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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 rept for wk starting 880729.

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 TITLE: Turkey Point Management Onshift Program

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*Change: Region 2
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AUGUST, 10 1988

L-88-339

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,

[Signature]
W. F. Conway
for

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

*Change: Region 2
"Original"*

*D036
1/1*

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PDR ADUCK 05000250
R PDC

APR 1989

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMARY REPORT

WEEK STARTING: 07/29/88

PAGE 1 OF 2

Seven MOS Observers were on shift: Terry L. Fulkerson, Westinghouse Electric Corporation (07/30-31/88, days); Dave Powell, Operating Experience Feedback Coordinator, Juno Beach (08/01-05/88, days); Andrew P. Drake, Westinghouse Electric Corporation (07/29-08/01/88, nights); Craig D. Bersak, Westinghouse Electric Corporation (08/01-05/88, nights); Craig L. Mowrey, Westinghouse Electric Corporation (07/29/88, days); R. J. Earl, Turkey Point Nuclear Plant Quality Control Supervisor (07/29-08/03/88, nights); and Howard L. Schneider, Turkey Point Nuclear Plant Planned Maintenance Special Projects Supervisor (08/03-05/88, nights).

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

No immediate safety problems were noted by any Observer during the reporting period.

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

- A recommendation to improve General Procedure GOP-103, (Power Operation to HOT STANDBY) to delete some potentially confusing steps.
- A recommendation that the Nuclear Watch Engineer be provided controlled drawings of the Hydrogen Panels to help in writing clearances.
- A recommendation to use temporary system alteration or information tags to ensure lineup of the containment exterior spray system, instead of clearance tags.
- A concern over an oil storage area dike drain valve which was left open.
- A concern over the test program for monitoring the performance of the CCW heat exchangers.
- A concern over a door to the Charging Pump room which was left open despite a sign on the door to the contrary.

ATTACHMENT: MOS DAILY REPORTS

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMARY REPORT

WEEK STARTING: 07/29/88

PAGE 2 OF 2

- A concern for two unterminated wires without identification or explanation.
- A recommendation that the Shift Technical Advisor be present at the shift briefings.

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

- A suggestion to improve post-work cleanup.
- A concern that job paperwork is not kept current during the job.

Four questionable work practices were noted by the Plant Supervisors - Nuclear (PSNs) as follows:

- Problems with the functioning of the newly installed containment exterior spray system.
- A valve watch which was not set before taking a CCW heat exchanger out-of-service.
- The comparison between two Individual Rod Position Indicators in ONOP-028 (Reactor Control System Malfunction) which was felt to be confusing.
- A need for a temporary procedure for the containment exterior spray system.

The PSNs also noted two areas for improvement, as follows:

- A question on how to monitor the runtime of the Main Control Room HVAC system in Emergency Recirculation mode.
- A concern over wasted cleaning effort on CCW heat exchangers, due to inadequate Hydrolaser pressure.

Date 07/29/88

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

8/1/88

Actions Completed

Date

Date 07/29/88

Shift Report

Shift _____ Peaks _____

Shift Management

PSN _____ Salkeld _____ APSN _____ Guyer _____ NWE _____ Eddinger _____

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recomendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Power reduction on Unit 3 was performed without incident.

Reviewed By *[Signature]* Date 8/1/88 Actions Completed _____ Date _____

To: Operations Superintendent - Nuclear

Date: 07/29/88

From: Craig Mowrey
(MOS Observer)Shift: ☒ Day
☐ Night

A. Plant Evolutions Observed

- Both units, 100% power
- Shift briefing
- PC/M on Weir pit completed
- Bank D Rod Position Indication modification
- Conco Plug cleaning of 3C Component Cooling Water Heat Exchanger

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

PSN explained current activities regarding canal temperatures and containment temperatures to all personnel at shift briefing. Well received.

Completed By: Craig Mowrey
MOS Observer

Date: 07/29/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By:

MC 18/1/88 SVP 8/1/88 VP 1/88
PM-N Date Date Date Date

07/29/88

To: Operations Superintendent - Nuclear

Date: 07/29-30/88

From: R. J. Earl
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Shift briefing
- Unit 3, Turbine Valve test
- Unit 3 and 4, Component Cooling Water (CCW) Heat Exchanger cleaning
- Unit 4 A Charging Pump overhaul
- Unit 3, installation of containment supplemental cooling

B. Immediate Safety Problems

None noted..

C. Questionable Work Practices

None noted

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Excellent display of professionalism and dedication by Reactor Engineering personnel in the work to verify the new Rod Position Indication (RPI) indication scales.

Good coordination between Maintenance and Operations Departments. They juggled two CCW HX's, manually cleaned one Intake Cooling Water (ICW) ^{TRAINERS} and performed Unit 3 valve test without incident. Operators were constantly aware of temperature limitations and controlled the sequencing of work as it should be.

Completed By: R. J. Earl
MOS Observer

Date: 07/29-30/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By:

EC 18/1/88 [Signature] 18/1/88
PM-N Date SVP Date VP Date

07/29-30/88

To: Operations Superintendent - Nuclear

Date: 07/29-30/88

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

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Unit 3 power decrease to 275 MWe for Turbine Valve test
- Unit 3 Turbine Valve test
- Unit 3 power increase from 40% to 52% (approximately 350 MWe)
- Peak to mid shift turnover
- Mid shift briefing
- Unit 3 Rod Position Indication (RPI) test

C. Questionable Work Practices

None observed

D. Areas for Improvement

1. Step 5.2 in 3/4 - GP 103 is confusing and needs to be reworded.
2. The Control Room (NWE) needs a controlled copy of the hydrogen panels for units 3 and 4, similar to Drawing number 4930D70-2 in the Tech. manual (V-000067C). They cannot hang clearances on valves located inside these panels when work needs to be performed.
3. I concur with the comments of T.P. Anderson on the Unit 3 containment exterior spray system. I also do not believe a clearance is the proper way to control the service water supply to this system. A Temporary System Alteration (TSA) or information tag would seem more appropriate.

