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AUTH. NAME AUTHOR AFFILIATION
CONWAY, W. F. Florida Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
GRACE, J. N. Region 2, Ofc of the Director

SUBJECT: Forwards summary of mgt-on-shift repts for wk beginning 880215, per 871019 NRC order.

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FLORIDA POWER & LIGHT

FEBRUARY 24 1988

L-88-90

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,

W. F. Conway
for Senior V.P. - Nuclear

WFC/SDF/pw
Attachment

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



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# MANAGEMENT ON SHIFT (MOS)

## WEEKLY SUMMARY REPORT

WEEK STARTING: February 15, 1988



Four MOS observers were on shift; John A. Dyer, St. Lucie Nuclear Plant Quality Control Department (02/15-21/88) days), Peter L. Walker, Westinghouse Electric Corporation (02/15-22/88 nights), Daniel Tomaszewski, Turkey Point Nuclear Plant Instrumentation and Control Supervisor (02/15-20/88 nights), and R. C. Sontag, Turkey Point Nuclear Plant INPO Coordinator.

During the reporting period, Unit 3 continued the startup process reaching 25% power. Unit 4 completed scheduled maintenance activities and initiated startup efforts reaching 320°F Reactor Coolant System temperature at the end of the reporting period.

No immediate safety problems or questionable work practices were identified during the reporting period.

During the reporting period, the MOS observers noted about twenty recommendations or areas for improvement. These suggestions and concerns included:

1. Seven comments were made concerning procedures to control maintenance activities and return equipment to service.
2. Four comments were made on housekeeping and storage practices.
3. Three comments were made on industrial safety practices.
4. Three comments were made on procedures and drawings with concern about both accuracy and procedural control.
5. Two comments on the condition of equipment were made and concerned the Control Room door and Area Radiation Monitoring System.
6. One comment was made to update I&C Technician training on a new piece of equipment.
7. An often repeated comment was made on the problems of encountering differences between the original Technical Specifications and the Standardized (interim) Technical Specifications.

Procedural guidance is being developed on the use and implementation of the Interim Technical Specifications. This procedure will replace the Interim Technical Specifications.

ATTACHMENT: MOS DAILY REPORTS

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/15/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

**A. Plant evolutions observed**

- Morning meetings
- Shift briefings
- Planning meetings
- Unit 3 "Reactor Protection System Logic Test" 3-OSP-049.1
- Plant tour secondary and Radiation Control Area outside the containment.
- Unit 3 and Unit 4 Control Room operations
  - Unit 3 in mode 3, 547°F and 2235 psig
  - Unit 4 in mode 5

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

1. Reactor operator trainees performed the "Reactor Protection System Logic Test" under direction of the Reactor Control Operator (RCO). If trainees had any questions they immediately asked guidance. The RCO was attentive to the conduct of the test and readily responded to trainees questions.
2. Good exchange of information at the shift briefings.

**F. Recommendations**

None

Completed By: John A. Dyer *MOS Observer* Date: 02/15/88

Reviewed By: [signature] *Operations Superintendent-Nuclear* Date: 2/16/88

Management Review By: [signature] *PM-N* 02/16/88 *Date* [signature] *SVP* 2/16/88 *Date* [signature] *VP* / *Date*

*MOS.1 01.07/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/15-16/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3 - Calibration tests performed on Source and Intermediate range channels.
  - Found a problem on N32.
  - Control Rod Drive Mechanism Motor/Generator sets started.
  - Unit in hot standby
- Unit 4 - Unit in cold shutdown with repairs underway on condenser water boxes.
  - Placed turbine on turning gear
  - Started 4C Reactor Coolant pump-began heatup
  - Drew bubble in pressurizer, stabilized level at 25%

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

OK - smooth shift, good turnovers

**F. Recommendations**

None

Completed By: P. L. Walker *MOS Observer* Date: 02/15-16/88

Reviewed By: [signature] *Operations Superintendent- Nuclear* Date: 2/16/88

Management Review By: [signature] *PM;N* 2/16/88 *Date* [signature] *SVP* 2/16/88 *Date* _____ *VP* 02/15-16/88 *Date*

