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 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 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 mgt-on-shift weekly summary rept.

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AUGUST 3 1988

L-88-332

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

Dear Dr. Grace:

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

Pursuant to the Nuclear Regulatory Commission Order dated October 19, 1987, the attached summary of Management-on-Shift (MOS) reports is submitted. The Plant Supervisor-Nuclear Shift Reports are also being submitted.

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

Very truly yours,

W. F. Conway
Senior Vice President - Nuclear

WFC/SDF/gp

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

mos001

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PEOPLE...SERVING PEOPLE *FFB*

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMARY REPORT

WEEK STARTING: 07/22/88

PAGE 1 OF 2

Six MOS Observers were on shift: Peter L. Walker, Westinghouse Electric Corporation (07/22-25/88, nights); Richard Coulthard, Westinghouse Electric Corporation (07/22-24/88, days); Terry L. Fulkerson, Westinghouse Electric Corporation (07/25-28/88, days); Andrew P. Drake, Westinghouse Electric Corporation (07/25-29/88, nights); Jose Donis, Turkey Point Nuclear Plant Project Supervisor (07/22-24/88, nights); Clyde D. Kelly, Turkey Point Nuclear Plant Maintenance/Specialty Training Supervisor (07/24-29/88, nights).

Both Units 3 and 4 operated in Mode 1 for the duration of the reporting period. No immediate safety problems were identified by any Observer.

No questionable work practices were noted by either the Independent Observers or the Turkey Point Observers. The Independent Observers noted three areas of improvement, as follows:

- A recommendation to test the plant alarm horns weekly, during the day.
- A comment that two hearing protection supply boxes were found empty.
- A question on the status of data collection on Waste Gas System leaks.

The Turkey Point Observers noted two areas for improvement, as follows:

- An apparent conflict between two procedures used when cleaning Component Cooling Water heat exchangers.
- A followup inspection of the temporary water treatment plant, with two additional recommendations for control of the area.

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMARY REPORT

WEEK STARTING: 07/22/88

PAGE 2 OF 2

Two questionable work practices and six areas for improvement were noted by the Plant Supervisors - Nuclear (PSNs). One questionable work practice involved a possible violation of the procedure used to determine the need to clean a CCW heat exchanger. A related concern, under areas for improvement, involved an apparent improvement in heat exchanger efficiency which was not expected since the heat exchanger had not been cleaned. These two concerns were echoed by the Independent Observers and the Turkey Point Observers, with a total of eight recommendations made between them.

The second questionable work practice concerned the labelling of the Gas Bottle Storage House areas. The remaining five areas for improvement are as follows:

- A repeat question on auxiliary building roof leaks.
- A conflict between information tags on the Intake Cooling Water strainers, and the operator's log instructions.
- A recommended increase in the frequency of PSN reviews of the logs of Fire Detection Panel trouble alarms.
- Two recommendations resulting from a failure of the generator hydrogen pressure regulator.

ATTACHMENT: MOS DAILY REPORTS

RANDY HART

0-ADM-019

Management on Shift (MOS)
MOS DAILY REPORT

Page

1

To: Operations Superintendent - Nuclear

Date: 07/22/88

From: Richard Coulthard
(MOS Observer)

Shift: ☒ Day
☐ Night

A. Plant evolutions Observed

- Units 3 and 4 at 100% power
- 0715 Plan of the Day meeting
- 1535 shift turnover meeting
- Conduct of Unit Power Range Channel N-43 tests in accordance with 4-OSP-59.4 and 4-PMI-59.10

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

- All shift operations conducted in a professional manner.
- During preparations for transferring boric acid between storage tanks, a Control Room operator started discussing with me methods to improve procedure O-OP-046, "Chemical Volume Control System (CVCS), Boron Concentration Control." Rather than become technically involved and turn the issue into a MOS item, I suggested he contact the PUP representative on shift. PUP was quite responsive in researching the issue and coming to the Control Room to review the alternate methods with the operator. The availability of PUP representatives on shift can facilitate operator feedback and input to the procedure effort.

