateSVR1/11/88  
DateVP1  
Date

## MANAGEMENT INITIAL RESPONSE

To: Operations Superintendent - Nuclear

Date: 01/10-11/88

From: J.M. Donis  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3, Mode 1 at approximately 90% power
- Unit 4, Mode 1 at approximately 100% power
- Reactor Protection Test (Unit 3)
- Start of "3A" and "3B" Heater Drain Pumps (3-OP-81)

## B. Immediate safety problems

None observed

## C. Questionable work practices

None observed

## D. Area(s) for improvement

None

## E. Professionalism, Summary of Shift, Comments

1. Attended shift turnover meeting. Good participation by all departments. Meeting conducted in a professional manner by PSN and APSN.
2. Excellent coordination between Chemistry Department and Operations during restart of Heater Drain Pumps (Unit 3). Both departments anticipated potential adverse consequences and prepared to take action in advance of possible steam generator chemistry concerns.



## F. Recommendations

- ° Operators should be given greater opportunity to participate in the Plant Change/Modification (PC/M) process during the conceptual design stage. By providing their input, the operators would buy into the projects and the design, in all likelihood, would better satisfy the needs of the customer. Conceptual design packages could be reviewed by a standing committee (rotating members) of operations personnel. Comments could then be collected and presented by the Operations PC/M Coordinator at the Operability/Implementation review meetings.

Completed By: J.M. Donis  
MOS ObserverDate: 01/11/88Reviewed By: S.W. Pearce  
Operations Superintendent - NuclearDate: 1/11/88Management  
Review By:PM 1/11/88 SVR 1/11/88 VP 1  
PM/N Date SVR Date VP Date

## MANAGEMENT INITIAL RESPONSE

