

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMMARY REPORT

WEEK STARTING: October 24, 1987

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During this period, four individuals were on shift: P. L. Fincher, Training Superintendent from St. Lucie Plant; R. Gouldy, Senior Engineer Nuclear Licensing Department, Juno Office; B. A. Abrishami, System Performance Supervisor, Turkey Point Staff; and E. F. Hayes, Special Assistant to the Plant Manager, Turkey Point Staff.

While on shift, these individuals reported on potential safety problems, questionable work practices, operating strengths, areas for improvement and general recommendations.

Two areas of concern were identified during the week: 1) On 10/24/87 with Unit 4 in mode 5, a procedural heatup rate limit of 90°F per hour was exceeded during the collapse of the pressurizer bubble. A cooldown of the pressurizer was in progress. In an attempt to slow the cooldown rate, heaters were turned on which resulted in a heatup of 97°F in less than an hour. The Technical Specification requirement of 100°F in an hour was not violated. Operations management review of the event revealed that procedural enhancements were needed to caution the operator on the potential for this fast heatup rate when collapsing the pressurizer bubble. Also, additional training will be performed regarding this potential sequence of events. In addition, discussions were held with personnel involved at which time they were instructed to exercise caution during heatup and cooldown operations; 2) On 10/25/87 with Unit 4 in mode 5, the pressurizer level was being reduced in preparation for maintenance work on PORV-4-456. At approximately 0220, indications of a void in the reactor vessel upper head region were observed. Immediate action was taken and at approximately 0250 indications of a full reactor vessel upper head region were obtained. An Event Response Team was formed expeditiously to investigate the event, address root causes and implement corrective actions, as needed. The team is currently reviewing the event but a preliminary evaluation has found that the event did not result in any major safety consequences.

During the week several operating strengths were reaffirmed; shift briefings, shift turnover, Event Response Team, off-normal procedure usage and general procedural compliance. Two areas for improvement were noted; Plant Work Order (PWO) backlog and housekeeping. Plant Management is concerned with the Plant Work Order backlog and several programs for reducing the backlog and tracking effectiveness are in progress. Housekeeping is being addressed plant-wide with the following actions having been taken in the last 3 weeks: 1) All nonessential plant changes/modifications have been halted. 2) All "satellite support facilities," (i.e., trailers, sheds, tool boxes, welding machines, etc.) not required for real-time work have been removed from the protected area. 3) Installed scaffolding has been reduced to support only work-in-progress. 4) Painting and general plant cleanup has been accelerated.

In general, overall plant appearance has been markedly improved and this effort will continue, augmented by routine tours by plant management.

Action has been completed or is in progress on all problems identified by the Daily Management-on-Shift reports.

ATTACHMENT: MOS DAILY REPORTS

8711130201 871104
PDR ADOCK 05000250
P PDR

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0-ADM-019	Management on Shift (MOS)	13
		Approved Date 10/23/87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/24/87
 From: P. L. Fincher Shift: ☒ Day
 (MOS Observer) Night

A. Plant evaluations observed

- 1) Morning outage status meeting 7:10 - 7:30 A.M.
- 2) A.M. shift briefing
- 3) P.M. shift briefings
- 4) Collapsing pressurizer steam bubble/pressurizer cooldown.
- 5) Shift turnover

B. Immediate safety problems

Procedural heatup rate limit of 90% ^{OF PNP for R6M} per hour was exceeded during the collapse of the pressurizer bubble. A cooldown of $\approx 111^{\circ}\text{F}$ had occurred due to turning off the heaters while filling the pressurizer. The corrective action of turning the heaters back on resulted in a heatup of 97°F in less than an hour. Both conditions were discovered by the Assistant Plant Supervisor-N (4-OP-041.2).

C. Questionable work practices

The Unit 4 RCO silenced/acknowledged an alarm on the Unit 3 control board, with no verbal communication between the operators. The Unit 3 operator however was aware of the action. Other communications throughout the shift were evaluated as effective. Information was passed in a crisp, clear and concise manner. One unsafe work practice occurred when an electrician was observed standing atop a waste basket instead of using a step stool. A stool was available in the control room.

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MOS DAILY REPORT

D. Actions taken

The PSN/APSN discussed the significance of these occurrences (Section B) immediately with the personnel involved. The Operations Supv. was briefed on the pressurizer event. A memo was written requesting that consideration be given to adding a caution to the procedure and providing additional emphasis in Training.

E. Strengths

- 1) The conduct of the shift briefings are a positive contribution to shift continuity. They were thorough and focused on activities and expectations for the day. The P.M. briefing was used to critique the day's accomplishments and to provide appropriate feedback to shift personnel.
- 2) Except as noted in report item C, communications were effective and professional.
- 3) Control room activities were conducted in a professional, no-nonsense fashion. The control room at all times remained organized and distractions were kept to a minimum.
- 4) When I&C requested to perform a pressurizer pressure control loop calibration, the RCO reviewed and walked down the maintenance procedure (MI-41-011). During this walkdown he discovered a procedural error (incorrect valve number). This demonstrates a commendable level of accountability for the activities of others which would affect the plant operations.

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MOS DAILY REPORT

F. Area(s) for improvement

None, other than the items already mentioned.

See attached sheet for a discussion of observed strengths.

G. Recommendations

- 1) Recommended that a critique of the pressurizer event take place with the operator involved. This critique did take place and additionally the event was discussed during the P.M. briefing of the off-going shift and with the on-coming peak shift.