Completed By: Richard Coulthard
MOS Observer

Date: 07/22/88

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

Date: 7/25/88

Management Review By: *[Signature]* 1 7/25/88 *[Signature]* 1 7/25/88
PM-N Date SVP Date VP Date
07/22/88

To: Operations Superintendent - Nuclear

Date: 07/22-23/88

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

A. Plant Evolutions Observed

° Units 3 and 4, 100% power operation

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Smooth quiet shift. Good disposition of a crack found in 3B1 Circulating Water Pump. Attention was paid in a timely fashion and a decision was made to have it evaluated by Maintenance and Quality Control in the morning.

Completed By: Peter L. Walker
MOS Observer

Date: 07/22-23/88

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

Date: 7/25/88

Management
Review By:

PM-N 1 7/25/88 EC 1 7/25/88 VP 1
Date Date Date
7/22-23/88

To: Operations Superintendent - Nuclear

Date: 07/22-23/88

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

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Shift turnover meeting
- Troubleshooting 4B Reactor Coolant Pump (RCP) seal leakoff

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Good PSN response to report of a crack in the 3B1 Circulating Water Pump.
Immediate action taken:

- PSN inspection
- Mechanical Maintenance alerted
- PWO written

Evaluation/investigation ongoing.

Completed By: J. M. Donis
MOS Observer

Date: 07/22-23/88

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

Date: 7/25/88

Management
Review By:

[Signature] 1 7/25/88 *[Signature]* 1 7/25/88
PM-N Date SVP for Date VP Date
07/22-23/88

Date 07/23/88

Shift Report

Shift _____ Day _____

Shift Management

PSN Jones APSN Murphy/Reese NWE Vetromile

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Routine operations

Reviewed By L.W. Reese Date 7/25/88 Actions Completed _____ Date _____

Date 07/23/88

Shift Report

Shift Mid

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

A construction employee working on 3B1 Circulating Water pump informed midshift ANPO there appears to be cracking in the upper pump housing that he noticed while performing his duties. The ANPO immediately notified PSN after he personally investigated the problem and felt a concern that there may be a problem. The crack is located under the deck plating in an extremely tight area. Both individuals mentioned above should be commended for their actions to identify a potential problem which could degrade unit reliability. PSN commended the ANPO for his correct actions and excellent observations.

Reviewed By S.W. Pearce Date 7/25/88 Actions Completed Date

To: Operations Superintendent - Nuclear

Date: 07/23/88

From: Richard Coulthard
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- 100% power level operation on Units 3 and 4
- 0735 and 1535 shift turnover meetings
- Conduct of TP-461 on Unit 3 to leak-test valves FCV-113A and FCV-113B

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

At the start of the shift's Reactor Coolant System (RCS) leak rate test, the Volume Control Tank (VCT) pressure was about 24 psig and would rise a few psig when the VCT level was raised. A discussion on maintaining 20 psig in the tank ensued, but it was decided not to vent the tank. This process is done by OSP-47.1, and involves using 2 operators in the Auxillary Building collecting data, and risks a gaseous release to the Auxillary Building. The above procedure was overhauled in October, 1987, to obtain data to determine the problems associated with the waste gas system. The Operations group's desire to avoid venting the VCT in this instance appeared justified.

What is the progress in obtaining data to resolve the waste gas system leakage problems? Unit 4 shutdown is only about two months away and the VCT vent is used extensively for degassing.

E. Professionalism, Summary of Shift, Comments

Quiet shift.

Completed By: Richard Coulthard
MOS Observer

Date: 07/23/88

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

Date: 7/25/88

Management
Review By:

PEC 1 7/25/88 PEC 1 7/25/88 VP 1
PM-N Date SVP Date VP Date
07/23/88

To: Operations Superintendent - Nuclear

Date: 07/23-24/88

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

A. Plant Evolutions Observed

- ° Units 3 and 4 at 100% power
- ° Shift turnover meeting

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

None

Completed By: J. M. Donis
MOS Observer

Date: 07/23-24/88

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

Date: 7/25/88

Management
Review By:

PM-N 1 7/25/88 SVP 1 7/25/88 VP 1 7/25/88
Date Date Date
07/23-24/88

To: Operations Superintendent - Nuclear

Date: 07/23-24/88

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

A. Plant Evolutions Observed

- Units 3 and 4, 100% steady state operations

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Quiet shift.