E. Professionalism, Summary of Shift, Comments

Quiet well-run shifts. Both shifts had multiple jobs to coordinate (CCW Heat Exchangers, Turbine Plant Cooling Water (TPCW) strainers, Turbine Valve tests, etc.) and handled them very well. A good example of team work by all departments on site.

Completed By: Andrew P. Drake

MOS Observer

Date: 07/29-30/88

Reviewed By:

R. W. Pearce
Operations Superintendent - NuclearDate: 8/1/88Management
Review By:PM-N18/1/88
Date

SVP

8/1/88
Date

VP

Date

07/29-30/88

Date 07/30/88

Shift Report

Shift Mids

Shift Management

PSN Anderson APSN Reese NWE Dallau

Questionable Work Practices/Actions Taken, Recommendations

We put the Unit 3 Containment Exterior Surface Cooling System in service tonight and almost immediately the "overflow drains" from the containment started overflowing. We were instructed as per the special instructions on this system to stop it and have the normal drains cleaned. It was found that these are the normal drains. Also it was found that the vent was put on the header of top of containment without a relief valve on it and almost all the water was going out the vent and hardly any water was coming out of the hoses. This seems that there was very little research done for this systems design. I know we needed this system in a hurry, but enough research into where the water was going to drain to, and a little thought in that the short $\frac{1}{2}$ " vent was going to be the path of least resistance, would have been more prudent and not that time consuming.

B. Areas for Improvement/Recommendations/Actions Taken

C. Good Practices/Professionalism Observed

Reviewed By KW Reese Date 8/1/88 Actions Completed Date

Date 07/30/88

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 - Good efforts by all Operators associated with Unit 3 Turbine Valve test. All evolutions including the down-power, the valve test, and the up-power escalation were extremely well controlled.

The Maintenance Departments were readily available during all evolutions and gave continual support.

Reviewed By *Spence* Date 8/1/88 Actions Completed _____ Date _____



Date 07/30/88

Shift Report

Shift

Peaks

Shift Management

PSN Salkeld APSN Guyer NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

At 2220 the 3B Component Cooling Water (CCW) Heat Exchanger (HX) was taken out-of-service (OOS) for cleaning. No valve watch was required or stationed prior to this because intake temperature had reduced to below the temperature at which one is needed. No valve watch was stationed prior to taking the Heat Exchanger out-of-service. This was in violation of step 6.7.2 of TP-440. The error was discovered by the RCO and NWE who immediately stationed a valve watch at 2312. At no time did intake temperatures increase to a point at which a valve watch would be required by JCO 86-03 to assure the operability of the in-service CCW HX. The RCO, NWE, APSN and PSN reviewed this incident. It was decided that the best action to prevent this from recurring was to make the first step of each clearance for a CCW HX say, "Verify a 2201 valve watch is stationed". The third RCO on the mid shift was requested to change the Plant Clearance Order Network (PCON) clearances for all CCW HXs. (This was completed, see attached).

B. Areas for Improvement/Recommendations/Actions Taken

C. Good Practices/Professionalism Observed

At 2140 Unit 4 load reduction was commenced and went without incident.

Reviewed By



Date

8/1/88

Actions Completed

Date

**FIGURE 3
CLEARANCE ORDER**

Sheet 1 of 1

1	UNIT: 04	2	CLEARANCE NO: 4-88-07-000	3	SYSTEM NO: 030	4	INDEPENDENT VERIFICATION REQUIRED (PER ADH-031) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	5	ORIGINATOR:
6	PRINCIPAL EQUIPMENT: 4A CCW HX ICW INLET OUTLET VLVS, CCW OUTLET VLV, AMMERTAP, VENT & DRAIN OPEN.							7	ENTERED IN EOOD BOOK INCLUDE CLEARANCE # <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
8	INSTRUCTIONS: MAINTAIN THE PRESSURE ON THE COMPONENT COOLING WATER SIDE DURING THIS CLEARANCE REFER TO TECH SPECS, VERIFY AMMERTAP ISNT ON		9 NO OF TAGS HUNG: 7	10 ISSUE:	TAGS _____ I.V. _____ PLACED _____ BY: _____ BY: _____		11 RELEASE:	TAGS _____ I.V. _____ REMOVED _____ BY: _____ BY: _____	
12									

STEP NUMBERING			ITEM TAGGED:	ACTION	POSITIONED TAGGED	INDEPENDENT VERIFICATION REQUIRED	CONTMT * BOUNDARY	REMOVAL AUTHORIZE AND DATE	REQUIRED POSITION	TAG REMOVED POSITION	INDEPENDENT VERIFICATION
issuing	releasing	tag no	item name item no.	REQUIRED	DATE/TIME INITIALS	DATE/TIME INITIALS	YES NO			DATE/TIME INITIALS	DATE/TIME INITIALS
1			STA & PSN VERIFY CV-4-2201 VALVE WATCH IS STATIONED				X				
2			VERIFY THAT THE 4A CTC PUMP IS OFF	PLACE IN OFF			X				
3		1	CCW HEAT EXCHANGER 4A CTC STRAINER ISOLATION VALVE 4-50-739A	CLOSE			X				
4		2	CCW HEAT EXCHANGER 4A CTC INJECTION NOZZLE ISOLATION VALVE 4-50-743A	CLOSE			X				
5		3	INLET VLV TO CCW HX A FOR INTAKE COOLING WTR 4-50-371	CLOSE			X				
6		4	VENT VLV TO CCW HX A OUTLET WTR BOX 4-50-585	OPEN			X				
7		5	ISO VLV TO CCW HX A DISCH 4-713A	CLOSE			X				
8		6	OUTLET VLV FOR ICW DISCH FROM CCW HX A 4-50-380	LOCKED CLOSED			X				
9		7	DRAIN VLV TO CCW HX A INLET WTR BOX 4-50-374	OPEN			X				

* Containment Boundary. If marked Yes, this valve may constitute a breach of containment integrity.