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/15-16/88

From: D.J. Tomaszewski *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

Unit 3

- N-44 Nuclear Instrumentation Power Range Periodic Test
- N-32 Nuclear Instrumentation Drawer Calibration
- Testing of Control Valve 310A after repair

Unit 4

- Test of Generator Liquid Detectors
- Pressurizer heatup
- 4C Component Cooling Water Heat Exchanger maintenance
- Tour RCA outside Containment
- Shift briefing

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

I&C Specialists performing calibration of the Source Range Nuclear Instrumentation system were not familiar with operation or calibration of the low noise preamplifier. One section had to be redone as a result of this. Training needs to be done to familiarize them with the operation of the new equipment.

**E. Professionalism, Summary of Shift, Comments**

1. Procedure Usage- The Turbine Operator performing the test of the Unit 4 Generator liquid level Detectors was not initialing steps as they were performed. Even though this was a non-safety procedure he was corrected by the APSN immediately. This was good reinforcement of management expectations by the on shift supervision.

2. The Shift Technical Advisor was working with an I and C Specialist to clear up a Plant Work Order related to the one the I and C Specialist was working on associated with control valve CV-310A. This resulted in two problems being fixed on one work order. Both the Shift Technical Advisor and the Technician had a good cooperative attitude and were quick to realize that the same problem had created both work orders. Good recognition of a common cause by both parties.

F. Recommendations

None

Completed By: D.J. Tomaszewski — *MOS Observer* Date: 02/16/88

Reviewed By: _____ — *Operations Superintendent- Nuclear* Date: 2/16/88

Management Review By:

| PM-N | Date | SVP | Date | VP | Date |
|---|---|---|---|---|---|
| [illegible] | 12/16/88 | [illegible] | 2/16/88 | | |

## MANAGEMENT INITIAL RESPONSE

WKLY

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/16/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

**A. Plant evolutions observed**

- Morning meeting
- Shift briefings
- "125 VDC Station Battery Monthly Maintenance" O-SME-003.2
- Scheduling meeting
- Hazardous waste container storage area
- Plant tours

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

1. Hazardous Waste Containment-posting
2. 125 VDC station battery monthly maintenance

Refer to section F-Recommendations

**E. Professionalism, Summary of Shift, Comments**

1. Shift briefings and turnover continue to be excellent.
2. Observed a truck delivering chemicals at the chemical storage area between Units 2 & 3. The driver left the truck and it was still running after he had backed to the unloading dock. The accompanying security guard immediately turned off the ignition and removed the keys. Good job.

F. Recommendations

D.1 The Hazardous Waste Storage Area shared by the fossil & nuclear units is not posted in accordance with paragraph 5.2.5 of O-ADM-015.2 "Hazardous Waste Handling and Storage".
Post warning sign on the East and West sides of the storage area alerting personnel to the danger.

D.2 Procedure O-SME-003.2

1. Paragraph 4.2.4 states that battery float voltage is not to exceed 132 VDC unless the battery is isolated from DC Bus.
2. Paragraph 6.4.3.2 lists acceptance criteria for float voltage as 129 to 135 VDC. This is also reflected on attachment 5 page 3 of 14, step 6.4.3.2.

The upper limit of 135 VDC exceeds the 132 VDC listed in the limitations. Revise procedure to clarify this discrepency.