Completed By: P. L. Fincher
MOS Observer

Date: 10/24/87

Completed By: *Richard A. Meneb*
Operations Superintendent - Nuclear

Date: 10-26-87

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MOS DAILY REPORT

D. Actions taken

No corrective actions by MOS required.

E. Strengths

- 1) Reviewed NO's logs - accurate when compared to instruments; comments and notes were precise.
- 2) Reviewed TO's Logs - both were complete.
- 3) Shifts' use of drawings and instrumentation to correct the voiding that occurred.

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MOS DAILY REPORT

F. Area(s) for improvement

Housekeeping outside the entrance to the intake area needs to be improved.

G. Recommendations

See item D above.

Completed By: Bahram A. Abrishami
MOS Observer

Date: 10/25/87 *per for RGA*
10/24/87

Reviewed By: Richard L. Meade
Operations Superintendent- Nuclear

Date: 10-26-87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/25/87
From: P. L. Fincher Shift: ☒ Day
(MOS Observer) Night

A. Plant evaluations observed

Observed the PTN short notice outage work (SNOW) response organization responding to a significant operating problem. The event being considered was the inadvertent formation of a void in the Unit 4 reactor vessle head.

B. Immediate safety problems

The immediate safety concern was addressed during the previous shift by termination of RCS depressurization and venting the reactor head through the reactor vessel gas vent system.

C. Questionable work practices

None observed. The event response team accomplished the teams' objectives as outlined in Procedure 0-ADM-011. Appropriate support personnel were assembled from the various departments and these resources were effectively used to gather data and analyze for root cause. Senior management was kept informed via telephone updates.

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MOS DAILY REPORT

D. Actions taken

MOS actions, none.

The PSN took action to activate the event response team after plant stabilization. The event response team took appropriate actions to insure timely collection of data and verification of root cause.

E. Strengths

The team was very thorough in their analysis of available data, verifying conclusions, assessing potential problems and determining an appropriate course of action. Each lead or potential problem was carried to resolution or assigned for further follow-up.

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MOS DAILY REPORT

F. Area(s) for improvement

The team initially had some difficulty keeping their focus on the problem. There was some tendency to get bogged down in details. Various team members were successful in returning the team focus. Designated team leaders should exercise stronger control to minimize diversions.

G. Recommendations

None

Completed By: P. L. Fincher
MOS Observer

Date: 10/25/87

Reviewed By: Richard A. Meus
Operations Superintendent- Nuclear

Date: 10-26-87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/25/87
 From: Bahram A. Abrishami Shift: Day
 (MOS Observer) ☒ Night

A. Plant evaluations observed

- Reviewed Units 3 and 4 and the APSN's logs.
- Walked down the plant with the on-shift NRC (intake cooling water pump area, fire pumps, EDG, cranking DG and valve CV-4-2203).
- Walked the Units 3 and 4 control room panels for normal indications.
- Reviewed the NPO log (3-OSP-201.3) for 10-24-87. The requirements were logged properly. No remarks were indicated for some data outside expected ranges, this was discussed with NPO.
- Walked NAB, RCA (personnel hatches, HHSI PP room, CCW PP rooms, EW and NS passageway), and rad waste building.

B. Immediate safety problems

None

C. Questionable work practices
10/26/87 at approximately 0450 - Unit 3

A signal was received for auto makeup to the VCT, however no acid flow indicated in the control room. Upon immediate investigations the SNPO found a piece(s) of plywood sticks in the actuator of FCV-3-113A which was preventing the valve from opening. The pieces were immediately removed and the valve functioned properly. The SNPO indicated that wood particles and sawdust were on and around the valve which he cleaned out. AS SOON AS THE LACK OF ACID WAS NOTICED FLOW WAS VERIFIED THROUGH EMERGENCY BORATION (MOV-3-350). ONOP 2608.2 was also referred to.



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D. Actions taken

No action was necessary to be taken by MOS.

E. Strengths

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MOS DAILY REPORT

F. Area(s) for improvement

Clean the area thoroughly after the work is complete.

G. Recommendations

Consider having a separate and/or shorter logs for the operators in Modes 5 and 6 to minimize unnecessary readings on components not in use in such modes.

Completed By: Bahram A. Abrishami
MOS Observer

Date: 10/26/87 *per for*
10/25/87 *RCM*

Reviewed By: Richard L. Maude
Operations Superintendent- Nuclear

Date: 10-26-87

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MOS DAILY REPORT

D. Actions taken
None

E. Strengths
Both shifts exhibited good communication skills.

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MOS DAILY REPORT

F. Area(s) for improvement

- Maintaining RCS vents in service to minimize head voiding.
- "NRC on-shift" concerned that many of the PWO's on valves, motors and instruments are over one year old.

G. Recommendations

None

Completed By: Russell Gouldy
MOS Observer

Date: 10/26/87

Reviewed By: Richard L. Wade
Operations Superintendent- Nuclear

Date: 10-26-87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/26/87
From: P. L. Fincher Shift: ☒ Day
(MOS Observer) Night

A. Plant evolutions observed

Observed morning and afternoon shift briefings.
Observed licensed and non-licensed operators in the performance of routine duties, taking log readings and making rounds. Reviewed operator logs and logsheets. Toured outside plant areas.

