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MANAGEMENT ON SHIFT (MOS)

WEEKLY	SUMMARY	REPORT

WEEK	STARTING: _	October 24	1987

PAGE	1	OF	1_	

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

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Procedure Title

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0-ADM-019

Management on Shift (MOS)

Approved Date

10/23/87

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ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/24/87

From:

P. L. Fincher

Shift:

⊠ Day

(MOS Observer)

mme:

Night

A. Plant evoluations 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

OF PAP for ROM

Procedural heatup rate limit of 90% per hour was exceeded during the collapse of the pressurizer bubble. A cooldown of $\approx 111^{\circ}F$ 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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Management on Shift (MOS)

Approved Date 10/23/87



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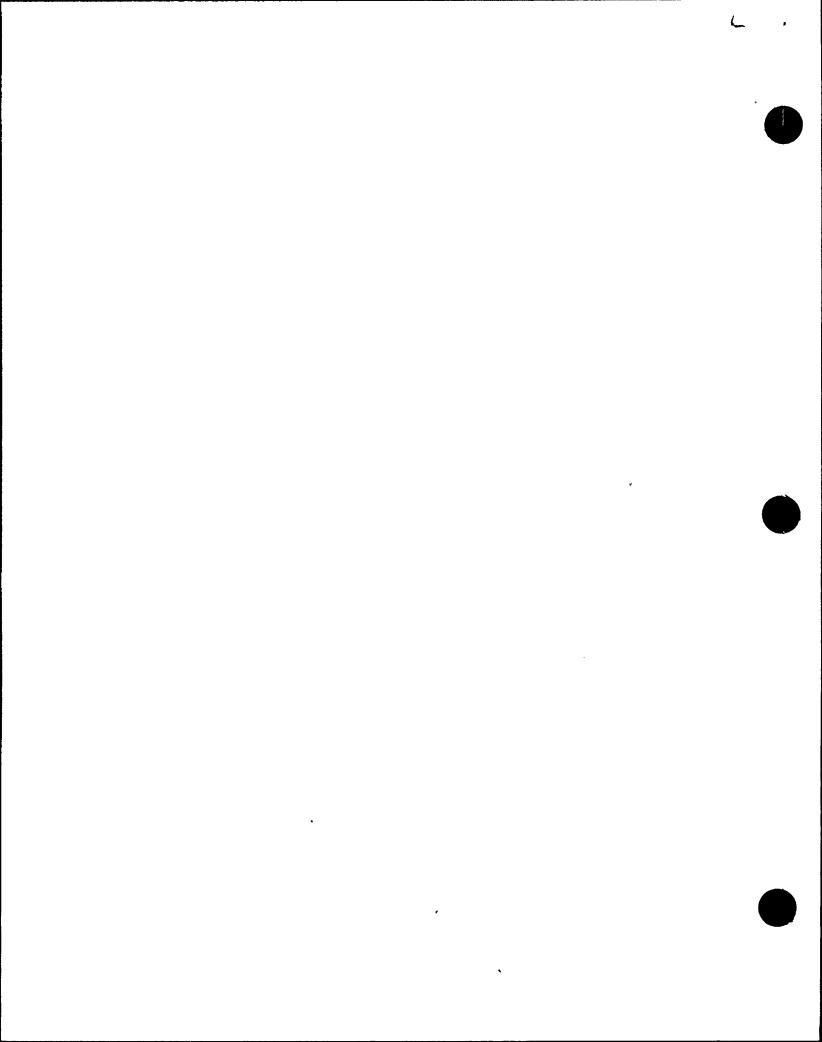
MOS DAILY REPORT

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.
- 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.



