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SEPTEMBER 14 1988

L-88-406

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,

DA Sagel

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

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MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMARY REPORT

WEEK STARTING: 09/02/88

PAGE 1 OF 2

Six MOS Observers were on shift: Craig D. Bersak, Westinghouse Electric Corporation (09/02-04/88, days); Peter L. Walker, Westinghouse Electric Corporation (09/02-05/88, nights); David Powell, Operating Experience Feedback Coordinator, Juno Beach (09/05-08/88, days); James E. Jones, Westinghouse Electric Corporation (09/05-09/88, nights); Max Ammerman, INPO HPES Coordinator, Turkey Point Nuclear Plant (09/02-07/88, nights); and Wallace R. Williams, Jr., Assistant Superintendent, Planned Maintenance, Turkey Point Nuclear Plant (09/07-09/88, nights).

Units 3 and 4 operated in Mode 1 for the duration of the reporting period.

No immediate safety problems or questionable work practices were noted by any observer during the reporting period.

The independent observers noted seven areas for improvement, as follows:

- Two items on hardware problems.
- One concern regarding operator aids.
- One complaint about the difficulty in having to deal with two technical specification documents.
- One item on communication of changes.
- A concern over inadequate preparation for a surveillance.
- A reported difficulty in using the Nuclear Jobs Planning System computer.

The Turkey Point observers noted four areas for improvement, as follows:

- A discussion of hydroblast cleaning of component cooling water heat exchangers, with two recommendations.
- Two items on marking of indicators.
- One recommendation to improve a procedure.

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMMARY REPORT

WEEK STARTING: 09/02/88

PAGE 2 OF 2

The Plant Supervisors-Nuclear noted five areas for improvement, as follows:

- Two recommendations for improving communications.
- One concern regarding inadequate troubleshooting.
- A recommendation to tape test leads used in relay racks.
- A concern over scheduling of extra manpower.

ATTACHMENT: MOS DAILY REPORTS

Date 09/02/88

Shift Report

Shift Ed Lyons
Days

Shift Management

PSN Schimkus APSN Reese NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

The Plan of the Day (POD) was recently changed to a new format in which the PSN should be able to easily follow job progress on items that various departments are working, across 3 shifts. Next, the PSN was requested to fill-in-the-blanks on the POD using any of 9 codes (per each job) during the control room pre-shift briefings. This POD is to be passed from PSN to PSN each day until all the blanks are filled with actual job status. The PSN must then transmit the filled in POD to the Operations Supervisor for review. This new system is supposed to "help" the PSN to be more aware of all work activities occurring in the plant. In actuality, this has become a new burden in which the PSN must track the effectiveness of how the POD is succeeding or failing to perform it's design function. Why is the POD ineffective?

1. The POD has too much bulk! The POD contains every job that has been identified by plant work order to need attention "but" it doesn't take into account the personnel actually available to work the jobs.
2. The Plan of POD is not divided orderly into Days - Peaks - Mids, but instead each work group has it's work processes scheduled haphazardly (peak, mid, mid, peak, day, etc.) down each page of the POD.
3. The POD should have two sections based on order of importance.
 1. The first section should contain:
 - ° Cover page
 - ° Hot Items list page
 - ° Limiting Condition of Operation (LCO) page
 - ° Load threatening periodics to be performed or surveillances in their grace period. (Technical Specifications required) page.
 - a. Mechanical work list page
 - b. Instrument and control work list page
 - c. Electrical work list page
 - d. Technical Department list page
 - e. Construction Department work list page
 - f. Procurement Department work list page
 - g. Engineering Department work list page
 - h. Fire Protection impairments page
 - i. Lab Department work list page
 - j. Health Physics work list page.

Reviewed By SW Teare Date 9/6/88

Continuation Page

Items a thru j shall only contain work items that are causing load loss, causing LCOs to exist, have the potential to affect unit performance or safety, by performance of the job. These jobs should look strictly at the 24 hour time frame of the POD.

° Hot items should also be placed in section I with a status column.

2. Section 2 of the POD should be a list of items that are to be worked as manpower permits. This list can contain all of the filler material which makes our POD so large but should be used as a contingency list when Section 1 jobs are completed or on hold - or when extra manpower exists.