B. Immediate safety problems
None

C. Questionable work practices

During plant tour noted the following deficiencies: -

- Grounding devices not connected to five 55 gallon drums in the oil/chemical storage area.
- One 55 gallon drum marked "Ammonium Hydroxide Waste" located at south end of Unit 4 condenser polisher building. The drum is functioning as a "Satellite Accumulation Facility" per the Hazardous Waste Coordinator. The drum is not in compliance with 0-ADM-015.3.



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MOS DAILY REPORT

D. Actions taken

Shift Supervisor conducted immediate investigation of non-conforming hazardous waste drum. ie: called the Hazardous Waste Coordinator to assess status, content and reason for current location. /

PS-N personally inspected both the oil and chemical storage area, and the non-conforming chemical waste drum.

E. Strengths

★/JWG/dj/sr/dj

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MOS DAILY REPORT

F. Area(s) for improvement

Enhanced awareness of hazardous waste requirements by shift personnel and a reinforcement of the responsibility of individual operators upon finding non-conforming conditions.

G. Recommendations

Notify Hazardous Waste Coordinator to remove non-conforming waste storage drum to waste storage area and label appropriately or bring up to standard as a satellite accumulation facility per 0-ADM-015.3. Maintenance should be notified to inspect oil/chemical storage area and ground drums as appropriate.

Completed By: P. L. Fincher
MOS Observer

Date: 10/26/87

Reviewed By: Richard J. Weude
Operations Superintendent- Nuclear

Date: 10-27-87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/26/87
From: Russell Gouldy Shift: Day
(MOS Observer) ☒ Night

A. Plant evolutions observed

Unit 3 - Stopping 3A RCP
 - Electrical checkout of 3A RHR pump
 - Starting 3A RCP
Unit 4 - Venting of A and B accumulators

B. Immediate safety problems

None

C. Questionable work practices

Midnight shift review of equipment out of service log-determined that instrumentation required for a containment purge was not available. Day shift started a containment purge utilizing this instrument. Midnight shift terminated this purge and contacted the Operations Supervisor who was the Duty Call Supervisor.

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D. Actions taken

- Recommended purge terminated until instrumentation returned to service.

E. Strengths

Turnover of "hot item" to Maintenance and Plant Staff at morning Outage Meeting.

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MOS DAILY REPORT

F. Area(s) for improvement

- Housekeeping in areas behind control room's surveillance area.

G. Recommendations

- TSA needs to be written for Chemistry's Primary Water Tank which has a solenoid valve removed and spool piece added on fill line.

Completed By: Russell Gouldy
MOS Observer

Date: 10/27/87

Reviewed By: Richard A. Mendel
Operations Superintendent- Nuclear

Date: 10-27-87

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MOS DAILY REPORT

F. Area(s) for improvement

Control Room staff could have made more use of SAS in determining voiding root causes.

G. Recommendations

Shift to review ERT's findings on voiding.

Completed By: Russell Gouldy
MOS Observer

Reviewed By: Richard L. Woods
Operations Superintendent- Nuclear

Date: 10/25/87 *pcp for RRM*
10/24/87

Date: 10-26-87

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/24/87
 From: Bahram A. Abrishami Shift: Day
 (MOS Observer) ☒ Night

A. Plant evaluations observed

- Reviewed and approved completed test procedures 4-OSP-19.1 and reviewed TP-394 on Intake Cooling Water System (Unit 4)
- Walked down Units 3 & 4 Intake Cooling Water System in the pump area.
- Reviewed 0-OSP-201.2 SNPO Daily Logs (completed outside reading)
- Observed the AFW N₂ backup system low pressure alarm setpoint and leak rate varification performed per 4-OSP-075.3.
- Midnight shift briefings (OPS).
- Daily planning meeting.

B. Immediate safety problems

10/25/87 at approximately 0200 - the pressurizer level was being reduced in preparation for maintenance work on PORV-4-456. At this time, QSPDS indicated void in RV upper head region. Pressurizer cold calibration level increased from 86% to approximately 97% in about 10 minutes. PSN notified Operation Supervisor and Superintendent. The Duty Call Supervisor was also called to activate an Event Response Team in accordance with 0-ADM-011. Section 5.1.2.10 of Procedure 4-OP-41.8 was used to vent the reactor vessel head.

10/25/87 at approximately 0250 QSPDS indicates reactor vessel head full on both channels. PSN and APSN briefed the on shift NRC.

C. Questionable work practices

None



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MOS DAILY REPORT

D. Actions taken

- 0-OSP-201.2 SNPO Daily Logs needs some changes (e.g. the valves MOV-3-856 A&B are indicated to be blocked open, while this is no longer a requirement). This was discussed with the PUP representative and a request was made for all logs to be reviewed for any improvement.

E. Strengths

- The communication during the start of the shift briefing was impressive.

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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/26/87

From: Bahram A. Abrishami Shift: Day
(MOS Observer) ☒ Night

A. Plant evolutions observed

- APSN Shift turnover.
- PSN/APSN start of the shift meeting
- Walked Unit 3 and 4 control room boards.
- Reviewed Units 3 and 4 RCO daily Log for 1 AM 10/27/87 4-OSP-201.1.
- Test of area radiation monitors Unit 3.
- Valve in the 3A RHR PP for rotation test (RCS Pressure drop-stopped 3A RCP)
- Reviewed SNPO Daily Logs for Unit 4 inside reading 0-OSP-201.2.
- Walked the RCA (CCW Units 3 and 4, all basket strainers, HHSI pps, monitor tank room Units 3 and 4 charging pumps, fan room, Unit 3 purge exhaust).
- End of the shift meeting.