Completed By: John A. Dyer — *MOS Observer* Date: 02/16/88

Reviewed By: [signature] — *Operations Superintendent- Nuclear* Date: 2/17/88

Management Review By: [signature] *PM-N* *Date* [signature] *SVP* 2/17/88 *Date* _____ *VP* _____ *Date*

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/16-17/88

From: P. L. Walker
*(MOS Observer)*

Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3 Halfway through Rod Acceptance Test, Source Range Channel N32 failed (about 2325). The channel was repaired and placed back in service at 0425 (5 hours later) Unit continues in hot standby
- Unit 4 4B Reactor Coolant Pump was started after completion of Flywheel key maintenance. Performance is acceptable. Work continues on waterbox with Unit in cold shutdown-emphasis being placed on Unit 3

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

1. 5 hours to repair Unit 3's Nuclear Instrumentation Channel N32 was a very long time for an item which was holding up acceptance testing required for unit startup. Operation's part (initiation and closeout testing) was conducted expeditiously.
1. The Control room door (new) is balky to open, and sticks open. Shift turnover will caution personnel to fully close it when entering and exiting.

**E. Professionalism, Summary of Shift, Comments**

See D.J. Tomaszewski's report

**F. Recommendations**

None

Completed By: P. L. Walker *MOS Observer* Date: 02/16-17/88

Reviewed By: [signature] *Operations Superintendent-Nuclear* Date: 2/17/88

Management Review By: [signature] 12/17/88 *PM-N* *Date* [signature] 12/17/88 *SVP* *Date* *VP* *Date*

02/16-17/88

*MOS 1 01/07/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/16-17/88

From: D. J. Tomaszewski *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Shift turnover
- Mechanical maintenance turnover
- RCA tour
- Maintenance on 4C Component Cooling Water Heat Exchanger
- Maintenance on Nuclear Instrumentation N-32 Preamplifier
- Hot Rod position indication calibration
- Post maintenance testing of intermediate range Nuclear Instrumentation System Channel N-36
- Start of 4B Reactor Coolant Pump

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

1. In progress maintenance on the Rod Control System, PWO 8702 (worked 1/14/88), resulted in the Control Rod Speed being set at 48 steps per minute instead of 72 steps per minute. Steps on the work order for returning the system to normal for unit startup had not yet been completed. The I&C department needs to ensure that work on this item is complete prior to unit startup. Partially completed work orders need to be reviewed to ensure that they do not leave the plant in an unexpected condition. This needs to be done prior to startup. Although this is not a safety function of the system, the equipment should act as expected or appropriate information tags should be hung.
2. Source Range Channel, N-32, failed low while rod testing was in progress. The shift crew took appropriate action to return all control rods to the fully inserted position and open the Reactor Trip Breakers.

F. **Recommendations**

1. Review incomplete work in progress or on hold to ensure that normal operation of equipment is not impacted. This should be done prior to unit startup.
2. An excessive amount of time was taken to initiate repair of source range, N-32. The supervisor in charge of the job was not aware that his work crew was not working the job. Key activities should have closer supervision to ensure progress on the job.

Completed By: D. J. Tomaszewski — *MOS Observer* Date: 02/16-17/88

Reviewed By: [signature] — *Operations Superintendent- Nuclear* Date: 2/17/88

Management Review By:

| PM/N | Date | SVP | Date | VP | Date |
|---|---|---|---|---|---|
| [signature] | 12/1/88 | [signature] | 12/1/88 | | |

02/16-17/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/17/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

**A. Plant evolutions observed**

- Morning meeting
- Shift briefings
- Planning meeting
- Control Room operations
  - Unit 3 in Mode 3
  - Unit 4 in Mode 5
- Reviewing 125VDC system surveillance procedures against interim Technical Specifications surveillance requirements
- Plant tours: Secondary side and radiation controlled area outside the containment

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

Shift briefings continue as a good exchange of information and unit status.

Operators attentive to duty and give trainees every opportunity to perform control board functions.