Completed By: Peter L. Walker
MOS Observer

Date: 07/23-24/88

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

Date: 7/25/88

Management
Review By:

PEC 1 7/25/88 PEC 1 7/25/88
PM-N Date SVP Date VP Date
07/23-24/88

To: Operations Superintendent - Nuclear

Date: 07/24/88

From: Richard Coulthard
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- ° 100% power operations on Units 3 and 4
- ° 0735 and 1535 shift turnover meetings

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Quiet shift with routine operations

Completed By: Richard Coulthard
MOS Observer

Date: 07/24/88

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

Date: 7/25/88

Management
Review By:PEC 17/25/88 PEC 17/25/88
PM-N Date SVP Date VP Date

07/24/88

To: Operations Superintendent - Nuclear

Date: 07/24-25/88

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

A. Plant Evolutions Observed

- 100% Steady state operations, both units

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Both units are running smoothly. Routine operations are in progress.

Completed By: P. L. Walker
MOS Observer

Date: 07/24-25/88

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

Date: 7/25/88

Management
Review By:PL 1 7/25/88 PL 1 7/25/88
PM-N Date SVP Date VP Date

07/24-25/88

To: Operations Superintendent - Nuclear

Date: 07/24-25/88

From: C. D. Kelly
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Peak and mid shift operations, Units 3 and 4 at 100% power
- ° Peak shift Mechanical Maintenance, #4 Component Cooling Water (CCW) Heat Exchanger
- ° Shift turnover meeting at 11:40 PM

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

During the cleaning of #4A CCW Heat Exchanger on the peak shift, the Hydroblaster became inoperative due to plunger rod problems which prevents the unit from developing pressure. Because of repair time and the fact that Maintenance Instruction #030002 still reflects 24 hour LCO time frames, the peak shift foreman contacted QC and received permission to shift over to Maintenance Procedure No. 4-PMM-030.1 "Component Cooling Water Heat Exchange Cleaning" in order to clean #4A CCW HX using section 6.3.6 which covers Conco cleaning. Several actions need to be presented to clarify proper work controls to be used. ~~Both procedures and maintenance instruction are attached.~~ NOT SUBMITTED TO NRC

1. Procedures *-PMM-030.1 have sections (6.3.5) which cover the hydroblast cleaning method. Because of this, Maintenance Instruction No. 030002 should not be used.
2. Maintenance Instruction No. 030002 has not been updated to reflect the 72 LCO upgrade, nor does it reference PMM-030.1.
3. Procedures *-PMM-030.1 need to be revised to reflect proper sequence and closure based on which method is used for cleaning.

The mid shift Mechanical Supervisor will be bringing this item to his supervisors attention.

E. Professionalism, Summary of Shift, Comments

- Both peak and mid operations personnel conducted themselves in a very orderly fashion.
- I observed very good pre-task communications between an RO and an NTO prior to the work being performed.
- Excellent use of "Plan of the Shift" by all departments.
- All Security and Firewatch personnel encountered during several walkdowns were alert and very aware of my presence.

Completed By: C. D. Kelly
MOS ObserverDate: 07/24-25/88Reviewed By: L. W. Pearce
Operations Superintendent - NuclearDate: 7/25/88Management
Review By:

PM-N 17/25/88 SVP 17/25/88 VP 1
Date Date Date
07/24-25/88

Date 07/24/88

Shift Report

Shift _____ Day _____

Shift Management

PSN Jones APSN Murphy/Reese NWE Vetromile

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Routine operations

Reviewed By L.W. Peace Date 7/25/88 Actions Completed _____ Date _____

Date 07/24/88

Shift Report

Shift Mid

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

In the recent weeks heavy rainstorms have been occurring and all Operators, NWEs, PSNs, plus various support personnel have been calling about large puddles of water in Electrical Switch gear rooms, etc. The Auxiliary Building has some of the worst rain leakage. Wet floors are also a safety hazard.