B. Immediate safety problems

None

C. Questionable work practices

Unit 4 containment purge was in progress with environmental monitoring ten meter tower out of service. This was noticed by the mid shift reviewing the out of service book.



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MOS DAILY REPORT

D. Actions taken

Recommended to stop Unit 4 purge. Purge was stopped.

E. Strengths

- Use of the procedures. Did not observe any activity without the use of the appropriate procedure.

★/JWG/dj/sr/dj



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MOS DAILY REPORT

F. Area(s) for improvement

Housekeeping in the fan room and Unit 4 charging pump room
(everywhere else observed looked very good).

G. Recommendations

A briefing for all personnel involved prior to evolutions such as
valving in a RHR pump, when RCS is solid, could make this a
smoother activity.

Completed By: Bahram A. Abrishami
MOS Observer

Date: 10/27/87

Reviewed By: Richard A. Wendt
Operations Superintendent- Nuclear

Date: 10-27-87

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Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
HHSI	High Head Safety Injection
IAW	In Accordance With
ICW	Intake Cooling Water
MOS	Management on Shift
NAB	Nuclear Administration Building
NPO	Nuclear Plant Operator
NPS	Nuclear Plant Supervisor
NRC	Nuclear Regulatory Commission
NS	North-South
ONOP	Off Normal Operating Procedure
PRZ	Pressurizer
PUP	Procedure Upgrade Program
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
RCA	Radiation Control Area
RCO	Reactor Control Operator
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
SAS	Safety Assessment System
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
TSA	Temporary System Alteration
.TP	Temporary Procedure



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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/27/87

From: P. L. Fincher Shift: ☒ Day

 (MOS Observer) Night

A. Plant evolutions observed

Routine plant operations by licensed, non-licensed and supervisory Operations personnel. Observed normal shift communications, walkdowns of watch stations. Toured general areas of secondary plant and radiation controlled areas.

B. Immediate safety problems

NONE

C. Questionable work practices

The hazardous waste drum identified on 10/26/87 remained in non-conformance to 0-ADM-015.3. Throughout the day initial response to this event by Operations on 10/26/87 was deemed adequate, however, response by plant support groups in providing timely corrective action was not.

PLF/md
★/JWG/dj/sr/dj



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D. Actions taken
None

E. Strengths

PLF/md
★/JWG/dj/sr/dj

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MOS DAILY REPORT

F. Area(s) for improvement

Improve responsiveness of plant support groups to notifications of non-conforming conditions.

G. Recommendations

NONE

Completed By: P. L. Fincher
MOS Observer

Date: 10/27/87

Reviewed By: *Richard A. Mendenhall*
Operations Superintendent- Nuclear

Date: 10-28-87

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PLF/md
★/JWG/dj/sr/dj



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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/27/87
From: Bahram A. Abrishami Shift: Day
(MOS Observer) ☒ Night

A. Plant evolutions observed

1. End of shift meeting (Peak Shift).
2. Beginning of shift meeting (Mid Shift).
3. Walked Units 3 and 4 boards in the Control Room.
4. Walked Intake Cooling Water Pump area, Technical Support Center, Auxiliary Feedwater Pump Room.
5. Reviewed Units 3 and 4 RCO Logs, 3 and 4-OSP-201.1.
6. Reviewed Units 3 and 4 SNPO Daily Log outside reading 0-OSP-201.2
7. Walked the RCA with PSN (Unit 3 Sample Room, Unit 3 Charging Pump Room, Units 3 and 4 Pipe and Valve Rooms, CCW Pump Rooms, Unit 3 and 4 Electrical Penetrations Rooms, Hot Machine Shop, Fan Room, Chemistry Lab).
8. Handling of an injured (finger cut) non-contaminated person.

B. Immediate safety problems
NONE

C. Questionable work practices
NONE

BAA/md
★/JWG/dj/sr/dj

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MOS DAILY REPORT

D. Actions taken

Asked SNPO to place PWO on Unit 4 Sample Room Door (would not open), and Laundry Room Door (Draft could keep the door open).

E. Strengths

1. Shift meetings.
2. Housekeeping outside the ICWP area has been improved very much.

BAA/md
★/JWG/dj/sr/dj



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MOS DAILY REPORT

F. Area(s) for improvement

Housekeeping in Unit 3 Pipe and Valve Room, and Fan Room.

G. Recommendations

Plant walkdown by PSN is a good practice which must be encouraged and continued.

Completed By: Bahram A. Abrishami
MOS Observer

Date: 10/28/87

Reviewed By:

Richard L. Newell

Operations Superintendent- Nuclear

Date: 10-28-87

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Management-on-Shift
(MOS)

ACRONYMS

AFW	--- Auxiliary Feedwater
ANPO	--- Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
HHSI	High Head Safety Injection
LAW	In Accordance With
ICW	Intake Cooling Water
MOS	Management on Shift
NAB	Nuclear Administration Building
NPO	Nuclear Plant Operator
NPS	Nuclear Plant Supervisor
NRC	Nuclear Regulatory Commission
NS	North-South
ONOP	Off Normal Operating Procedure
PRZ	Pressurizer
PUP	Procedure Upgrade Program
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
RCA	Radiation Control Area
RCO	Reactor Control Operator
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
SAS	Safety Assessment System
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
TSA	Temporary System Alteration
TP	Temporary Procedure



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To: Operation Superintendent - Nuclear

Date: 10/27/87

From: Russell Gouldy
(MOS Observer)

Shift: Day
☒ Night

A. Plant evolutions observed

- 3 Shift Meetings.
- ANPO equipment checkout at intake.
- Walked down Auxiliary Feedwater System.
- Walked down Secondary System - Unit 4.