Recommend:

1. Each responsible department fill out the status column of the POD and give this to the PSN at the pre-shift briefing.
2. Look at a sectionalized POD as described in this shift report.

C. Good Practices/Professionalism Observed

Routine operations

Date 09/06/88

Shift Report

Shift _____ Days _____

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

It was passed over on shift turnovers between the I&C Department that Unit 4 FCV-4-498 could not be placed on hand loader due to erratic valve motion caused by leaking tubing on feedwater isolation solenoids - thus it would require bringing unit load from 290 MWE to 60 MWE before I&C could perform calibration checks on FCV-4-498 I/P. On dayshift, the PSN did a visual "snoop" check of this leak problem and found extremely minimal air leakage on air fittings. This was showed to the I&C dayshift supervision who concurred with PSN finding.

Actions: Commence placing FCV-498 on hand loader at present power level for I&C calibration checks.

Recommend: More in-depth research into possible repairs prior to recommendations of reducing unit load. Recommend Belzona of leaking air fittings.

C. Good Practices/Professionalism Observed

Routine operations. Good shift coordination in performing numerous load threatening testing.

Reviewed By T.W. Pearce

Date 9/7/88

To: Operations Superintendent - Nuclear

Date: 09/05/88

From: David Powell
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Normal plant operations, Unit 3 at 100%
- Plant operations, Unit 4 - approximately 30% to 40%
- Recovery of dropped rod K-12 Control Bank D, xenon dampening
- Repair work activities on Circulating Water pump
- Plant tours - Radiation Control Area (RCA) and balance of plant
- Shift turnovers

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Shift turnovers conducted in a thorough manner. Operators were acutely aware of the xenon/flux oscillations and followed the oscillations throughout the day. Quiet shift.

Completed By: David Powell
MOS Observer

Date: 09/05/88

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

Date: 9/6/88

Management
Review By:*JEC* 1 9/6/88 *md* 1 9/6/88
PM-N Date SVP Date VP Date

09/05/88

To: Operations Superintendent - Nuclear

Date: 09/05-06/88

From: James E. Jones
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3 at 100% power
- Unit 4 K-12 rod drop flux mapping and peaking factors measurement
- Unit 4 at 45% power with radial xenon oscillations

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

None

Completed By: James E. Jones
MOS Observer

Date: 09/05-06/88

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

Date: 9/6/88

Management
Review By:*[Signature]* 19/6/88 *[Signature]* 19/6/88
PM-N Date SVP Date VP Date
09/05-06/88

To: Operations Superintendent - Nuclear

Date: 09/05-06/88

From: Max Ammerman
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Chemistry routines
- ° Component Cooling Water (CCW) Heat Exchanger tag out and cleaning
- ° Shift turnover and briefing

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Good shift briefing where everyone was warned not to let down guard - the reason for the dropped rod is unknown and the possibility of more of the same should be anticipated.

When the 4B CCW Heat Exchanger was opened for cleaning, we saw a copper oxide green sediment in the bottom of the water box and tubes. This is unusual and had never before been seen by the Mechanical Maintenance workers. There was speculation of this being the result of the 4A acid flush. Water samples were taken by Chemistry and Technical. Reason for the condition is unknown.

Nice quiet shift.

Completed By: Max Ammerman
MOS Observer

Date: 09/05-06/88

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

Date: 9/6/88

Management
Review By:

BC 19/6/88 JH 19/6/88
PM-N Date SVP Date VP Date

09/05-06/88

Date 09/06/88

Shift Report

Shift _____ Peaks _____

Shift Management

PSN Wogan APSN Singer 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 *[Signature]* Date 9/7/88

Date 09/06/88

Shift Report

Shift Mids

Shift Management

PSN Anderson APSN Dallau NWE Newton

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. Pearson Date 9/6/88

To: Operations Superintendent - Nuclear

Date: 09/06/88

From: David Powell
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Unit operations, Unit 3 at 100% power, Unit 4 at 45% power
- Plant tours
- Shift turnovers
- Unit 3, Reactor Protection system surveillance
- Unit 4, flux mapping

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

The Unit 3 Reactor Protection system surveillance took approximately four hours to complete. This surveillance normally takes less than two hours. Although a surveillance commenced at 0830, personnel from the Electrical Department did not arrive to set up their equipment until approximately 0930. Following establishment of the proper connections on the breaker, further complications associated with the use of the oscilloscope delayed the performance of the surveillance even more. When I went down to the Motor Control Center there were four personnel from Electrical who were trying to determine the problem. However, it was not until the Watch Engineer arrived and explained what should happen to the oscilloscope and how to set it up to get the trace.