To: Operations Superintendent - Nuclear

Date: 07/30/88

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

A. Plant Evolutions Observed

- 100% power, Unit 4
- Power escalation on Unit 3
- Shift turnovers mid to days and days to peaks

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

A valve for draining the dike area surrounding the lube oil storage area was found open. The APSN was notified and he had the valve shut. This valve being open would allow any oil that might be spilled to run into the storm sewer thus defeating the purpose of the dike. This valve should be controlled in some manner to ensure that the valve is normally closed and only opened to drain down the area under supervision.

E. Professionalism, Summary of Shift, Comments

Shift turnovers were very good.




Completed By: Terry L. Fulkerson
MOS Observer

Date: 07/30/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By:

 PM-N  SVP  VP

18/1/88 Date 18/1/88 Date 1 Date

07/30/88

To: Operations Superintendent - Nuclear

Date: 07/30-31/88

From: R. J. Earl
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Unit 4 Turbine valve test
- ° Unit 3 Component Cooling Water (CCW) cleaning
- ° Unit 4 Condenser Water Box leak repair
- ° Toured Radiation Control Area (RCA) and Intake
- ° Setting new record for Unit 3 longest continuous run

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

General housekeeping has been improving, however, need to stress to each individual that they need to clean up work areas at the end of a job - don't just assume that a 'helper' will get it later.

Example: .

4A Charging Pump Relief valve had its inlet gasket replaced due to leakage. Review of the job site 3 hours later showed work was complete but old gasket was lying on the floor under the suction piping.

E. Professionalism, Summary of Shift, Comments

Good teamwork on the valve test.


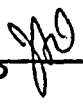
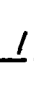
Completed By: R. J. Earl
MOS Observer

Date: 07/30-31/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By:

 PM-N  SVP  VP
1 8/1/88 Date 1 8/1/88 Date 1 Date

07/30-31/88

To: Operations Superintendent - Nuclear

Date: 07/30-31/88

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

A. Plant Evolutions Observed

- Unit 3 power escalation from approximately 88% to 100% (708 MWe)
- Unit 4 power reduction from 100% to Approximately 40% (240 MWe)
- Unit 3 normal operations/logs
- Unit 4 Turbine Valve test
- Peak to mid shift turnover
- Mid shift briefing
- Unit 4 Rod Position Indication (RPI) test

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

No comments

E. Professionalism, Summary of Shift, Comment



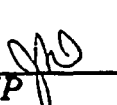
No comments

Completed By: Andrew P. Drake
MOS Observer

Date: 07/30-31/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By: PM-N  SVP  VP
Date 8/1/88 Date 8/1/88 Date 8/1/88

07/30-31/88

Date 07/31/88

Shift Report

Shift _____ Mids _____

Shift Management

PSN Anderson APSN Reese NWE Dallau**A. Questionable Work Practices/Actions Taken, Recommendations****B. Areas for Improvement/Recommendations/Actions Taken****C. Good Practices/Professionalism Observed**

I would like to commend Bill Schleicher, Bob Elliott and Don Stewart who were my TOs tonight. Bill and Bob worked the first $\frac{1}{2}$ of the shift, working 16 hour shifts while Bill and Don worked the last half, Don working a 12 hour shift. They handled the load reduction on Unit 4 to perform the Turbine Valve test, hung a water box clearance (a very large and hard to do clearance), several other secondary clearances, and also took two sets of readings on both units. Each set of readings on each unit normally takes 1 to 1 $\frac{1}{2}$ hours. These men worked it all with a very good attitude while they went non-stop in a very good professional manner. The things that we achieved tonight could not have been accomplished except for their hard work.

Reviewed By *[Signature]* Date 8/1/88 Actions Completed _____ Date _____

Date 07/31/88

Shift Report

Shift _____

Days _____

Shift Management

PSN Murphy 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 - quiet shift

Reviewed By SW Spence

Date 8/1/88

Actions Completed _____

Date _____

Date 07/31/88

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

The NWE, Eddinger, and the STA, Roach, did a good job of troubleshooting an indicated high hydrogen pressure in the Unit 4 generator. Their efforts identified a hydrogen to air signal converter which was drifting causing local, hydrogen panel, Vertical panel A and the Kaye Instrument to erroneously indicate an increasing hydrogen pressure. Additionally, they identified how actual hydrogen pressure could be monitored.

Reviewed By [Signature] Date 8/1/88 Actions Completed Date

To: Operations Superintendent - Nuclear

Date: 07/31/88

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

A. Plant Evolutions Observed

- Unit 3, 100% power
- Unit 4, 50% power, waterbox repairs
- Rod C-5 Analog Rod Position Indicator (ARPI) failure
- Shift turnover

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement


None

E. Professionalism, Summary of Shift, Comments


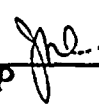
1. Shift turnovers were very good.
2. The C-5 ARPI on Unit 4 failed high, the appropriate actions were taken by the shift operators.