B. Immediate safety problems

NONE

C. Questionable work practices

NONE

RG/md
★/JWG/dj/sc/dj

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MOS DAILY REPORT

D. Actions taken
None required.

E. Strengths
Water Treatment Plant and Intake Water Structure have been cleaned and equipment organized.

RG/md
★/JWG/dj/sr/dj

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MOS DAILY REPORT

F. Area(s) for improvement

Nuclear Operators had a complaint of a lack of restroom facilities for the Auxiliary Building. Both systems are out-of-service and have been for several weeks.

G. Recommendations

See improvement above.

Completed By: Russell Gouldy
MOS Observer

Date: 10/28/87

Reviewed By: Richard A. Mank
Operations Superintendent- Nuclear

Date: 10-28-87

FINAL PAGE

RG/md
★/JWG/dj/sr/dj



Management-on-Shift
(MOS)

ACRONYMS

AFW	---Auxiliary Auxiliary Feedwater
ANPO	---Assistant Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
HHSI	High Head Safety Injection
IAW	In Accordance With
ICW	Intake Cooling Water
MOS	Management on Shift
NAB	Nuclear Administration Building
NPO	Nuclear Plant Operator
NPS	Nuclear Plant Supervisor
NRC	Nuclear Regulatory Commission
NS	North-South
ONOP	Off Normal Operating Procedure
PRZ	Pressurizer
PUP	Procedure Upgrade Program
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
RCA	Radiation Control Area
RCO	Reactor Control Operator
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
SAS	Safety Assessment System
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
TSA	Temporary System Alteration
TP	Temporary Procedure



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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/28/87
From: P. L. Fincher Shift: ☒ Day
(MOS Observer) Night

A. Plant evolutions observed

Routine operations with plant at shutdown conditions.
Observed Operators conducting watch station.
Board walkdowns, taking readings and performing routine surveillances.
Observed shift briefings.
Toured outside areas of plant.

B. Immediate safety problems

NONE

C. Questionable work practices

NONE

PL.F/md
★/JWG/dj/sr/dj

10/28/87

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MOS DAILY REPORT

D. Actions taken
NONE

E. Strengths

PLF/md
★/JWG/dj/sr/dj

10/28/87



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MOS DAILY REPORT

F. Area(s) for improvement

The number of outstanding Plant Work Orders (PWO) is quite high indicating that the material condition of the plant needs significant improvement.

G. Recommendations

Plant Management and Supervision should provide emphasis and focus eliminating the PWO backlog.

Completed By: P. L. Fincher
MOS Observer

Date: 10/28/87

Reviewed By: Richard J. Maude
Operations Superintendent- Nuclear

Date: 10-29-87

7/15 10/29/87

FINAL PAGE

PLF/md
★JWG/dj/sr/dj

10/28/87

Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
HHSI	High Head Safety Injection
LAW	In Accordance With
ICW	Intake Cooling Water
LCV	Level Control Valve
MOS	Management on Shift
NAB	Nuclear Administration Building
NPO	Nuclear Plant Operator
NPS	Nuclear Plant Supervisor
NRC	Nuclear Regulatory Commission
NS	North-South
ONOP	Off Normal Operating Procedure
PORV	Power Operated Relieve Valve
PRZ	Pressurizer
PUP	Procedure Upgrade Program
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RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
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MOS DAILY REPORT

To: Operation Superintendent - Nuclear Date: 10/28/87
From: Russell Gouldy Shift: Day
(MOS Observer) ☒ Night

- A. Plant evolutions observed
- Shift Turnover Meetings.
 - Unit 4 Containment Purge System Alignment
 - 5 A.M. readings - Control Room.

B. Immediate safety problems
NONE

C. Questionable work practices
NONE

RG/md
★/JWG/dj/sr/dj

10/28/87

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MOS DAILY REPORT

D. Actions taken
NONE

E. Strengths
Restroom facilities opened in RCA. Nuclear Operators appreciated this.

RG/md
★/JWG/dj/sr/dj

10/28/87

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MOS DAILY REPORT

F. Area(s) for improvement

Intake Cooling Water, discharge valves from CCW heat exchangers to discharge header. Clean and paint valve body and handles on all 6 valves.

G. Recommendations

Completed By: Russell Gouldy
MOS Observer

Date: 10/29/87

Reviewed By: *Richard A. Wanda*
Operations Superintendent- Nuclear

Date: 10-29-87

RG 10/29/87

FINAL PAGE

RG/md
★/JWG/dj/st/dj

10/28/87



Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
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EDG	Emergency Diesel Generator
ERT	Event Response Team
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MOS DAILY REPORT

To: Operation Superintendent - Nuclear

Date: ^{10/28/87}
~~10/28/87~~ ²⁹ ^{pp for Rm}

From: Everett F. Hayes
(MOS Observer)

Shift: ☒ Day
☐ Night

A. Plant evolutions observed

Shift turnover in Control Room.

Shift briefing.

Maintenance activities in the RCA

Calibration and adjustment of LCV-1532

Removal of RHR pump hatch.

General observation of auxiliary building activities.

Including log keeping and watch standing practices.