I believe that better coordination between Operations and Electrical should have occurred. Also, that the Electrical personnel should be better prepared to perform this task than they demonstrated today.

E. Professionalism, Summary of Shift, Comments

Shift turnovers conducted well. The surveillances monitored were conducted in a thorough and professional manner. Overall a fairly quiet day in the control room.

Completed By: David Powell
MOS Observer

Date: 09/06/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 9/7/88

Management
Review By:

<u>MC</u>	<u>12/1/88</u>	<u>1</u>	<u>1</u>
PM-N	Date	SVP	VP
		Date	Date

09/06/88

To: Operations Superintendent - Nuclear

Date: 09/06-07/88

From: James Jones
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3 at 100% power
- Unit 4, ascension to 100% power
- Power Range Nuclear Instrumentation System (NIS) hi flux trip setpoints adjusted to 100%, Unit 4
- C Steam Generator (SG) Feed Regulating Valve (FRV) Independent Verification (IV) for A Diesel Generator (DG) maintenance
- RCA tour

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

The Component Cooling Water (CCW) Inlet Isolation valve stem cap threads are stripped - valve #4-7013. Valve stem cap is hanging on the valve stem and could possibly fall off if the valve was shut.

E. Professionalism, Summary of Shift, Comments

During Unit 4 NIS flux trip setpoint adjustment, Eric Anderson paid very close attention to all bistables tripped and cleared, which demonstrates needed concern for load threatening events.

Completed By: James Jones
MOS Observer

Date: 09/06-07/88

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

Date: 9/7/88

Management
Review By:

<u>KC</u>	<u>1 9/7/88</u>	<u>1</u>	<u>1</u>
PM-N	Date	SVP	Date
		VP	Date

09/06-07/88

To: Operations Superintendent - Nuclear

Date: 09/06-07/88

From: Max Ammerman
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- 4C Feed Regulating Valve repair
- Chemistry routines
- Control Room and shift briefing
- B Emergency Diesel (ED) test OSP-23.1 - 7.2

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

OSP 23.1, Diesel Generator Operability Test, has redundant steps as compared with shift task. The order of the steps is not efficient and requires back tracking. The Independent Verifications (IV) are not consistent with valve manipulations done on shift. (See attached)

Equipment improvement - the megawatt meter in the ED room does not have the orange or red marks as described on information label. (See attached)

The chart paper (0-500°) does not match the changed scale (0-700°) of the chart on R-3-339 and R-4-439/Reheating Steam Temperature.

E. Professionalism, Summary of Shift, Comments

Good quiet shift.

Completed By: Max Ammerman
MOS Observer

Date: 09/06-07/88

Reviewed By: *L. J. P. P.*
Operations Superintendent - Nuclear

Date: 9/7/88

Management
Review By:*MC* 19/7/88
PM-N Date SVP Date VP Date

09/06-07/88

Max Ammerman attachment

Details of OSP 23.1 steps that are redundant with shift tasks:

1. Mids records fuel oil storage tank level.
2. Each shift monitors day tank level.
3. All steps of 7.2.5 (except step 10) are performed on each shift.

Order of steps:

1. 7.2.4 checks level - 7.2.39 records level of day tank.
2. There is a back and forth action checking and recording levels that make sense as far as chronology, but not efficient.

Not consistent with shift tasks:

Every shift blows down the reservoirs but when done in OSP the valves must then be IV'd shut.

The Megawatt Motor in the Emergency Diesel (ED) room should have the green band with the orange and red mark as does the one in the control room.

Date 09/07/88

Shift Report

Shift Mids

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

R. W. Pearce

Date

9/8/88

Date 09/07/88

Shift Report

Shift _____ Days _____

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

Routine operations

Reviewed By *[Signature]*

Date 9/8/88

Date 09/07/88

Shift Report

Shift _____ Peaks _____

Shift Management

PSN Wogan APSN Singer 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 *[Signature]*

Date 9/8/88

To: Operations Superintendent - Nuclear

Date: 09/07/88

From: David Powell
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Unit 3 operations - 100% steady state power
- Unit 4 operations - approach to 100% and steady state operations 100%
- Plant tours
- Shift turnovers
- Draining/filling Emergency Diesel Generator (EDG) radiation/cooling system
- Unit 4 containment hatch pressurization test

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Shift operations were conducted well and without any major problems. Shift turnovers were thorough and informative.