Completed By: Terry Fulkerson
MOS Observer

Date: 07/31/88

Reviewed By: 
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By: PM-N 18/1/88 Date SVP  1 8/1/88 Date VP 1 Date

07/31/88

To: Operations Superintendent - Nuclear

Date: 07/31-08/01/88

From: R. J. Earl
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- ° Shift turnover
- ° 4AS Condenser Water Box Repair
- ° Toured Intake and Secondary

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

I&C Journeyman completed maintenance on AFW nitrogen backup gages according to I&C turnover log. Upon review of the work packages the following was noted:

- PI-4-1124 -Journeyman work report was blank
 - Attached procedure was blank
 - Stick'em note on PWO said "Wrong Procedure, Unit 3, needs PMT" (MI is for Unit 3)
- PI-4-7001 -Journeyman work report was blank
 - Attached procedure was blank
 - Note on PWO said "Wrong Procedure, Unit 3, needs PMT" (MI is for Unit 3)
- PI-4-2014 -Journeyman work report was blank
 - Procedure not verified for On-The-Spot-Change but was also blank
 - Note on PWO said "Need PMT"

Midshift I&C Supervisor had no means to determine what had been accomplished for sure.

Walkdown was performed to verify gages were installed. Discussion was held with PSN to verify no LCO existed on gages. Clearances were not released until it is confirmed work is complete satisfactory.

Recommend: Reinforcing upon Journeyman and Supervisors to keep paperwork current as job progresses but especially when turning over job.

B. Professionalism, Summary of Shift, Comments

Mechanical Maintenance worked very hard at repairing condenser water box under very unpleasant conditions. I&C responded quickly and professionally to assist mechanic on job.

Completed By: R. J. Earl
MOS Observer

Date: 07/31-08/01/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 8/1/88

Management
Review By:

[Signature] 1 8/1/88 [Signature] 1 8/1/88
PM-N Date SVP Date VP Date

07/31-08/01/88

To: Operations Superintendent - Nuclear

Date: 07/31-08/01/88

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

A. Plant Evolutions Observed

- Unit 3, 100% power
- Unit 4, approximately 55% power
- Peak to mid shift turnover
- Mid shift briefing
- Unit 4, Condenser Waterbox repairs
- Normal operations/logs
- Unit 3 Intermediate Range surveillance test

B. Immediate Safety Problems

None observed

C. Questionable Work practices

The test program for monitoring the performance of the Component Cooling Water (CCW) Heat Exchangers has some deficiencies that need to be quickly corrected. The following events occurred during the last week:

- 1) Incorrect/Unrealistic data was sent to the Shift Technical Advisor (STA) on 7/26/88.
- 2) Calculations on Unit 3 CCW data used correct numbers for the calculation, but incorrect numbers were recorded. Had the reviewer used these numbers he/she would have come up with a different value (7/28/88).
- 3) Unit 4 CCW data was transmitted as Unit 3 data on 7/29/88 and not identified until 7/30/88.
- 4) Unit 3B CCW Heat Exchanger was cleaned on 7/30/88 and then tested. The test data shows a fouling rate of approximately 0.9° per day. The maximum fouling rate assumed is approximately 0.6° per day.

The STA on the 7 PM to 7 AM shift (Paul Roach) has been performing some fouling rate checks on the data for the last few days at my request. The checks are fairly simple and compare the test fouling rate to the predicted rate. These checks should be performed by the test engineer and responsible person who reviews the data prior to sending it to the STA.

This program is important and should have the same level of independent verification on the data as safety related equipment has for line ups.

I asked the STA to write how he has been checking the data sent to him. These checks should be formalized in the test procedure. The test engineers should work with the STA to correct these deficiencies.

D. Areas for Improvement

No comments

E. Professionalism, Summary of Shift, Comments

The peak shift identified and determined the erroneous indication (high) on Unit 4 hydrogen gas pressure. A complete investigation by the Nuclear Watch Engineer and I&C Department identified a common failure (gas to air sensor converter). The information was turned over to the mid shift (complete with hand drawings) showing the problem, bad indications, and good indicator.

Completed By:

Andrew P. Drake
MOS ObserverDate: 07/31-08/01/88

Reviewed By:

[Signature]
Operations Superintendent - Nuclear.Date: 8/1/88Management
Review By:[Signature] 18/1/88 [Signature] 18/1/88
PM-N Date SVP Date VP Date

07/31-08/01/88

Date 08/01/88

Shift Report

Shift Mids

Shift Management

PSN Anderson APSN Reese NWE Dallau

A. Questionable Work Practices/Actions Taken, Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

None

Reviewed By *L. P. Reese* Date 8/1/88 Actions Completed Date

Date 08/02/88

Shift Report

Shift Randy Hart
Mids

Shift Management

N Anderson APSN Reese NWE Dallau

A. Questionable Work Practices/Actions Taken/Recommendations

1. In ONOP-028 one of the symptoms listed for Rod Control Cluster (RCC) misalignment is "2.1.5. Bank Rod Position Indication (RPI) highest to lowest difference of greater than 12 steps". This is not a requirement of either current Technical Specifications or O-ADM-21. This procedure symptom requires me to call the RPI out-of-service (OOS) unnecessarily, requiring a flux map for no reason. It also brings up the question of which RPI I call OOS. Since I don't know if it is the higher one or the lower, this should cause me to call both OOS which requires me to be in Hot Standby within 6 hours.

Recommendation: Delete this sentence from the symptoms and put it in another section of the ONOP to require I&C to check currents and adjust.