**F. Recommendations**

None

Completed By: John A. Dyer *MOS Observer* Date: 02/17/88

Reviewed By: [signature] *Operations Superintendent- Nuclear* Date: 2/18/88

Management Review By: [signature] *PM-N* 12/8/88 *Date* [signature] *SVP* 12/18/88 *Date* [signature] *VP* 2/18/88 *Date*

02/17/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/17-18/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3 - Hot standby
  Rod Position Indication Calibration testing completed around 0330
  Rod drop testing under way-conoseal torquing and pressurizer spray valve maintenance remains to be done
- Unit 4 - Mode 5 with a bubble in pressurizer - 180°
  Observed work continuing on Condensor Water Box - patching almost complete.
  Switchyard bus sectionalizing was performed to clean insulators.
  Walked down intake structure area and turbine building.

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

- Quiet shift
- Training of new operators proceeding - does not interfere with normal operations.
- Control room door seems to be working better.
- My congratulations to all eight new SRO's.

**F. Recommendations**

None

Completed By: P. L. Walker *MOS Observer* Date: 02/17-18/88

Reviewed By: R. W. Pearce *Operations Superintendent- Nuclear* Date: 2/18/88

Management Review By: PM-N 12/18/88 Date; SVP 12/18/88 Date; VP 3/18/88 Date

02/17-18/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/17-18/88

From: D. J. Tomaszewski *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Peak shift end of shift meeting
- Shift turnover
- Unit 3 individual rod position calibration
- Unit 3 rod drop timing test
- Unit 4 control rod cable testing
- Gland Exhaust Condenser maintenance
- 4C Component Cooling Water Heat Exchanger maintenance
- Unit 3 Containment Isolation Rack testing

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

Welding on the 4C Component Cooling Water Heat Exchanger had been completed earlier in the day but the room deluge system had not yet been placed back in service. The PSN and Maintenance Supervisor were contacted and restored the system. Fire protection systems secured for welding or grinding should be returned to service as soon as work is complete.

E. **Professionalism, Summary of Shift, Comments**

Observed seal oil system startup on Unit 3. The procedures were in hand and being followed step by step. Problems noted two nights ago were no longer evident.

F. **Recommendations**

Ensure welding procedures or work orders are adequate to ensure fire protection systems are returned to service promptly on completion of welding activity.

Completed By: D. J. Tomaszewski *MOS Observer* Date: 02/17-18/88

Reviewed By: R.W. Pearce *Operations Superintendent- Nuclear* Date: 2/18/88

Management Review By: PM-N 12/18/88 Date; SVP 12/18/88 Date; VP 12/18/88 Date

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/18/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

A. **Plant evolutions observed**

- Morning meeting
- Shift briefings
- Scheduling meeting
- Control Room operations
  - Unit 3 in Mode 547° 2235 psig
  - Unit 4 in Mode 5, bubble in pressurizer 180°
- Plant tours: Secondary side and radiation controlled area outside the containment

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

Normal shift operations. Operators, both licensed and non-licensed attentive to duties.

F. **Recommendations**

None

Completed By: John A. Dyer *MOS Observer* Date: 02/18/88

Reviewed By: _____ *Operations Superintendent-Nuclear* Date: 2/19/88

Management Review By:

| PM-N | Date | SVP | Date | VP | Date |
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| | 2/19/88 | | 12/19/88 | | 2/19/88 |

02/18/88

*MOS.1 01.07/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/18-19/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3 - Hot Standby
  Decision was made to keep step counters in old (unfused) condition. Turbine Valve Test was performed - tripped properly, but had difficulty in getting Control Valves open after the test. During turbine test, a pressurizer spray valve controller circuit forced it's valve full open, resulting in a rapid depressurization event. Operator stabilized pressure by manually shutting valve and ensuring heaters full on quickly! During subsequent testing, a PORV was opened, but it's block valve had already been shut. No depressurization occurred. Shutting the block valve had to be done at the valve in containment.
- Unit 4 continues in cold shutdown - 180°F.