Completed By: David Powell
MOS Observer

Date: 09/07/88

Reviewed By: *D.W. Powell*
Operations Superintendent - Nuclear

Date: 9/8/88

Management
Review By:*JP* 19/8/88 *JP* 19/8/88
PM-N Date SVP Date VP Date

09/07/88

To: Operations Superintendent - Nuclear

Date: 09/07-08/88

From: James Jones
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3 at 100% power
- Unit 4 at 100% power
- Emergency Fan cooler operability test
- B Diesel Generator test
- Auxilliary Feedwater (AFW) Train 1 operability tests
- Trash rake operation

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

The Emergency Diesel Generator (EDG) administrative Limiting Condition for Operation (LCO) placards found on the main control board, EDG electrical control panels and engine control panels need correction (~~see attached sheet~~). PSN notified and memorandum sent to have corrections made.

The B EDG room ventilation fan label placard has fallen off. Operations is aware that a pink card needs to be written.

The EDG KW limits listed on the control panel placards are not the same as listed in the EOPs. One or the other should be corrected.

E. Professionalism, Summary of Shift, Comments

Crews exhibited attention to detail and followup when performing the emergency fan cooler operability test and corrected three valves that were not labeled.

Completed By: James Jones
MOS Observer

Date: 09/07-08/88

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

Date: 9/8/88

Management
Review By:

[Signature] 19/8/88 *[Signature]* 19/8/88
PM-N Date SVT Date VP Date

09/07-08/88

To: Operations Superintendent - Nuclear

Date: 09/07-08/88

From: W. R. Williams, Jr.
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Full power operation of both Units 3 and 4
- ° Toured intake area; 4160 switchgear rooms; cable spreading room; 3A, 3B, 4A, 4B battery rooms and 3B and 4B MCC rooms
- ° Talked with Turbine Operator on need to have ammeters "on" at 4160 switchgear for predictive trending support

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

None

Completed By: W. R. Williams, Jr.
MOS Observer

Date: 09/07-08/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 9/8/88

Management
Review By:

[Signature] 19/8/88 [Signature] 9/8/88
PM-N Date SVP Date VP Date

09/07-08/88

Date 09/08/88

Shift Report

Shift 2nd Days 2

Shift Management

PSN Salkeld APSN Guyer NWE Fernandez

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

G.W. Pearce

Date

9/9/88

Date 09/08/88

Shift Report

Shift _____ Peaks _____

Shift Management

PSN Wogan APSN Singer 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 R. W. Pearce Date 9/9/88

To: Operations Superintendent - Nuclear

Date: 09/08/88

From: David Powell
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Normal plant operations - Units 3 and 4 at 100% steady state power
- Shift turnover
- Plant tours
- Unit 4 Volume Control Tank (VCT) purge - 4-OP-047.1
- Unit 4 power Range Nuclear Instrumentation System (NIS) operational test - 4-OSP-4-059.4
- Unit 3 operability test of B Emergency Diesel Generator (EDG)

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Shift activities were coordinated well. Having more non-licensed operators available to perform various tasks has made it easier for the day shift to accomodate work activities throughout the day. Shift turnovers were thorough.

Completed By: David Powell
MOS Observer

Date: 09/08/88

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

Date: 9/9/88

Management
Review By:

KC 12/9/88 KC 12/9/88
PM-N Date SVP Date VP 1 Date

09/08/88

To: Operations Superintendent - Nuclear

Date: 09/08-09/88

From: W. R. Williams, Jr.
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4 full power operation - Unit 3 had slight power reduction while 3B Heater Drain Motor lower bearing investigated
- Toured intake area, inverter room, 3A battery charger area, heater drain area, and condensate polishing areas

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Shift meeting attended by all necessary departments.

Good job by Operations to remove 3B Heater Drain Motor from service to allow Electrical to inspect the motor and at the same time keep to MW output up by running the third condensate pump.