2. As soon as we came on shift tonight, it was discovered that water was running onto the Unit 4 Motor Generator (MG) ser. Upon investigation it was found that the Unit 3 Exterior Containment Cooling System spillover was draining into a manway on the containment purge supply duct, running into the purge supply fan room, and running down onto the MG set below. We felt that the cooling system needed to be secured immediately to seal the manway. It was found that the two supply water valves had a clearance on them to the open position. This clearance was to a construction supervisor. I immediately instructed the operator to shut the valves and then we cleared up the clearance with the APSN signing it off. I think we are using the wrong controls by using a clearance order to valve in an operating system. It is more important with this system to be able to secure it (in case of such things as hose ruptures, bad weather, and so on) than to use a clearance order to keep it running. We tried to contact the construction supervisor after the fact and could not even find a home phone number for him. We have no way of contacting him.

Recommendation: In cases such as this we should use our caution tag system. Everyone working here should be able to recognize and read a caution tag, before manipulating a valve, as well as a clearance tag. If he violates a caution tag he would probably violate a clearance tag.

Better yet, though, we need a temporary procedure for this system. Then we would not need these other controls for the valves, we would have guidance when to use the system, and it would address restrictions such as severe weather and so on.

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

The Bechtel fire watch, Suzette Pressley, found the water leaking onto the MG set and immediately informed the APSN. We appreciate this kind of concern and response from all people on site.

Reviewed By R. Reese Date 8/2/88 Actions Completed Date

Date 08/01/88

Shift Report

Shift _____ Days _____

Shift Management

N Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

On 7/30/88 (Saturday) 3B Component Cooling Water (CCW) Heat Exchanger (HX) was taken out-of-service for cleaning. Mechanical Maintenance Hydrolased the entire HX and on 7/31/88 the HX was closed up, placed in service and efficiency tested. The efficiency test proved that cleaning was ineffective. The problem per Technical Department and Mechanical Maintenance was a faulty discharge pressure regulator on the Hydrolaser machine discovered after the HX was buttoned up.

Actions taken: Questioned Mechanical and Technical Supervisors how it was not discovered a problem existed during cleaning and questioned Mechanical Maintenance if the Hydrolaser discharge pressure was monitored during the entire cleaning.

Recommend: We start doing this and have a backup contingency to continue cleaning a HX rather than discover an inadequacy once the HX is closed up.

C. Good Practices/Professionalism Observed

Routine operations - No problems.

Mechanical Maintenance, double teaming the 4AS water box weld job, is doing an exceptional job to accomodate repair. The temperature of their work area is probably over 100° and I observed both of the two welders not taking a break over a 4 hour period, doing continuous welding.

Reviewed By RW Spence Date 8/2/88 Actions Completed _____ Date _____

To: Operations Superintendent - Nuclear

Date: 08/01/88

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

A. Plant Evolutions Observed

- Unit 3, 100%, Unit 4, approximately 55% power
- 3/4-OSP-046.3, Boric acid
- Auxiliary Feedwater (AFW) Pump testing, Unit 3 - Train 1 flow verification
- Peak shift briefing
- Plant tours
- Morning and afternoon Plan of the Day meetings

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

While monitoring the Boric Acid Chemical Volume Control System (CVCS) lineup verification, I noticed personnel (mostly helpers and cleaners) transiting the Unit 3 Charging Pump room. (Personnel were cleaning the Boric Acid Storage Tank area). On five separate occasions, personnel opened the fire door to the pump room but failed to close it. This is not in accordance with the directions posted on the door, which states that the door is to be shut at all times (unless of course, a fire watch is stationed - one was not). I closed the door, when it was evident that the personnel would not. I notified the PSN of this upon returning to the Control Room. He took immediate action to correct the situation by calling the equipment supervisor and explaining to him the need to keep the door shut.

Recommendations:

1. Ensure that all personnel having access to these areas are aware of our commitment.
2. Post a larger sign on the door stating that the door is to be shut at all times, and to ensure that personnel take the time to do it.

E. Professionalism, Summary of Shift, Comments

Shift turnover was conducted in an excellent manner. Both the PSN and APSN thoroughly familiarized themselves with the plant's history since they last were on shift (the majority of the shift personnel had just come off one week of training). Information exchange between the two shifts was excellent; questions were asked whenever something was not clear. It was evident that when the shift had turned over, all personnel were very familiar with the total status of the units.

During the Unit 3 AFW Train 1 - flow verification test an anomaly occurred on Unit 4. The test calls for isolating air to pressure regulating valves in the system. These valves use a spring to close. When the AFW pump was started, the differential pressure apparently was enough to pop one of the Unit 4 valves open, giving 100 gpm flow to the Unit 4 steam generators. The operator on shift recognized he had a problem because of a slight power fluctuation. He proceeded along with the PSN to track down the cause and in a very short time determined it. The operator's awareness of his plant and attention to detail, in this case, was excellent. Had this gone unnoticed, and not reported to the personnel performing the test, invalid results might have gone unnoticed. As it turned out, a portion of the Unit 3 test had to be invalidated because of this problem.

Completed By: David R. Powell
MOS Observer

Date: 08/01/88

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

Date: 8/2/88

Management
Review By:

RC 18/2/88 *RC* 18/2/88 *VP* 1
PM-N Date SVP Date VP Date
08/01/88

To: Operations Superintendent - Nuclear

Date: 08/01-02/88

From: R. J. Earl
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Shift Briefing
- Return Unit 4 to 100% power
- Toured Secondary Plant

B. Immediate Safety Problems

None Noted

C. Questionable Work Practices

None noted

D. Areas for Improvement

None

E. Professionalism, Summary Of Shift, Comments

Good attention to detail by roving fire watch who noticed and reported water leaking into Motor Generator (MG) set room. See PSN, Anderson report.