B. Immediate safety problems

NONE

C. Questionable work practices

The Plant Work Order (PWO-7621/63) associated with LCV-1532 did not give an adequate description of the post maintenance test requirements and the journeyman was not sure how it would be accomplished.

EFH/md
★/JWG/dj/sr/dj

²⁹
10/28/87

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MOS DAILY REPORT

D. Actions taken
NONE

E. Strengths
Coordination of work has improved since I was last on shift (9/17/87).

EFH/md
★/JWG/dj/sr/dj

29 md
10/28/87

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MOS DAILY REPORT

F. Area(s) for improvement

NONE

G. Recommendations

More personnel are needed to cover work on backshifts, particularly Operations. Critical path activities were halted due to lack of Operators to perform PORV testing.

Signs are posted in numerous places requiring hearing protection. These signs are dutifully ignored by most people because both units are shutdown and noise levels are very low. Clarify the requirements.

Completed By: Everett F. Hayes
MOS Observer

Date: 10/29/87

Reviewed By: Richard L. Wards
Operations Superintendent- Nuclear

Date: 10-29-87

7/15 10/29/87

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EFH/md
★/JWG/dj/sr/dj

29 md
10/28/87

Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
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LAW	In Accordance With
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LCV	Level Control Valve
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NPS	Nuclear Plant Supervisor
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RV	Reactor Vessel
SAS	Safety Assessment System
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
TSA	Temporary System Alteration
TP	Temporary Procedure

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/29/87

From: P. L. Fincher
(MOS Observer)

Shift: ☒ Day
☐ Night

A. Plant evolutions observed

- Shift turnover
- Shift briefings
- Outage status meetings
- Morning management meetings.
- Observed shift Operator communications and communication with Maintenance personnel.
- Conduct of Post Maintenance Valve Testing and routine Control Room activities.

B. Immediate safety problems

None observed



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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

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MOS DAILY REPORT

E. Strengths

Board Operators and Shift supervision are thorough in conducting planning briefings prior to conducting non-routine tests. Shift Supervision, Board Operators, and Maintenance personnel thoroughly discussed the operation.

F. Area(s) for improvement

Shift briefings are a positive contributor to operational continuity. However, the potential exists for these briefings to become distractive to the Control Room Operators. Shift Supervision must exercise stronger control to minimize this potential.

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MOS DAILY REPORT

G. Recommendations

PSN's and APSN's should be cautioned to conduct shift briefings in such a manner as to minimize interference with the RCO's ability to monitor plant status, and respond to changes in plant conditions.

Completed By: P. L. Fincher
MOS Observer

Date: 10/29/87

Reviewed By: Richard A. Weide
Operations Superintendent - Nuclear

Date: 10-29-87
30
GA

Handwritten signature and date: 10/30/87

FINAL PAGE

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★/JWG/dj/sr/dj

10/29/87



Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
HHSI	High Head Safety Injection
IAW	In Accordance With
ICW	Intake Cooling Water
LCV	Level Control Valve
MOS	Management on Shift
NAB	Nuclear Administration Building
NPO	Nuclear Plant Operator
NPS	Nuclear Plant Supervisor
NRC	Nuclear Regulatory Commission
NS	North-South
OMS	Overpressure Mitigating System
ONOP	Off Normal Operating Procedure
PORV	Power Operated Relief Valve
PRZ	Pressurizer
PUP	Procedure Upgrade Program
PWO	Plant Work Order
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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/29/87

From: Russell Gouldy
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- 3 shift meetings.
- Performance of OP 041.4, OMS system operation procedure for PORV 456 on Unit 4.
- Walkdown on plant electrical system:
 - 4A & 4B; 3A & 3B 4160 Volt Bus
 - 4A B C D; 3 A B C D 480 Volt Load Centers

B. Immediate safety problems

NONE

RG:md
★/JWG/dj/sr/dj

10/29/87



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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

G/md
*/JWG/dj/sr/dj

10/29/87

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MOS DAILY REPORT

E. Strengths

Good midnight shift turnover then followed by a well held shift meeting with all Nuclear Operators, Electrical Supervisor, I&C Supervisor, HP Supervisor, and Mechanical Supervisor present. The night's action plan was discussed with all parties recommendations accepted.

F. Area(s) for improvement

None during this shift.

RG/md
★/JWG/dj/sr/dj

10/29/87



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MOS DAILY REPORT

G. Recommendations
NONE

Completed By: Russell Gouldy
MOS Observer

Date: 10/30/87

Reviewed By: Richard J. Mendel
Operations Superintendent - Nuclear

Date: 10-30-87

[Signature] 10/3-1/87

FINAL PAGE

RG/md
★JWG/dj/sr/dj

10/29/87

Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
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RV	Reactor Vessel
SAS	Safety Assessment System
SNOW	Short Notice Outage Work
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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/29/87 - 10/30/87 *md*

From: Everett F. Hayes
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

Shift briefing.
Toured the Plant.
Talked with Operations and Maintenance personnel.