Recommendation: Have Construction tour all switch gear rooms and Auxiliary Building during the next few weeks to document puddles of water or actual leakage during storms. Then set up a program to seal roof leaks. Feedback requested.

C. Good Practices/Professionalism Observed

Nuclear Turbine operators have been supplying PSN with several lists of all PWO'd steam and water leaks on the secondary with their own evaluation if the leaks are propagating or staying essentially the same. They request I forward these lists to the Mechanical Maintenance Department to allow them to schedule the worst leaks for maintenance.

Reviewed By S.W. Pearce Date 7/25/88 Actions Completed _____ Date _____

To: Operations Superintendent - Nuclear

Date: 07/25/88

From: Terry L. Fulkerson
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- 100% steady state, Units 3 and 4
- Shift turnover, day to peak
- Morning meeting

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

1. Beginning of shift meeting was very informative and professional.
2. I&C was not present at meeting.

Completed By: Terry L. Fulkerson
MOS Observer

Date: 07/25/88

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

Date: 7/26/88

Management Review By: SEC 1 7/26/88 BMS for JSO 1 7/26/88 VP 1 7/26/88
PM-N Date SVP Date VP Date

07/25/88

To: Operations Superintendent - Nuclear

Date: 07/25-26/88

From: C. D. Kelly
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Peak shift and midnight operations, Units 3 and 4 at 100% power
- ° Shift meeting at 11:40 PM
- ° Plant area walkdowns:
 - Condenser areas # 3 and 4
 - Temporary Water Treatment Plant (WTP) facilities at MOS Coordinators request
- ° General maintenance activities
 - Battery charger preventive maintenance
 - Clearance and PWO preparation by Mechanical

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

At the request of the MOS Coordinator, a follow-up walkdown of the temporary WTP facilities was made. Reference MOS items #88-1155 and 88-1356.

Comments: The area in and around the temporary WTP facilities certainly is not set up or maintained in a safe manner. I consulted the peak shift Maintenance Foreman, who inspected the area with me, as well as Operations personnel. Both groups did not approve of the conditions but also indicated there was no reason for FPL personnel to be in that area, except for an access path to the Intake which was fairly clear. Therefore, the following recommendations are made for consideration.

1. Rope off the entire area to prevent access by FPL personnel.
2. If this installation will be a long term facility, request the contractor to set up the equipment, cables and hoses in a safer, more professional manner. This includes a drain hose for waste water down to the Intake versus the present waterfall down the embankment.

E. Professionalism, Summary of Shift, Comments

1. Excellent communications between Operations and Maintenance personnel.
2. Observed some Security personnel making their rounds checking access points. They appear to be sharp and taking care of business.

Comments: A definite appreciation is being vocalized by Operations personnel on the Maintenance effort in clearing out repairs and reducing some of their headaches. This message needs to be passed on to the Maintenance groups.

Completed By: C. D. Kelly
MOS Observer

Date: 07/25-26/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 7/26/88

Management Review By: [Signature] PM-N 7/26/88 Date [Signature] SVP 7/26/88 Date [Signature] VP 7/26/88 Date

To: Operations Superintendent - Nuclear

Date: 07/25-26/88

From: Andrew P. Drake
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Peak to mid shift turnover
- Mid shift briefing
- Normal operation and logs

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

No comments

E. Professionalism, Summary of Shift, Comments

No comments

Completed By: Andrew P. Drake
MOS Observer

Date: 07/25-26/88

Reviewed By: AW Pearce
Operations Superintendent - Nuclear

Date: 7/26/88

Management
Review By:

SEC 17/26/88 PM-N Date SVP 17/26/88 Date VP 17/26/88 Date

07/25-26/88

Date 07/25/88

Shift Report

Shift _____ Days _____

Shift Management

PSN Jones APSN Murphy/Guyer NWE _____

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Routine operations

Reviewed By *S. Pearce* Date 7/26/88 Actions Completed _____ Date _____

Date 07/25/88

Shift Report

Shift Peaks

Shift Management

PSN Salkeld APSN Guyer NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

The Fire Protection group is doing a study of the frequency and duration of trouble alarms on the Fire Detection panel (C39A). During this study the trouble alarm is silenced and a Fire Watch records each trouble alarm. The log of these trouble alarms are given to the PSN at midnight each day. This is not frequent enough to determine if an alarm point should be PWO'd and a Fire impairment tag hung. The Fire Watch and Fire Protection Supervisor were instructed to inform the PSN any time a trouble alarm remains in for greater than 30 minutes or comes in repeatedly over a period of time, and to give their logs to the PSN for review each shift rather than daily.