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

1. Kurt Kruger, Reactor Control Operator for Unit 3, deserves praise for reacting in a prompt, very efficient manner to the spray valve failure. Pressure dropped very rapidly, and safety injection would have occurred without his immediate intervention. There were other courses of action he could have taken which would not have resulted in stabilizing pressure in this case. Normally, operators are trained to place the Master Pressure Controller in manual and raise the output. This would not have worked in this case due to the grounding type of failure. He did exactly what was called for in this case.
2. The operations staff also made a very good decision to close the pressurizer power operated relief valve, following Gary Phipps' recommendation that some action be taken to avoid depressurization due to a potential for opening the PORV during troubleshooting of the pressure controls. The relief valve did open.

F. **Recommendations**

None

Completed By: P. L. Walker — *MOS Observer* Date: 02/18-19/88

Reviewed By: _____ — *Operations Superintendent- Nuclear* Date: 2/1[illegible]

Management Review By:

| | | | | | |
|---|---|---|---|---|---|
| [illegible] | 2/19/88 | [illegible] | 2/19/88 | [illegible] | 2/19/88 |
| *PM-N* | *Date* | *SVP* | *Date* | *VP* | *Date* |

02/18-19/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/18-19/88

From: D. J. Tomaszewski *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Shift turnover
- Periodic testing
- Pressurizer pressure control failure
- Power operated relief valve block valve failure
- Rod Position Indication System maintenance
- Pressurizer Pressure Control loop troubleshooting
- ROD Control system maintenance

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

1. The Unit 3 operator responded quickly and properly to the failure in the Pressurizer Pressure Control System. The failure was unusual in nature and could have easily resulted in safety injection. Lowest noted pressure was about 2100 psig well above the setpoint.
2. Technicians using print 5610-M-430-233 to troubleshoot the pressure control failure noted that the print had inaccuracies on it. Specifically, the controller for valve PCV-455B was labeled as PCV-455A. The technicians stopped and field verified the configuration before proceeding. The field configuration matched other plant configuration drawings. The drawing also does not show PC-3-444G/R and PC-3-444D/R connected. This drawing requires correction. The technicians were aware of the mechanism to get the drawing corrected.

F. Recommendations

1. Correct drawing 5610-M-430-233. This drawing is listed as Revision O, dated March 25, 1987 and was made from superceded drawing 5610-M-430-39, Rev 15
2. The construction crew working the Gland Exhaust Condenser had rigged a hose and power cord on the floor. A recent memo from the site Safety Supervisor requires these hoses to be rigged overhead to prevent personnel tripping on them. A construction safety man was on the job but did not spot the deficiency. Construction needs to ensure they stay up to date on site safety requirements.
3. PWO Tag 313654 dated 2/4/88 was on 4B Component Cooling Water Strainer stating it needed cleaning. Delta pressure appeared normal (0.5 psid). I checked with ASPN and found PWO originated but not approved. PWO's should be approved promptly after origination. The Nuclear Operator could have been misled by the tag into thinking he already had a PWO if the strainer needed cleaning at a later date.

Completed By: D. J. Tomaszewski — Date: 02/18-19/88
*MOS Observer*

Reviewed By: _____ — Date: _____
*Operations Superintendent- Nuclear*

Management Review By:
PM-N _____ Date 2/18/88 — SVP _____ Date 2/19/88 — VP _____ Date 2/19/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/19/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

**A. Plant evolutions observed**

- Morning meetings
- Shift briefings
- Scheduling meeting
- Control Room activities
  Unit 3 in Mode 3
  Unit 4 in Mode 5
- Isolation of 4A-4KV Bus due to water leakage from room air conditioner

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

Observed preparations and planning involved in the removal of the 4A-4KV Bus from service.
The PSN reviewed the breaker list and procedures relevant to the deenergization of the 4KV Bus. In addition he made a list of personnel to notify and how they would be affected as a result of the power outage (Security computers, etc.). He then asked the APSN to do an independent review. The PSN and APSN then discussed their reviews to ensure they were in agreement.

Subsequent to the PSN/ASPN review, they reviewed the evolution with the duty shift personnel by going over procedures, Piping and Instrument Diagrams and Control Wiring Diagrams and the actions to be taken. They discussed all equipment that would be out of service and any monitoring of equipment parameters that would be required.