B. Immediate safety problems

NONE

EFH/md
★/JWG/dj/sr/dj

10/29/87
10/30/87 *md*

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

EFH/md
★/JWG/dj/sr/dj

10/29/87
10/30/87
md

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MOS DAILY REPORT

E. Strengths
NONE

F. Area(s) for improvement
NONE

EFH/md
★/JWG/dj/sr/dj

10/29/87
10/30/87 md

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MOS DAILY REPORT

G. Recommendations
NONE

Completed By: Everett F. Hayes

Date: 10/30/87

Reviewed By: *Richard A. Mende*
MOS Observer
Operations Superintendent - Nuclear

Date: 10-30-87

7/9/87 10/30/87

FINAL PAGE

EFH/md
★/JWG/dj/sr/dj

10/29/87
10/30/87 *md*



Management-on-Shift
(MOS)

ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
CCW	Component Cooling Water
DG	Diesel Generator
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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/30/87

From: P. L. Fincher
(MOS Observer)

Shift: ☒ Day
☐ Night

A. Plant evolutions observed

- Observed outage status meeting.
- Morning plant management meeting.
- Shift briefings and shift turnover.
- Observed RCO's in the performance of post maintenance testing on Unit 3 charging pump, Unit 4 atmospheric steam dump control valve.
- Observed licensed and non-licensed operators in the performance of routine shift duties.
- Observed nuclear turbine operators during initial stages of valve alignment for purging H₂ from the generator with CO₂.

B. Immediate safety problems

None observed

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

PLF/md

★/JWG/dj/sr/dj

10/30/87



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MOS DAILY REPORT

E. Strengths

None observed

F. Area(s) for improvement

The large number of backlogged Plant Work Orders (PWO) continues to be an area where management should focus resources. This backlog places a significant burden on operators in the performance of routine and non-routine duties, and results in a large number of on-the-spot-changes to procedures (OTSC's).

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10/30/87

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MOS DAILY REPORT

G. Recommendations

Plant management should provide the needed focus on the PWO backlog to stimulate timely closeout.

Completed By: P. L. Fincher
MOS Observer

Date: 10/30/87

Reviewed By: *U. A. Kaminski*
Operations Superintendent - Nuclear

Date: 11/2/87

11/5-11/2/87
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★/JWG/dj/sr/dj

10/30/87



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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/30/87

From: Russell Gouldy
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- 3 shift meetings
- NO Logs
- TO Logs
- RCO turnovers
- PSN turnovers
- Walkdown intake, Auxiliary Building, Unit 3 Secondary and Rad Waste Building.

B. Immediate safety problems

NONE

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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

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MOS DAILY REPORT

E. Strengths

Good midnight shift meeting. Attended by all Operators, Electrical Supervisor, Mechanical Supervisor, I&C Supervisor and HP Supervisor. The TO had reviewed his work and procedures and noted that the generator cooler filters had to be replaced prior to start on the procedure. Maintenance requested PWO at meeting and work was started. This saved time and allowed smooth flow of work for both departments.

F. Area(s) for improvement

None on this shift.

RG/md
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10/30/87



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MOS DAILY REPORT

G. Recommendations

- TO's - Requested step ladders for 4160v bus rooms. This allows them to reach potential fuses. Now they stand on buckets.
- Need a tool box for turbine equipment.

Completed By: Russell Gouldy

Date: 10/31/87

Reviewed By: *V. A. K...*
MOS Observer
Operations Superintendent - Nuclear

Date: 11/2/87

11/2/87
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RG/md
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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/30/87
10/31/87 *10 PM RGM*

From: Everett F. Hayes
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- End of shift briefing.
- Pre-shift briefing.
- General plant inspection/tour of intake area, feedwater platforms, turbine deck, cable spreading room and maintenance buildings.

B. Immediate safety problems

NONE

EFH/md
★/JWG/dj/sr/dj

10/31/87

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

EFH/md
★/JWG/dj/sr/dj

10/31/87

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MOS DAILY REPORT

E. Strengths

NONE

F. Area(s) for improvement

NONE



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MOS DAILY REPORT

G. Recommendations
NONE

Completed By: Everett F. Hayes
MOS Observer

Date: 11 01 87
10/30/87

Reviewed By: *W. A. Fannin*
Operations Superintendent - Nuclear

Date: 11/2/87

H. J. 11/2/87
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MOS DAILY REPORT

C. Questionable work practices

NONE OBSERVED

D. Actions taken

NONE

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MOS DAILY REPORT

E. Strengths

Upon encountering an apparent discontinuity in TP-398, the operator immediately terminated testing and notified the APSN. After investigation it was determined that the procedure could not be completed as written.

F. Area(s) for improvement

NONE

PLF/md
★/JWG/dj/sr/dj

10/31/87



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MOS DAILY REPORT

G. Recommendations

NONE

Completed By: P. L. Fincher
MOS Observer

Date: 10/31/87

Reviewed By: *W. G. Kammer*
Operations Superintendent - Nuclear

Date: 11/2/87

11/2/87
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PLF/md
★/JWG/dj/sr/dj

10/31/87

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/31/87

From: Russell Gouldy
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- 3 shift meetings
- PSN turnover
- Unit 3 equipment swapping
 - 3A circulating waters on 3B off
 - 3A intake water on 3B off
- 480 volt motor grounds due to rain storms. OPS clearing grounds when located.

B. Immediate safety problems

NONE



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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

- Isolating and clearing 480 volt grounds by OPS staff.

KG/md
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10/31/87



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MOS DAILY REPORT

E. Strengths

OPS staff response to rain storms and resulting electrical grounds from runoff water.

F. Area(s) for improvement

None for this shift.