Proced	lure	No.
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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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

Date:

10/24/87

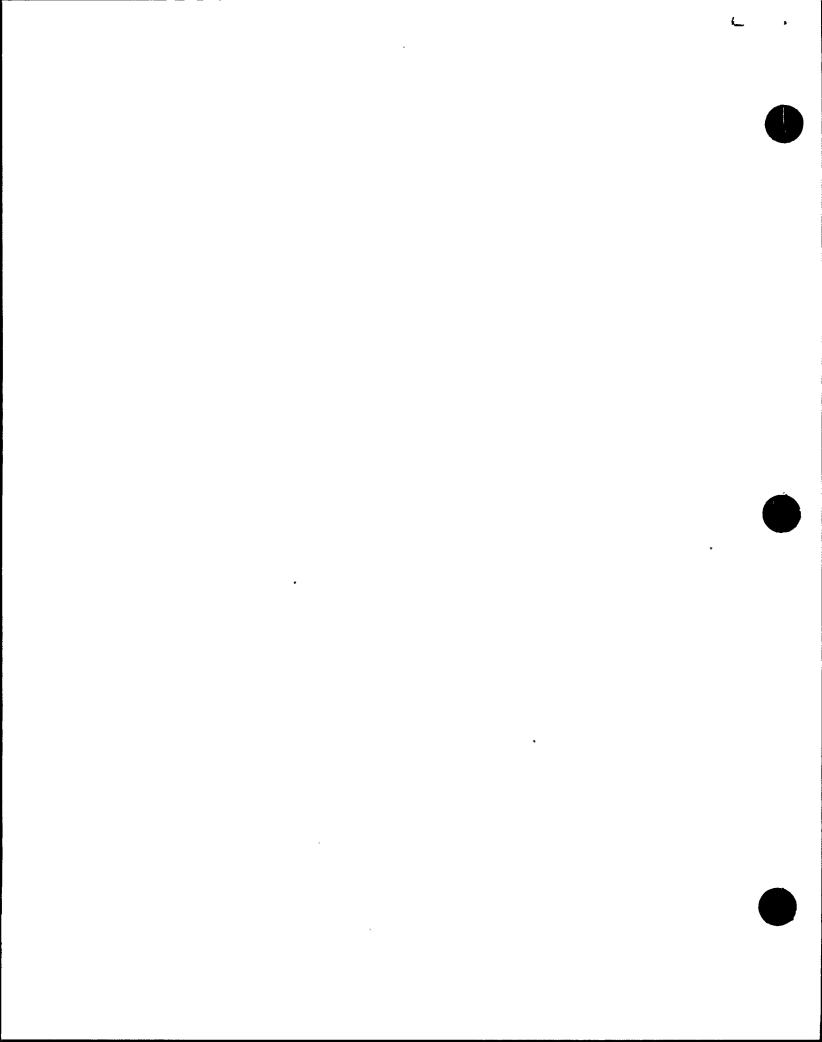
Completed By:

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MOS Observer

Operations Superintendent - Nuclear

Date: 10-26-87



Procedure Title

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



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MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/24/87

From:

Russell Gouldy

Shift:

Day

(MOS Observer)

Night Night

Plant evoluations observed A.

Completed 4-OP-041.7 <u>Draining the RCS</u>

Pressurizer Level stabilized at 86%

Unit 3 RCO determined CCW was leaking due to makeups and level drops.

- Notified NWE and PSN 1)
- Notified N.O. 2)
- N.O. finds "A" waste gas compressor valve leaking System isolated and PWO written on valve 3)
- CCW leakage isolated by steps 1 thru 4 above

4BICW pump test

В. Immediate safety problems

> 10/25/87 @ approximately 2:20 am (MOS in aux. bldg. at N.O. duty station) Preparations to repair PORV lead to void in reactor head as indicated by QSPDS;

Draining PRZ at time;