Mechanical has 3B CWP ready for Electrical to set the motor. They are to set motor when 3B Heater Drain is back in service, and the 3A Battery Charger is on the battery and carrying load.

Talked with the I&C peak shift supervisor about O-ADM-710 and the process for rescheduling PMs.

Talked with Turbine Operator about daily battery pilot cell gravity readings. Will also talk with Electrical Maintenance on this.

Completed By: W. R. Williams, Jr.
MOS Observer

Date: 09/08-09/88

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

Date: 9/9/88

Management
Review By:

<i>[Signature]</i>	1 9/9/88	<i>[Signature]</i>	1 9/9/88	<i>[Signature]</i>	1
PM-N	Date	SVP	Date	VP	Date

09/08-09/88

To: Operations Superintendent - Nuclear

Date: 09/08-09/88

From: James Jones
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3 at 100% power
- Unit 4 at 100% power
- 3A Battery Charger repair
- Routine operations
- Security drill

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

At the conclusion of the security drill, a recommendation was made to have checklist(s) made up to ensure necessary items are completed (card readers secured, etc.) and not lost when under the stress of the situation. The security director mentioned he was going to take action to develop checklists to ensure needed items are completed.

Completed By: James Jones
MOS Observer

Date: 09/08-09/88

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

Date: 9/9/88

Management
Review By:

<i>[Signature]</i> PM-N	19/9/88 Date	<i>[Signature]</i> SVP	19/9/88 Date	VP	i Date
					09/08-09/88

Date 09/02/88

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

None

C. Good Practices/Professionalism Observed

Routine Operations

Reviewed By

S. W. Pearce

Date

8/9/88

To: Operations Superintendent - Nuclear

Date: 09/02/88

From: Craig D. Bersak
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- ° Units 3 and 4 at 100% power
- ° Shift turnover days/peaks
- ° Plan of the Day meetings
- ° Plant tour

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Routine shift.

Completed By: Craig D. Bersak
MOS Observer

Date: 09/02/88

Reviewed By: *P.W. Kline*
Operations Superintendent - Nuclear

Date: 09/02/88

Management
Review By:*JCC* 19/6/88 *JCC* 19/6/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 09/02-03/88

From: P. L. Walker

(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Units 3 and 4, 100% steady state power operation
- 2330 shift turnover meeting
- Looked at acid wash system

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Quiet shift.

Everyone connected with the heat exchanger acid wash system is being very conservative in their actions, even though it is stretching the job out. Understandable, innovation is usually costly.

Many of the operations staff do not understand what and why changes are being made to the control room - specifically, the new console sections and the removal of the STA desk. The changes appeared with very little explanation of why. Some communication appears to be necessary.

Teething problems with changes to the Nuclear Jobs Planning System (NJPS) computer were evident tonight as people were struggling to enter PWOs.

Operation of the control room door is marginal at best. A PWO is attached to it. Previous MOS comments still apply.

Completed By: P. L. Walker
MOS Observer

Date: 09/02-03/88

Reviewed By: *P. L. Walker*
Operations Superintendent - Nuclear

Date: 9/6/88

Management
Review By:

JEC 1 9/6/88 *JND* 1 9/6/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 09/02-03/88

From: Max Ammerman
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Prep for acid flush of Component Cooling Water (CCW) Heat Exchanger
- NLOs in Auxilliary building
- Health Physics personnel in Radiation Control Area

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

A lot of good prep went into the acid cleaning so far. Although it has been long in coming, the cleaning contractor spent some of their waiting time observing us and the CCW heat exchanger. Their supervisor explained to me areas we "should" consider.

-Pigs do more physical damage than other types of cleaning.

-Hydro blasting

1. We should slow down the feed of the nozzle, about 1 tube per minute.
2. We need a different tip - jets at 90° and preferably rotating.

They gave a good walkdown and explanation of their system.

Completed By: Max Ammerman
MOS Observer

Date: 09/02-03/88

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

Date: 9/6/88

Management
Review By:

[Signature] 9/6/88 *[Signature]* 9/6/88
PM-N Date SVP Date VP Date

09/02-03/88

Date 09/03/88

Shift Report

Shift _____ Days _____

Shift Management

PSN Schimkus APSN Reese NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

This morning at the pre-shift briefing, I&C requested support from Health Physics to make a containment entry in Unit 3 to allow removal of ARMS channel 1 detector for repair. This detector was repaired yesterday but the source is still sticking. I&C has been trying to enter the containment over the past 2 shifts but there are inadequate HP personnel to support an entry, as this evolution was not pre-scheduled by I&C to ensure HP had extra personnel.