The PSN requested that trainees perform as many of the evolutions as possible, under direction of licensed operators, as part of their On-The-Job training.

As a result of this careful planning the removal of the 4A 4KV Bus from service was a smooth operation with no problems.

F. **Recommendations**

None

Completed By: John A. Dyer — *MOS Observer* Date: 02/19/88

Reviewed By: L.W. Pearce — *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By:

| PM-N | Date | SVP | Date | VP | Date |
|---|---|---|---|---|---|
| | 2/22/88 | | 2/22/88 | | |

02/19/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/19-20/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Attended discussions on malfunctioning Rod Position Indicator and Power-Operated Relief Valve Block Valve.
- Watched recovery from a major 4160 volt Bus loss.

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

**B. Professionalism, Summary of Shift, Comments**

Recovery of the 4160 VAC Bus was smoothly performed. Control Room was very warm-made operators feel fatigued, but they remained alert and attentive. The staff caucused just prior to Bus recovery and informally planned out their actions. Applicable portions of several procedures were followed to restore equipment to full operability-nothing was missed, and everything appeared to function smoothly. A few pieces were balky, but worked. The operators prefer this mode of operation, as it affords them a degree of flexibility which would be unavailable to them if another unifying "Bus loss" procedure was fabricated for their guidance.

**F. Recommendations**

None

Completed By: P. L. Walker — *MOS Observer* Date: 02/19-20/88

Reviewed By: L. W. Pearce — *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By:

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| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/19-20/88

From: D. J. Tomaszewski *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Shift turnover
- Rod Position Indication system maintenance
- Source Range Nuclear Instrumentation maintenance
- Testing of MOV-536
- Restoration of 4A 4KV Bus
- Plant tour
- Testing of a Emergency Diesel Generator

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

Restoration of the 4A 4KV Bus was performed in a professional, business-like manner. Line ups were done per procedure and testing was performed to ensure equipment operability.

F. **Recommendations**

1. The unused status board on the north wall of the nuclear watch engineers office should be removed.
2. The shift technical advisors desk blocks access to vertical panel B on units and should be removed from the surveillance area.
3. The hearing protection boxes on each end of the 18 foot elevation of the turbine area were empty for the second night in a row. Someone should be assigned responsibility for keeping them filled on a routine basis.

Completed By: D. J. Tomaszewski — *MOS Observer* — Date: 02/19-20/88

Reviewed By: L. W. Pearce — *Operations Superintendent- Nuclear* — Date: 2/22/88

Management Review By:

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02/19-20/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/20/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

**A. Plant evolutions observed**

- Morning meeting
- Shift briefings
- Planning meeting
- Plant tours - secondary side and radiation controlled areas outside the containment
- Control Room operations
  Unit #3 Mode 3
  Unit #4 Mode 5

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

Administrative duties - Refer to section F.

E. **Professionalism, Summary of Shift, Comments**

1. This is a followup on my MOS daily report of 2/5/88 pertaining to the following:
   a. Use of the "On-The-Spot-Change" (OTSC) stamp discussed in Administrative Procedure AP 0190.86 and
   b. The requirement to attach sections 1,2,3 and 4 of the procedure in use to the sections or attachments being used in the field as discussed in Administrative Procedure O-ADM-201

There has been great improvement in both of the above areas. There are, however, procedures still being performed without:

1. An OTSC stamp on the procedure.
2. The OTSC stamp being completed and/or
3. Sections 1,2,3 and 4 being attached to sections being used in the field.

Personnel in general have varied opinions and understanding as to the purpose and use of the OTSC stamp.

AP 0190.86 requires that only each procedure in the "Document Control Spare Copy File" be stamped with the OTSC stamp. There are, however uncontrolled procedures still current that have not been revised since the use of the OTSC was initiated. These procedures, except for the "Document Control Spare Copy File", have not been stamped with an OTSC stamp. In addition if a controlled copy is xeroxed for use, it doesn't have the required stamp.