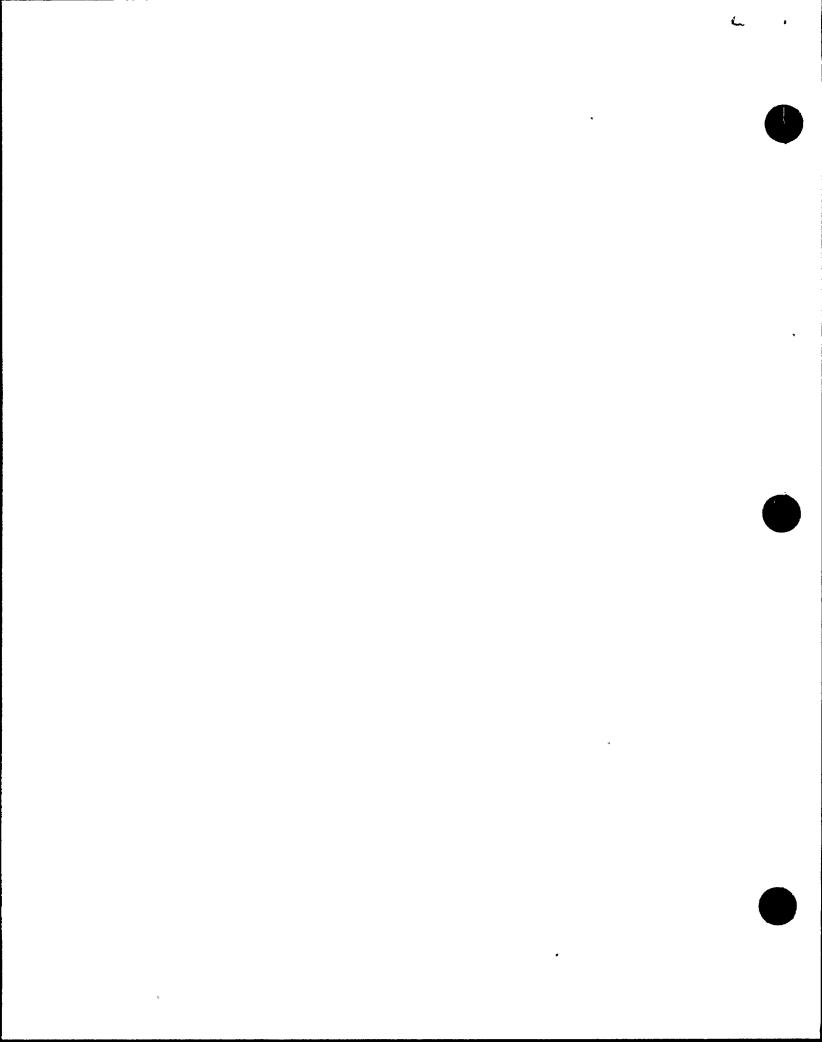
PSN notifies OPS - SÚPV & OPS-SUPT and activate/ERT IAW 0-ADM-011.

10/25/87 @ approximately 2:55 am

Recovery from void complete and NRC briefed by APSN & PSN

C. Questionable work practices

None noticed



Proce	dure	No.
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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

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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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

MOS DAILY REPORT

- Area(s) for improvement F.
 - Housekeeping outside the entrance to the intake area needs to be improved.

G. Recommendations

See item D above.

Completed By:

Bahram A. Abrishami

10/25/87 Date: 10/24/87

Reviewed By:

Date: 10-26-87

Operations Superintendent-Nuclear

Procedure Title

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0-ADM-019

Management on Shift (MOS)

Approved Date

10/23/87

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ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/25/87

From:

P. L. Fincher

Shift:

⊠ Day Night

(MOS Observer)

uiit: 5

A. Plant evoluations 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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Management on Shift (MOS)