Completed By: R. J. Earl
MOS Observer

Date: 08/01-02/88

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

Date: 8/2/88

Management
Review By:

JEC 1 8/2/88 *JEC* 1 8/2/88
PM-N Date SVP for Date VP Date
08/01-02/88

To: Operations Superintendent - Nuclear

Date: 08/01-02/88

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

A. Plant Evolutions Observed

- Unit 3 at 100% power
- Unit 4 power ascension from 55% to 100% power
- Plant tour

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Mid shift NWE/PSN performed a very thorough investigation of the water source on receiving a report from a firewatch of water leaking on the 4B Rod Control Motor Generator (MG) set. PSN report makes very good points regarding use of clearance tags to place a system into service.

Completed By: Craig D. Bersak
MOS Observer

Date: 08/01-02/88

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

Date: 8/2/88

Management
Review By:

[Signature] 1 8/2/88 *[Signature]* 1 8/2/88
PM-N Date SVP for Date VP Date
08/01-02/88

Date 08/02/88

Shift Report

Shift R. Hart 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 brought to my attention that the new Control Room Heating Ventilation and Air Conditioning (HVAC) system has a requirement of changing out the filters after 720 hours of operation on Emergency Recirculation. Due to numerous instances of being on Emergency Recirculation since HVAC installation, APSN/PSN have a concern on how the run time on the filters is being monitored so as not to exceed the 720 hours.

Actions: Questioned Technical Department on the above issue and didn't receive clear feedback.

Recommendation: Install timers actuated by SF-1A or SF-1B breaker actuation.

C. Good Practices/Professionalism Observed

Operations received excellent support from Electrical, I&C, Technical and Mechanical for the numerous evolutions which took place on dayshift. All evolutions including Reactor Protection, Auxilliary Feedwater pump testing with associated Train valve operability tests, and T-average delta T test on Unit 4 were all done in a safe professional manner with no personnel error.

Reviewed By L. W. Pearce Date 8/3/88 Actions Completed Date

To: Operations Superintendent - Nuclear

Date: 08/02/88

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

A. Plant Evolutions Observed

- Units 3 and 4, 100% power
- Reactor Protection System (RPS) logic test - Unit 3
- Auxilliary Feedwater pump test - Train 1 - Unit 4
- Shift turnover - peaks
- Plant tours

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None noted

E. Professionalism, Summary of Shift, Comments

For the amount of work performed today - jobs went very smoothly. Good coordination among the various departments. PSN/APSN kept up with work very well.

Shift turnover was handled well.

Completed By: David Powell
MOS Observer

Date: 08/02/88

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

Date: 8/3/88

Management
Review By:

[Signature] 8/3/88 *[Signature]* 8/3/88
M-N Date SVP Date VP Date

08/02/88

To: Operations Superintendent - Nuclear

Date: 08/02-03/88

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

A. Plant Evolutions Observed

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

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Routine operations. All watchstanders maintained very professional, alert watches throughout.

Completed By: Craig D. Bersak
MOS Observer

Date: 08/02-03/88

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

Date: 8/3/88

Management
Review By:

MC 18/3/88 *QA* 18/3/88
PM-N Date SVP Date VP Date

08/02-03/88

To: Operations Superintendent - Nuclear

Date: 08/02-03/88

From: R. J. Earl
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Component Cooling Water (CCW) cleaning
- Shift briefing
- Toured plant

B. Immediate Safety Problems

None noted

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Smooth quiet shift

Completed By: R. J. Earl
MOS Observer

Date: 08/02-03/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 8/3/88

Management
Review By:W.C. 18/3/88 20 1 8/3/88
PM-N Date SVP Date VP Date

08/02-03/88

Date 08/03/88

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 L.W. Pearce Date 8/3/88 Actions Completed _____ Date _____

Date 08/03/88

Shift Report

Shift R. Hart
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 L. W. Parra Date 8/4/88 Actions Completed _____ Date _____

Date 08/03/88

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 R.W. Pearce Date 8/4/88 Actions Completed _____ Date _____

To: Operations Superintendent - Nuclear

Date: 08/03/88

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

A. Plant Evolutions Observed

- Plant operation, Units 3 and 4 at 100% power
- 4A and 4B Containment spray test
- Shift turnover
- Plant tours

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

Various operations were performed in a competent and professional manner by the operators.