Actions taken: Conferred with HP Department Supervisor and I&C Supervisor (when a call-out HP crew couldn't be obtained). The PSN requested that this job be postponed until Tuesday when adequate resources (manpower) is available.

Recommend: Maintenance departments should set up work schedules with required support on Friday, if the work involved will fall across the weekend when limited support is available.

C. Good Practices/Professionalism Observed

Mechanical Maintenance has done an outstanding job in terminating a gross number of secondary steam leaks on both units. One month ago there were at least 20 fairly large leaks which were becoming worse. Thanks to the Maintenance Superintendent and Maintenance Supervisor (Dan Zocco) this number of leaks was reduced to where only a few minor leaks still exist.

Reviewed By W. Pearce Date 9/6/88

Date 09/03/88

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

None

C. Good Practices/Professionalism Observed

Routine Operations

Reviewed By W. E. Lane

Date 9/6/88

Date 09/04/88

Shift Report

Shift _____ Days _____

Shift Management

PSN Schimkus APSN Reese NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

Due to cooling canal temperature increase during this extremely hot weather and our current limitations on Intake Cooling Water (ICW) and Component Cooling Water (CCW) temperatures a decision was made Friday 9/02/88 to help lower these temperatures. It was decided to have the Operations Superintendent request fossil units to come off-line in the event ICW temperature limit falls below 95° F and there is $\leq 4^{\circ}$ F margin between required unit shutdown. A letter (memo) was sent to the STA stating this decision. None of the PSNs were aware of this memo until the Plant Manager-Nuclear informed us on dayshift Saturday. After a short investigation it was found that the PSN was not considered to receive a copy of this memo.

Actions: Made a copy of the memo for PSN use.

Recommend: Place the PSN as the key person to be informed of evolutions to be performed - especially in light of unit operation concerns. ~~(See attached memo)~~.

C. Good Practices/Professionalism Observed

Routine operations

Reviewed By W. Spence

Date 9/6/88

To: Operations Superintendent - Nuclear

Date: 09/03/88

From: Craig D. Bersak
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Shift turnover, days to peaks
- Plant tour
- 4A Component Cooling Water (CCW) Heat Exchanger acid flush safety brief.

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Routine shift.

Completed By: Craig D. Bersak
MOS Observer

Date: 09/03/88

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

Date: 9/6/88

Management
Review By:MC 1 9/6/88 Yad 1 9/6/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 09/03-04/88

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

A. Plant Evolutions Observed

° Units 3 and 4 at 100% steady state power 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: P. L. Walker
MOS Observer

Date: 09/03-04/88

Reviewed By: *P. L. Walker*
Operations Superintendent - Nuclear

Date: 9/6/88

Management
Review By:*MC* 19/6/88 *MD* 19/6/88
PM-N Date SVP Date VP Date

09/03-04/88

To: Operations Superintendent - Nuclear

Date: 09/03-04/88

From: Max Ammerman
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Component Cooling Water (CCW) Heat Exchanger, cleaning, flushing, draining, inspection

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Good controls and safe work practices during acid cleaning of CCW heat exchanger. At completion, the tube sheet appeared well cleaned. Operations, Maintenance, Technical, PUP and contractor worked well together.

Completed By: Max Ammerman
MOS Observer

Date: 09/03-04/88

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

Date: 9/6/88

Management
Review By:*HC* 1 9/6/88 *W* 1 9/6/88
PM-N Date SVP Date VP Date

09/03-04/88

Date 09/04/88

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

None

C. Good Practices/Professionalism Observed

Routine Operations

Electrical Maintenance responded to quickly and corrected a problem with the 3A battery charger.