Recommendation in Section F

2. Shift briefings continue as a highpoint. Good information exchanges and status update.

F. **Recommendations**

1. When procedures are revised or upgraded make the first prerequisite a signoff requiring that the procedure has been verified against a controlled copy to be current and that it has been determined if the procedure is affected by an OTSC (recommended by two PSN's).
2. Issue a stamp to all holders of controlled documents, especially to operators (control room) and to the GEMS planners so they can stamp procedures when the need arises. The stamp needs to have the same information as recommended in (1) above.

3a. Operations continue to use the shift briefings as a vehicle to remind those in attendance of the requirement of these administrative functions.

b. Maintenance disciplines need to relay this information to the journeymen and GEMS planners.
This information should be discussed frequently until it becomes a working habit with everyone.

4. Issue a memorandum to all department heads reaffirming the importance of administrative duties in the document/procedure area.

Completed By: John A. Dyer *MOS Observer* Date: 02/20/88

Reviewed By: L.W. Pearce *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By: C.N.3 *PM-N* 12/22/88 *Date* ; M.D. *SVP* 2/22/88 *Date* ; _____ *VP* _____ *Date*

**FINAL PAGE**

02/20/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/20-21/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3 - Attempt to go critical
- Unit 4 - Cold shutdown - steady at 180°

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

Tonight's shift was the culmination of a long, frustrating week. Many small deficiencies have cropped up, in sequential order, to delay the startup of Unit 3. I commend the staff for their patience while the problems were corrected in an orderly, methodical fashion. They are operating very conservatively.

F. **Recommendations**

None

Completed By: P. L. Walker *MOS Observer* Date: 02/20-21/88

Reviewed By: L. W. Pearce *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By:

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02/20-21/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/20-21/88

From: R. C. Sontag *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Troubleshooting Unit 3 Rod Position Indications
- Pull of 4C ICW Pump
- End of shift and shift turnover meetings
- Unit 3 Reactor startup attempt
- Plant tour
  - -Unit 3 Turbine deck
  - -Unit 4 Mezzanine deck
  - -Common: RCA and Control Room

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

1. PWO green tags should be removed from equipment following repairs. Two green tags were observed on Unit 3 that were not valid. Tag No. C309836 dated 2/16/88 did not have a PWO. Tag No. 307445 on CV-2912 is still there although repairs have been made and valve was in service. In the case of N32 - the discrepency was brought to the attention of both the R.O. and the I&C Supervisor. However no one took any action.
2. Plant material condition has greatly improved over last several months. However, numerous instances were noted where cables, hoses, tools, ladders, etc. were abandoned in the plant.
3. Unit 3 Control Room north side is being used a a storage area. Boxes, file cabinets, chairs, a bulletin board, lockers and hard hats are stored on the floor, against the wall & racks. This clutter made access to the RPI racks difficult. In addition, the lighting on the north side of the Rod Position Indication (RPI) racks is nonexistent. Apparently one or two lighting fixtures are missing. Maintenance on the RPI's was conducted by flashlight.

E. **Professionalism, Summary of Shift, Comments**

1. Upon my arrival at the job site of 4C ICW pump, I noted that two of the four men on the job were without hard hats. The foreman arrived shortly thereafter and immediately corrected the men, without knowledge of my presence.
2. The startup attempt was professionally done. Three trainees took turns on the panel. Reactor Operator Eric Anderson conducted their training. All evolutions were thoroughly discussed before execution.

F. **Recommendations**

1. The lighting and clutter in Unit 3 Control Room should receive near term attention.
2. Added attention should be placed on cleanup and followup after maintenance/construction efforts.