C. Good Practices/Professionalism Observed

Reviewed By *[Signature]* Date 7/26/88 Actions Completed Date

Shift _____ Mid _____

Reviewed By J.W. Platts Date 7/25/88 Actions Completed _____ Date _____

0-ADM-019

Management on Shift (MOS)
MOS DAILY REPORT

Page

1

To: Operations Superintendent - Nuclear

Date: 07/26/88

From: Terry L. Fulkerson
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- ° 100% steady state on Units 3 and 4
- ° Day to peaks turnover

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Shift turnovers were very informative.

Completed By: Terry L. Fulkerson
MOS Observer

Date: 07/26/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 7/27/88

Management
Review By:

[Signature] 7/27/88 [Signature] 7/27/88 [Signature] 7/27/88
PM-N Date BVP Date Date

To: Operations Superintendent - Nuclear

Date: 07/26-27/88

From: Andrew P. Drake
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- peak to mid shift turnover
- Mid shift briefing
- Repairs on Unit 4 hydrogen panel
- Walkdown of Turbine building
- Intake Cooling Water (ICW) discussion with Shift Technical Advisor (STA) and PSN

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

1. The latest results on the ICW heat exchangers caused a significant amount of concern by the STA and PSN. The STA plotted the data and found that the heat exchangers improved their performance even though none had been cleaned. The STA brought this to the attention of the PSN who called the Lead Engineer for an explanation. The Lead Engineer stated that the data showed the heat exchangers had not experienced any fouling versus improved heat transfer by cleaning. Further investigation into the method of collecting, analyzing and reporting data has led to the following recommendations:
 - a. A tolerance band based on the previous data should be determined for a retest criterion (i.e., if the new test data is ± 1 degree F from the previous, a second test should be performed by another individual).
 - b. Any major verified differences from previous or expected trends should be explained to the STA instead of just sending the data.
 - c. Strict controls should be in place for collecting (i.e., method, frequency) and verifying the data. Each person taking data must do it exactly the same way or the trend data will not be valid.
 - d. For at least the past 3 days (and probably longer) the ICW temperature has been above the 2 degree F margin, but heat exchangers have not been cleaned. TP-440 states that the heat exchanger shall be cleaned when you exceed the 2 degree F margin.
 - e. On latest data two different sets of heat exchangers were tested at the same time (11:00 logged on both sheets). This does not seem physically possible given their distance from each other.

2. The site evacuation and fire horn tests do not seem to be on a regular test schedule. The tests are also always at night. The only time plant personnel get to hear the alarms are General Employee Training (once a year). A weekly or monthly daytime test would help maintain familiarity with the horns. This can be accomplished fairly easily. a) Perform the test at the same time and same date/day (i.e., every Friday at 9 AM). b) Inform everyone on site of the regular test schedule so they will be aware of the test when it occurs.

B. Professionalism, Summary of Shift, Comments

The mid shift PSN and STA worked well together to resolve the ICW heat exchanger questions. Both shifts were well run and operated smoothly.

Completed By: Andrew P. Drake
MOS Observer

Date: 07/26-27/88

Reviewed By: Operations Superintendent- Nuclear

Date: _____

Management
Review By:

ASC 17/27/88 me 7/27/88 7/27/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 07/26-27/88

From: C. D. Kelly
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Peak and mid shift operations, Units 3 and 4 at 100% power
- ° Mechanical Peak/mid shift turnover meeting at 10:40 PM
- ° Shift meeting at 11:40 PM
- ° #3 and 4 Component Cooling Water (CCW) Heat Exchanger (HX) performance monitoring process

B. Immediate Safety Problems

None

C. Questionable Work Practices

Had to remind two I&C Specialists to put on hard hats. Spoke to midnight I&C Supervisor - problem taken care of.