Reviewed By

P.W. Pearson

Date

9/6/88

Date 09/05/88

Shift Report

Shift Mids

Shift Management

PSN Anderson APSN Dallau NWE Newton

A. Questionable Work Practices/Actions Taken/Recommendations

B. Areas for Improvement/Recommendations/Actions Taken

C. Good Practices/Professionalism Observed

This is to recognize the commendable action of the RCOs and NWE in handling the dropped rod and turbine runback we had on Unit 4. In spite of the poor performance of the 'C' Steam Generator (SG) regulating valve the unit was stabilized in a short time and only 20 minutes of bad time collected on the computer for axial flux difference. They did a very good and professional job. The RCOs were Steve Dominowski and John Eaton. The NWE was Andy Newton.

Reviewed By *[Signature]*

Date 9/6/88

Date. 09/05/88

Shift Report

Shift _____ Days _____

Shift Management

PSN Schimkus APSN Reese NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

This afternoon I&C requested to perform calibration of TM-604 (RHR temp) on Unit 4 in Control Rack 19. While setting up their test equipment, the 2 I&C Specialists ran test leads from the east side of Rack 19, thru a space between modules and out the west rack door. During this process the untaped bare banana plugs touched across module leads TQ-408 causing a short. TQ-408 is a vital A.C. power supply, The intermittent short caused 4PO9-Bkr 1 (vital A/C) to trip open. This caused 4D inverter to swap to it's C.V.T.

Actions: Pulled I&C out of racks. Restored power supplies to normal.

Recommend: Taping test leads (bare metal) and finding a method to push wires thru racks in a rigid manner, rather than let test leads flop around.

C. Good Practices/Professionalism Observed

The midshift operators have been receiving comments of praise from all groups on today's dayshift (Maintenance Departments). Observers who saw the midshift in action felt they performed in an exceptionally professional manner.

Reviewed By

R. Reese

Date

9/6/88

To: Operations Superintendent - Nuclear

Date: 09/04/88

From: Craig D. Bersak
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

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

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: Craig D. bersak
MOS Observer

Date: 09/03-04/88

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

Date: 9/6/88

Management
Review By:JEC 1 9/6/88 VP 1 9/6/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 09/04-05/88

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

A. Plant Evolutions Observed

- Unit 3, 100% steady state power operation
- Unit 4, 100% power operation until a C control bank rod dropped shortly after midnight. Power was stabilized after the runback around 60%, and was subsequently reduced below 50% to comply with Technical Specification Quadrant Power Tilt Limitations. All required notifications were made. The unit is now stable and troubleshooting is underway to determine the cause of the dropped rod. At this point (0500), no attempts have been made to withdraw it, and a containment entry is being made to check for leaks.

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Operators Dominowski, Eaton and Newton did a great job of stabilizing Unit 4 during the rod drop transient. The rod was very reactive and caused quite a perturbation of plant systems. The C loop steam generator water level control reacted erratically during the transient and was caught and stabilized by Newton. Everyone on the shift is to be commended for a successful, safe save of a difficult transient.

This event is another example of why having two different technical specifications in the same control room is undesirable. I would expect a plant staff to reference their technical specifications briefly (to confirm what they already knew) and then move on to handle the transient at hand and the required paperwork and notifications. Deciphering the requirements of ADM-021 on the fly during an involved transient with very definite time constraints is unsatisfactory, and is exactly what happened tonight. The crew did an excellent job of meeting the requirements and time constraints. The stress and uncertainty imposed by having to meet two sets of requirements was and is unnecessary.

Completed By:

P. I. Walker

MOS Observer

Date: 09/04-05/88

Reviewed By:

K. W. Paru

Operations Superintendent - Nuclear

Date: 9/6/88

Management
Review By:

J. C.

Date: 9/6/88

SVP

Date: 9/6/88

VP

Date

09/04-05/88

To: Operations Superintendent - Nuclear

Date: 09/04-05/88

From: Max Ammerman
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Shift turnover and shift brief
- APSN walkdown of Radiation Control Area (RCA) and Turbine Building
- Control Room activity

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

NWE - the most time consuming task (overtime book) went to least time consuming task, thanks to Fred Clark.

Battery hydrometers all in place.

Good walkdown of power block by the APSN.

Runback - see Peter Walkers MOS comments.

Completed By: Max Ammerman
MOS Observer

Date: 09/04-05/88

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

Date: 9/6/88

Management
Review By:*JEC* 12/1/88 *me* 1/9/88
PM-N Date SVP Date VP Date

09/04-05/88