Completed By: David Powell
MOS Observer

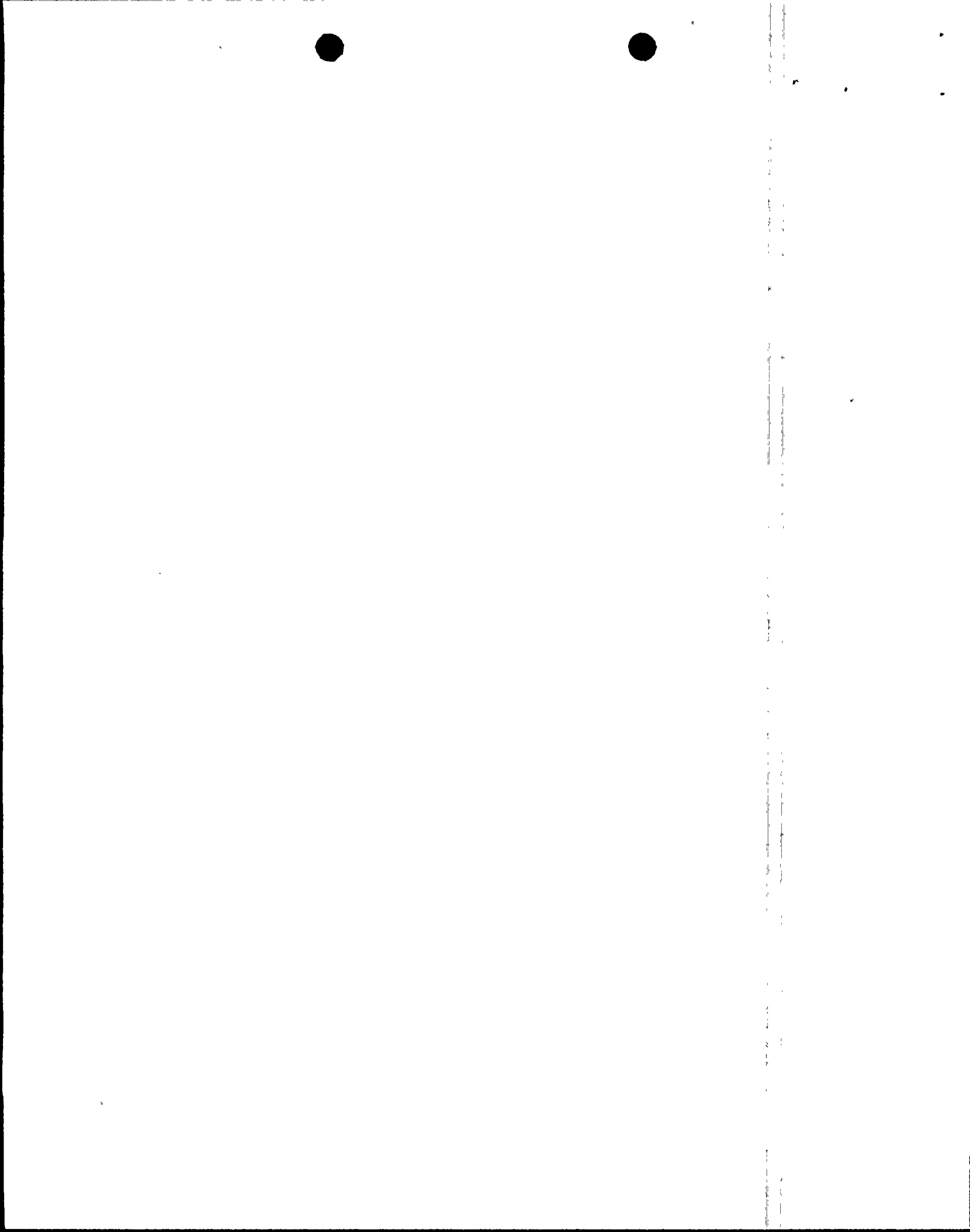
Date: 08/03/88

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

Date: 8/4/88

Management
Review By:

[Signature] 8/4/88 *[Signature]* 8/4/88
PM-N Date SVP Date VP Date
08/03/88



To: Operations Superintendent - Nuclear

Date: 08/03-04/88

From: H. L. Schneider
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3, 100% power operation
- Unit 4, 100% power operation
- Beginning of mid shift meeting
- "A" Emergency Diesel Generator (EDG) operability test

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

No recommendations

E. Professionalism, Summary of Shift, Comments

During shift toured:

Intake area
Radiation Control Area
Turbine area

Good exchange of information during shift meeting at beginning of mids.

Completed By: H. L. Schneider
MOS Observer

Date: 08/03-04/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 8/4/88

Management
Review By:

MC 18/4/88 SVP 8/4/88 VP 8/4/88
PM-N Date Date Date

08/03-04/88

To: Operations Superintendent - Nuclear

Date: 08/03-04/88

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

A. Plant Evolutions Observed

- ° Units 3 and 4 at 100% power
- ° Shift turnover and meeting
- ° Plant tour
- ° O-OSP-023.1, Emergency Diesel Generator (EDG) operability
- ° OP-12304.8, Xenon oscillation

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

None

Completed By: Craig Bersak
MOS Observer

Date: 08/03-04/88

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

Date: 8/4/88

Management
Review By:*MC* 8/4/88 *JPO* 8/4/88
PM-N Date SVP Date*[Signature]* 8/4/88
VP Date