RG/md
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10/31/87

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MOS DAILY REPORT

G. Recommendations
None of this shift.

Completed By: Russell Gouldy
MOS Observer

Date: 11/01/87

Reviewed By: *U. A. Kaminski*
Operations Superintendent- Nuclear

Date: 11/2/87

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RG/md
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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 10/31/87
11/01/87 PEP for EFM

From: Everett F. Hayes
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- Shift briefing.
- Ground isolation procedure.
- HP tailboard meeting.
- General observations of maintenance activities.

B. Immediate safety problems

NONE

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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

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MOS DAILY REPORT

E. Strengths

DC ground occurred during rainstorm. Operators were very responsive in quickly isolating the ground using appropriate procedures.

Observed a meeting with HP personnel and maintenance regarding work on the 3A RHR pump. All personnel involved were present and the discussion focused on the work to be done, who was to do it, the exposures involved and specific protective clothing requirements.

F. Area(s) for improvement

Walked through a periodic test (TP-398) with the PSN. This procedure has been PNSC approved but either has ten (10) missing steps or a step numbering problem.

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MOS DAILY REPORT

G. Recommendations

I have observed, on nearly every shift, last minute call-ins from personnel on the on-coming shift which require substitute operators. In many cases this means forcing someone already on shift to holdover. The problem seems to be that the trend is getting worse.

Completed By: Everett F. Hayes

Date: 11/01/87

Reviewed By:

Vita A. Kammerer 778
MOS Observer
Operations Superintendent - Nuclear

Date: 11/2/87

11/2/87
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MOS DAILY REPORT

C. Questionable work practices
NONE OBSERVED

D. Actions taken
NONE

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MOS DAILY REPORT

E. Strengths
NONE OBSERVED

F. Area(s) for improvement
NONE



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MOS DAILY REPORT

G. Recommendations
NONE

Completed By: P. L. Fincher
MOS Observer

Date: 11/01/87

Reviewed By: Vito A. Kaminski
Operations Superintendent - Nuclear

Date: 11/2/87

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MOS DAILY REPORT

C. Questionable work practices

- Work associated with accumulator leakage and Event Response Team (ERT) has maintained the pressurizer at a low level (22%) per ERT.
- At approximately 8:00 P.M. another void was formed in Unit 4 reactor head. This void had a volume of approximately 100 ft³.
- Pressurizer level was raised to 40% to collapse the void.
- Void started to collapse at pre-level of 25%.

D. Actions taken

- A) 1) Walkdown of Unit 4 control boards and instruments indicated a void in Unit 4 reactor head.
- 1) Notified Unit 4 RCO
 - 2) Notified PSN
 - 3) Notified STA
- 2) Requested pressurizer level raised to collapse void.
- B) Discussed with ANPO's (on ICW pump failure) their safe work practices and acknowledged their good practices.



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MOS DAILY REPORT

E. Strengths

INTAKE COOLING WATER PUMP FAILURE:

- 1) Good communications between ANPO's and Unit 4 RCO prevented personnel injury when motor failed.
- 2) Good work practices by both ANPO's prevented their injury:
 - A) Inspected pump and motor prior to calling RCO for start.
 - B) Assured all personnel were clear of area - a 30 lb. cover flew 50 feet in the air striking a circulating water pump.
 - C) Stood on opposite side of motor from electrical connections during start.

CONCLUSION: THIS WAS A GOOD PRACTICE BY ALL INDIVIDUALS INVOLVED.

F. Area(s) for improvement

None on this shift.

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MOS DAILY REPORT

G. Recommendations

The heavy tropical rains caused numerous faults, made work conditions hard and required added attention for personnel safety. Both night shifts responded to the conditions without personnel injury or procedure violations.

A GOOD JOB BY ALL PERSONNEL ON BOTH SHIFTS.

Completed By: Russell Gouldy Date: 11/02/87
MOS Observer

Reviewed By: V. Q. Korman Date: 11/2/87
Operations Superintendent - Nuclear

Note: "Questionable work practice" at C, does not appear questionable - currently investigating.

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: ^{11/01/87}
~~11/01/87~~ *Plp for Remy*

From: Everett F. Hayes
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- Shift briefings
- Operator actions associated with the following:

Numerous problems with fire protection circuits apparently due to rainwater.

Failure of the motor connection leads on 4C intake cooling water pump during starting.

Electrical problems with cranking diesels 2, 4, 5. Arcing and smoke.

B. Immediate safety problems

NONE



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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

EFH/md
★/JWG/dj/sr/dj

02 44
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MOS DAILY REPORT

E. Strengths

Shift briefings for the midnight shift have been very informative (this is the only shift I observed). They cover industry events, plant status, work to be accomplished, plant policy, etc.

The professionalism of shift personnel has improved over what I have observed in the past. They are quiet, attentive, courteous and very responsive to abnormal situations.

F. Area(s) for improvement

There are too many outstanding Plant Work Orders on deficient equipment. It is very frustrating for the operators to observe these tagged items day after day with no apparent change in their status.

EFH/md
★/JWG/dj/sr/dj

62 DH
11/01/87

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MOS DAILY REPORT

G. Recommendations

As evidenced by our recent rework on PORV 456 on Unit 4, we do not yet have a good working I&C procedure for maintenance on this valve. Have the procedure writer go in the field with the individuals who have responsibilities for maintaining them. Also, set up an exact mock-up for this critical valve and require craftsmen to practice on it prior to the real thing.

Completed By: Everett F. Hayes
MOS Observer

Date: 11/02/87

Reviewed By: *W. A. Kaminski*
Operations Superintendent - Nuclear

Date: 11/2/87

11/2/87
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