D. Areas for Improvements

As a followup to my previous MOS shift concerns on the administration process being used in CCW Hx. performance, it appears there is still reason for concern. Last night there was a 3 to 4 degree "increase" in the A and B CCW Hxs on both units and no cleaning had taken place. (See attached MOS report dated 3/9-3/10 and recommendations). After discussions with the STA, PSN and A. Drake (MOS), there appears to be several areas of concern which are similar to those reported before. (See A. Drake and T. Anderson MOS reports).

Comments: Aside from the technical aspects of the CCW HX performance monitoring process, there lies an obligation to provide the PSN with logical results in order for him to make decisions leading into plant equipment being placed in or taken out of service.

This item and the concerns should be looked at with this thought in mind.

E. Professionalism, Summary of Shift, Comments

Excellent shifts, very quiet and discussions on CCW HX concerns were very productive. The PSN took a very high level of ownership.

Completed By: C. D. Kelly
MOS Observer

Date: 07/26-27/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 7/27/88

Management
Review By:

[Signature] 12/27/88 [Signature] 12/27/88 [Signature] 7/27/88
PM-N Date RVP Date JP Date
07/26-27/88

Date 07/26/88

Shift Report

Shift Mids

R. Hart

Shift Management

PSN Schinkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

Tonight the main generator hydrogen pressure increased from 75 psig to approximately 90 psig due to hydrogen regulator leakby. No alarms were received locally or in the Control Room to alert the Operator. PWOs are outstanding for this problem. No procedural guidance exists to vent hydrogen gas from the main generator for this situation.

Actions taken: Isolated hydrogen inlet to regulator. Due to possibility of hydrogen increased leakage from seals and possible localized high hydrogen concentrations. Utilized ADM-207 to vent hydrogen pressure to normal.

Recommend: Procedural guidance. Hydrogen panel alarm functions restored.

C. Good Practices/Professionalism Observed

Unit 4 RCO made excellent observation of main generator overpressurization by hydrogen system. He appropriately requested Resistance Temperature Device (RTD) monitor printouts to analyze and was able to pinpoint possible regulator failure at approximately 0350.

Reviewed By *W. Spence* Date 7/26/88 Actions Completed Date

To: Operations Superintendent - Nuclear
07/22/88

Date: 07/27/88

From: Terry L. Fulkerson
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- 100% power, units 3 and 4
- Shift turnover, mids to days
- Shift turnover, days to peaks
- High temperature problems on Unit 3

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

The temperatures on the Unit 3 Containment and the intake temperatures began to rise. The intake temperature exceeded the 95° F limit as delineated in ADM-021. The Containment temperature rose to 118° F. There was a great deal of discussion generated on how to handle the problem. The coordination between Operations, Management, and Engineering was excellent.

Completed By: Terry L. Fulkerson
MOS Observer

Date: 07/27/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 7/28/88

Management
Review By:

[Signature] 17/28/88 [Signature] 17/28/88 [Signature] 17/28/88
PM-N Date SVP Date VP Date

07/27/88

To: Operations Superintendent - Nuclear

Date: 07/27-28/88

From: C. D. Kelly
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Peak and mid shift operations, Units 3 and 4 at 100% power
- ° Shift meeting at 11:40 PM
- ° Canal temperature monitoring/Component Cooling Water (CCW) Heat Exchanger monitoring process

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvements

None

E. Professionalism, Summary of Shift, Comments

Shifts were quiet, well informed and organized.

Training brief on new Rod Position Indication (RPI) non-linear scales was read to crew.

Completed By: C. D. Kelly
MOS Observer

Date: 07/27-28/88

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

Date: 7/28/88

Management
Review By:

PM-N

Date

SVP

Date

VP

Date

07/27-28/88

To: Operations Superintendent - Nuclear

Date: 07/27-28/88

From: Andrew P. Drake
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Peak to mid shift turnover
- Mid shift briefing
- Normal operations/logs

B. Immediate Safety Problems

No comments

C. Questionable Work Practices

No comments

D. Areas for Improvement

No comments

E. Professionalism, Summary of Shift, Comments

Quiet night, both shifts (peak and mid) well run.