Completed By: R. C. Sontag *MOS Observer* Date: 02/20-21/88

Reviewed By: L.W. Pearce *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By: CJB 12/22/88 *PM-N* *Date* SVP 2/22/88 *SVP* *Date* _____ *VP* / *Date*

02/20-21/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/21/88

From: John A. Dyer *(MOS Observer)* Shift: ☒ Day ☐ Night

A. **Plant evolutions observed**

- Morning meeting
- Shift briefings
- Plant tours
- Control Room Operations
  Unit 3 Mode 2 - Auxiliary Feed Pump operability verification and nitrogen backup
- Installation of motor on 4C Intake Cooling Water Pump

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Area(s) for improvement**

None

E. **Professionalism, Summary of Shift, Comments**

None

F. **Recommendations**

None

Completed By: John A. Dyer *MOS Observer* Date: 02/21/88

Reviewed By: L.W. Pearce *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By:

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02/21/88

| 0-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/21-22/88

From: P. L. Walker *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Unit 3
  Power escalation from 2% to 25%
  Turbine roll - synchronize to grid
  Feed System placed in automatic
- Unit 4
  Heatup from 200°F to 320°F

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

The Area Radiation Monitoring System has a majority of it's channels out of service. The on-line radiation monitoring capability is surprisingly far under what it should be, and has to be supplemented by periodic surveys.

E. **Professionalism, Summary of Shift, Comments**

The staff did well tonight - there were some very complex maneuvers to perform requiring a great deal of communication both inside and outside the Control Room. During the middle of preparations for Turbine Roll, the Feedwater Pump quit, and the operators handled the transient very nicely.

F. **Recommendations**

I'm surprised at the amount of time it is taking to resolve the technical specification issue. Again and again, we are encountering differences between the actual (original) and the interim (standard) specifications. My previous recommendation still stands.

Completed By: P. L. Walker *MOS Observer* Date: 02/21-22/88

Reviewed By: L.W. Pearce *Operations Superintendent- Nuclear* Date: 2/22/88

Management Review By:

C/B 12/22/88 *PM-N Date*

SVP 12/22/88 *SVP Date*

*VP Date*

02/21-22/88

| G-ADM-019 | Management on Shift (MOS)<br>MOS DAILY REPORT | Page 1 |
|---|---|---|

To: Operations Superintendent - Nuclear Date: 02/21-22/88

From: R. C. Sontag *(MOS Observer)* Shift: ☐ Day ☒ Night

**A. Plant evolutions observed**

- Shift turnover briefing
- 4C ICW Pump work
- Unit 3 Turbine roll, synchronization & load to 25%
- Plant tour

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Area(s) for improvement**

When Unit 3 hogging jet air ejector was placed in service, large amounts of hot water and steam were expelled into the turbine deck because the R-15 radiation detector had been removed from the system leaving the system open to atmosphere. Operations was not aware that the detector had been removed. There was no clearance. I & C peak crew was not aware that work was being performed on R-15 or what the status of the work was.

This seems to be a breakdown of communications between Maintenance and Operations as well as within Maintenance itself.

E. **Professionalism, Summary of Shift, Comments**

The conduct of Operation's personnel while bringing the unit on the line was very good. Three Reactor Operators and three trainees manned the control board during this evolution. Communications were informal but good. Teamwork was evident. Good work!

The I & C peak crew responded well to the problem with the R-15 detector and was able to seal the air ejector system in a matter of minutes.

F. **Recommendations**

In interviewing the I & C Field Supervisor whose crew removed R-15, he said that he received permission to remove the detector without a clearance on January 23, 1988. At that time the unit was down and it appeared that the detector would be out for only a short period of time. I recommend that positive controls or policies be considered when allowing maintenance to take place on systems without a clearance, that will ensure that the system is returned to normal.

Completed By: R. C. Sontag — *MOS Observer* — Date: 02/21-22/88

Reviewed By: L. W. Pearce — *Operations Superintendent- Nuclear* — Date: 2/22/88

Management Review By:

| PM-N | Date | SVP | Date | VP | Date |
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