08/03-04/88

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Date 08/04/88

Shift Report

Shift Mids

Shift Management

PSN Salkeld APSN Haley NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

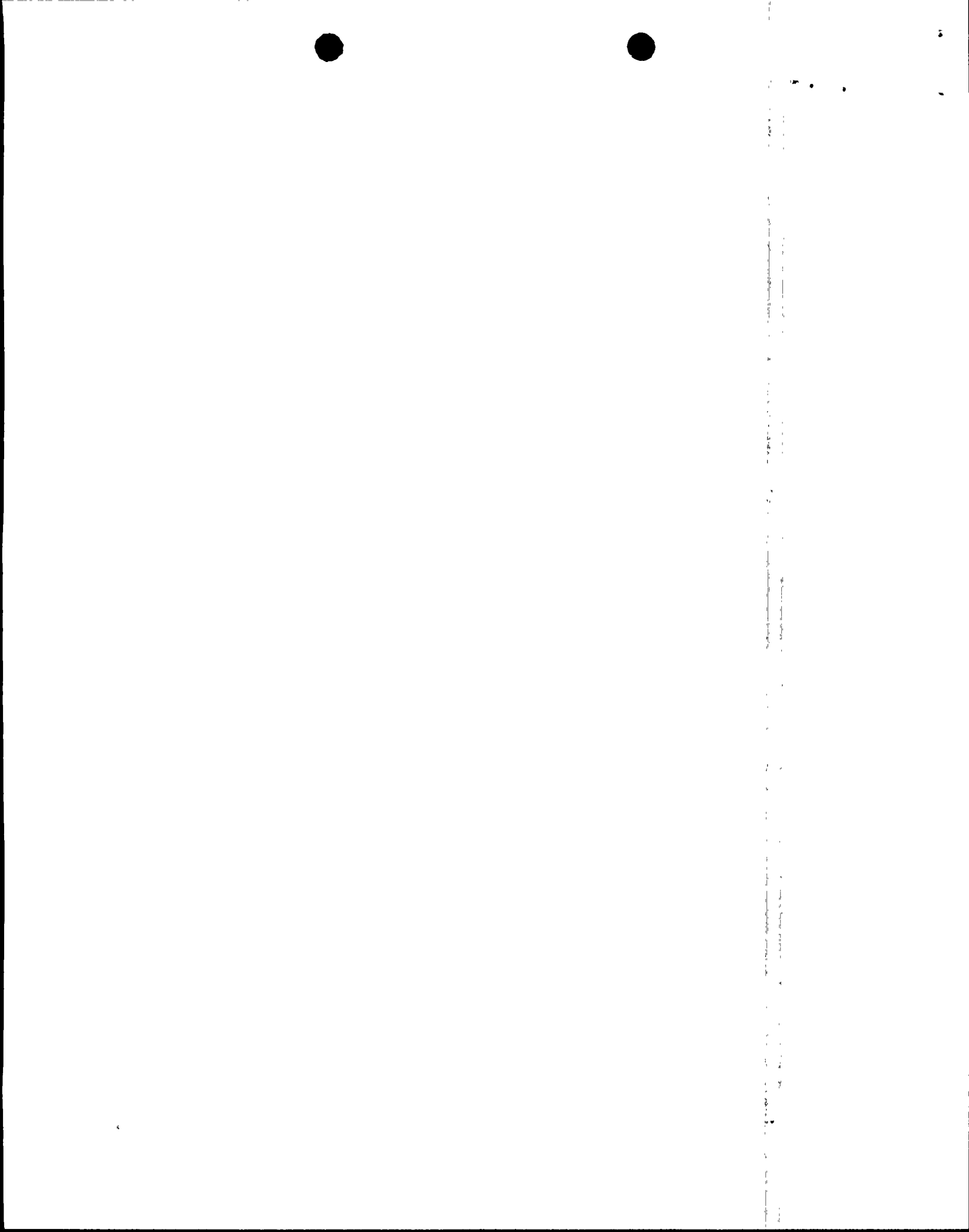
None

Reviewed By *[Signature]*

Date 8/5/88

Actions Completed

Date



Date

08/04/88

Shift Report

Shift

Days

Shift Management

PSN

Salkeld/Wogan

APSN

Harpel

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

8/5/88

Actions Completed

Date

Date 08/04/88

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 *R. Pearce* Date 8/5/88 Actions Completed _____ Date _____

To: Operations Superintendent - Nuclear

Date: 08/04/88

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

A. Plant Evolutions Observed

- Normal plant operations - Units 3 and 4 at 100% power
- Containment Equipment Hatch pressure test
- 4B Residual Heat Removal (RHR) pump test
- Shift turnovers
- Plant tours

B. Immediate Safety Problems

None observed

C. Questionable Work Practices

None observed

D. Areas for Improvement

During one tour I noticed unterminated wires hanging from panel PB-4370 in the Unit 4 mezzanine area, (south end). These wires apparently go to a temperature detector that was not in place at the time. There was no tag of any sort explaining why the wires were as described above. The shift watch engineer was notified of this and he indicated I&C would have to be notified to find out the reason, but by the time my shift was completed no resolution had been received. I notified the peak PSN who indicated that he would look into it.

If caution tags or PWO tags are not appropriate for this type of occurrence, then perhaps some sort of information tag should be attached to at least indicate that power has been secured to the wires.

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 2
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E. Professionalism, Summary of Shift, Comments

Shift turnover was conducted in a professional manner and shift work expectations were delineated in a thorough manner. However, this marks the third day that I noticed that the STA was not present at the peak shift turnover. Although I understand that he is not required to be present, it would be appropriate that he attend to field any questions relating to specific surveillances such as the Component Cooling Water (CCW) Heat Exchanger (HX) cleaning progress, or any other questions the APSN might have.

Completed By: Dave Powell Date: 08/04/88
MOS Observer

Reviewed By: [Signature] Date: 8/5/88
Operations Superintendent- Nuclear

Management Review By: [Signature] 8/5/88 [Signature] 8/5/88
PM-N Date SVP Date VP Date

To: Operations Superintendent - Nuclear

Date: 08/04-05/88

From: H. L. Schneider
(MOS Observer)Shift: ☐ Day
☒ Night

A. Plant Evolutions Observed

- Unit 3, 100% power operation
- Unit 4, 100% power operation
- Beginning of mid shift meeting

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

No suggestions

E. Professionalism, Summary of Shift, Comments

Toured the following plant areas:

- Intake
- Cable Spreading/Motor Generator set room
- Auxiliary building/Radiation Control Area
- Turbine area

Completed By: H. L. Schneider
MOS Observer

Date: 08/04-05/88

Reviewed By: [Signature]
Operations Superintendent - Nuclear

Date: 8/5/88

Management Review By: [Signature] 8/5/88 [Signature] 8/5/88
PM-N Date SVP Date VP Date

08/04-05/88

To: Operations Superintendent - Nuclear

Date: 08/04-05/88

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

A. Plant Evolutions Observed

- Units 3 and 4 at 100% power
- Shift turnover and meeting
- Plant tours
- Troubleshooting and restoration of Unit 3, NI-43

B. Immediate Safety Problems

None

C. Questionable Work Practices

None

D. Areas for Improvement

None

E. Professionalism, Summary of Shift, Comments

I&C provided a very prompt response to Operations upon notification of NI-43 being declared out-of-service.

Routine, quiet shift.

Completed By: Craig D. Bersak
MOS Observer

Date: 08/04-05/88

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

Date: 8/5/88

Management Review By: *W. P. Sec* 8/5/88 *MD* 8/5/88
PM-N Date SVP Date VP Date

08/04-05/88