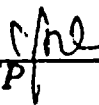

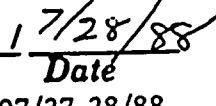
Completed By: Andrew P. Drake
MOS Observer

Date: 07/27-28/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 7/28/88

Management
Review By:

				
PM-N	Date	SVP	Date	VP
				Date
				07/27-28/88

Date 07/28/88

Shift Report

Shift R. Nait
Peak

Shift Management

PSN Salkeld APSN Guyer NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Routine operations

Reviewed By Sarkis

Date 7/29/88

Actions Completed

Date

To: Operations Superintendent - Nuclear

Date: 07/28/88

From: Terry L. Fulkerson
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- 100% power, Units 3 and 4
- Shift turnovers, days - peaks, mids - days
- Analog Rod Position Indication (ARPI) indicator changeouts on Unit 4 control bank D

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

1. Shift turnovers were good and complete.
2. Coordination between I&C and Operations was very good for ARPI change out.


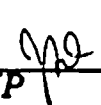
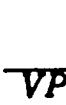
Completed By: Terry L. Fulkerson
MOS Observer

Date: 07/28/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 7/29/88

Management
Review By:

 PM-N 17/29/88 Date  SVP 17/29/88 Date  VP 1 Date
07/28/88

To: Operations Superintendent - Nuclear

Date: 07/28-29/88

From: Andrew P. Drake
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Peak to mid shift turnover
- Unit 3 control/shutdown rods operability test
- Unit 4 Component Cooling Water (CCW) heat exchanger performance test
- Normal operations/logs

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

No comments

E. Professionalism, Summary of Shift, Comments

1. I observed Kevin Greaves collect the data for the 4A CCW heat exchanger performance test. During this time we discussed the techniques used to collect the data and the effects they had on the test accuracy. Kevin performed several checks during the data collection which are not required by procedure but verify the static stability of the heat exchanger during the test. He also adjusted the pressure difference (dp) gage used to measure flow to reduce the large fluctuations on the indicator. These checks should be proceduralized so all tests are performed the same way and errors are minimized.
2. Both shifts (peaks and mids) were well run.
3. Both (north and south) ear protection boxes on the ground floor of the turbine building are empty. Please fill. No response necessary.

Completed By: Andrew P. Drake
MOS Observer

Date: 07/28-29/88

Reviewed By: *Ku Ponce*
Operations Superintendent - Nuclear

Date: 7/29/88

Management
Review By:

JEC 17/29/88 *VP* 17/29/88
PM-N Date SVP Date VP Date
07/28-29/88

To: Operations Superintendent - Nuclear

Date: 07/28-29/88

From: C. D. Kelly
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Peak and mid shift operations - both units at 100% power
- 11:40 PM shift meeting
- General I&C maintenance activities
- Component Cooling Water (CCW) heat exchanger - review/discuss data with engineer
- CCW heat exchanger - review/discuss mechanical PWO work package

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Quiet shifts, all personnel were alert and conducted activities in a professional manner.

Had a very constructive discussion with the CCW heat exchanger test engineer, (MOS) A. Drake, and STA concerning identified items in MOS reports early in week. The procedure changes, when implemented, will ensure consistent trending and also aid in having better work controls for the test engineers. I suggested that it would be very positive if the test engineers met with the PSNs and STAs to establish better communications so that the PSN would have a better understanding of the tests as well as control over activities affecting his plant equipment. This was agreed to and understood.

Comment:

The improvements in the conduct of Operations and Backshift Maintenance between my MOS assignments have been excellent. The most improved area is that of cross-functional communications. When it takes place, problems are solved or avoided which equates to success. I really believe our personnel are realizing this fact based on the effort they are putting out.

Completed By: C. D. Kelly
MOS Observer

Date: 07/28-29/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 7/29/88

Management
Review By:

[Signature] 1 7/29/88 [Signature] 1 7/29/88
PM-N Date SVP Date VP Date

Reviewed By S.W. Prince Date 7/27/88 Actions Completed _____ Date _____