Approved Date 10/23/87



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MOS DAILY REPORT

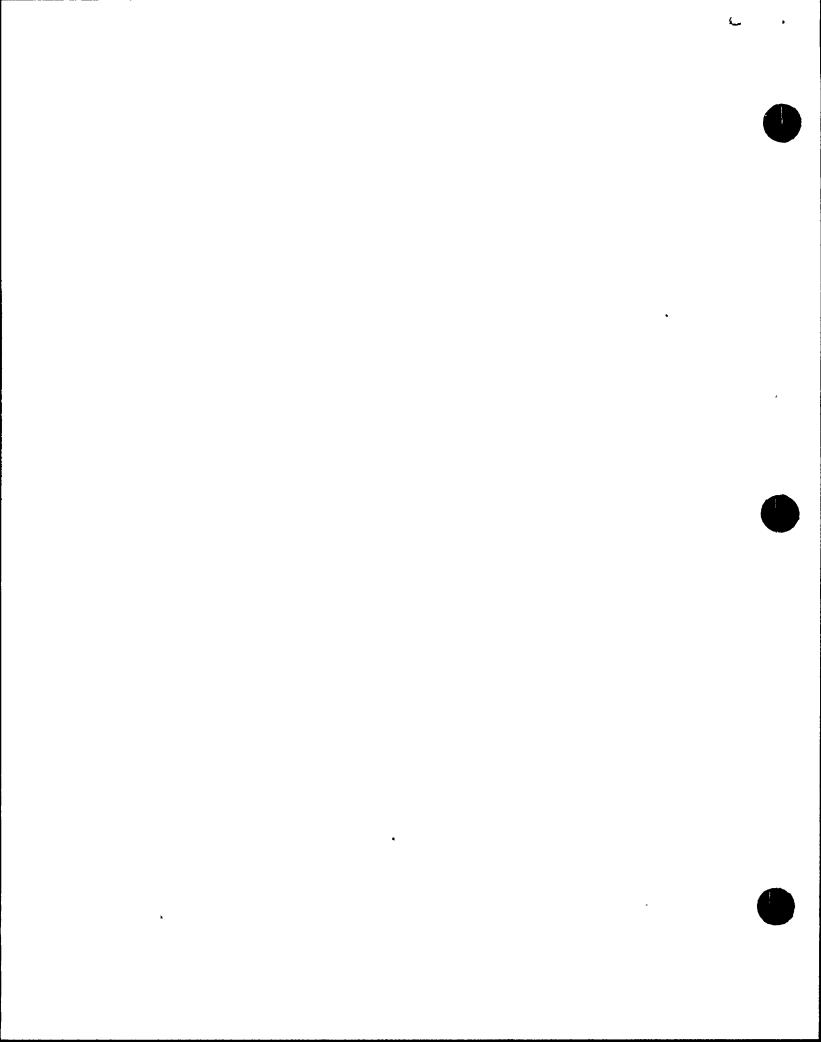
D. Actions taken

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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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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

Date:

10/25/87

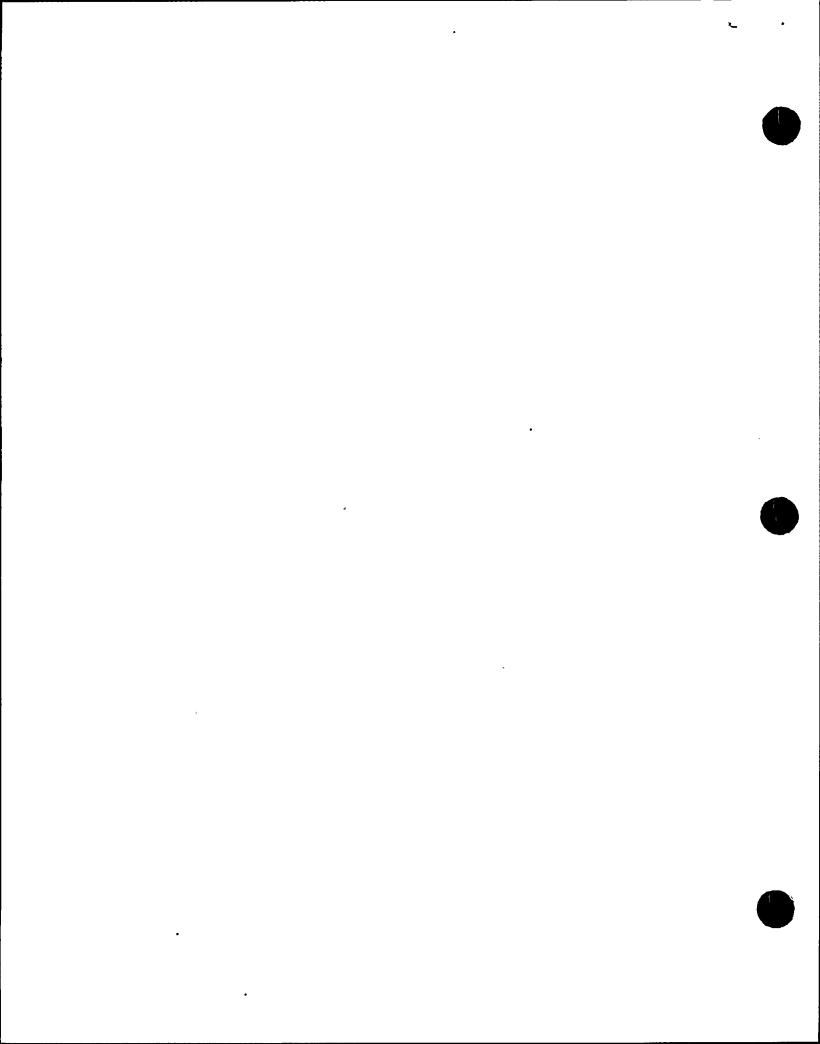
Reviewed By:

Wichard & Wents

MOS Observer

Operations Superintendent-Nuclear

Date: 10-76-87



Procedure Title

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10/23/87

0-ADM-019

Management on Shift (MOS)

Approved Date

ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/25/87

From:

Bahram A. Abrishami

Shift:

Dav

(MOS Observer)

Night Night

Plant evoluations observed A.

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.
- В. Immediate safety problems

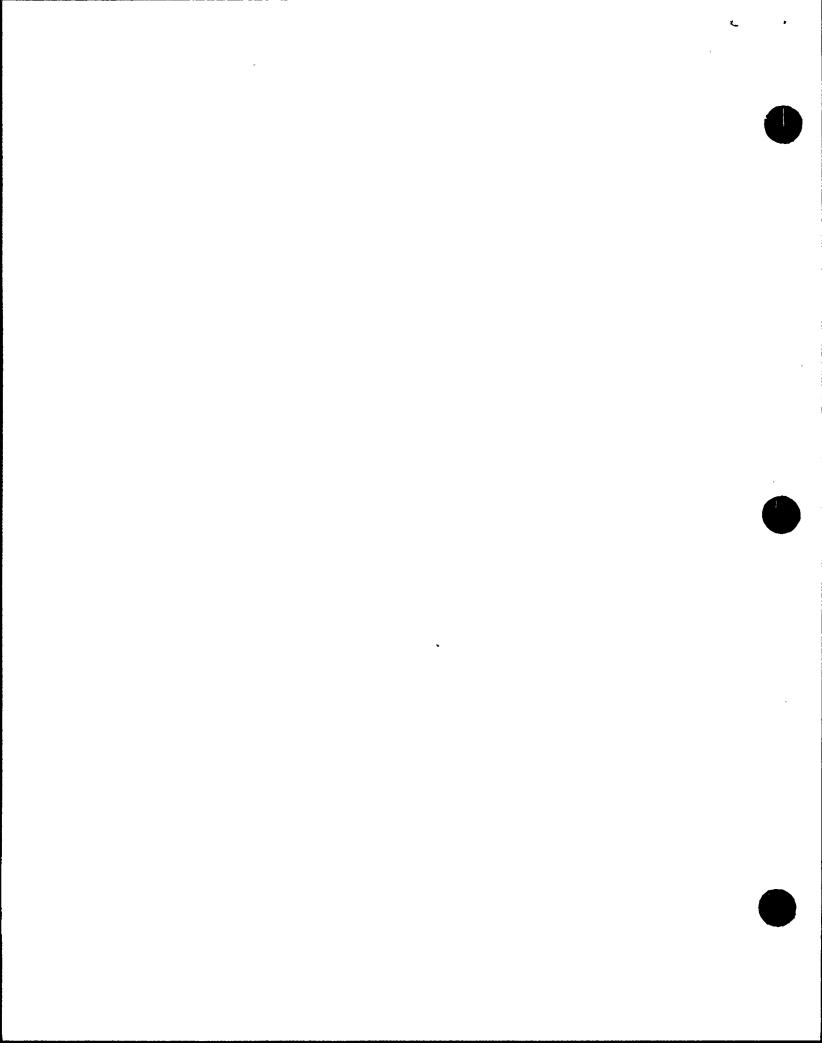
None

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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Management on Shift (MOS)

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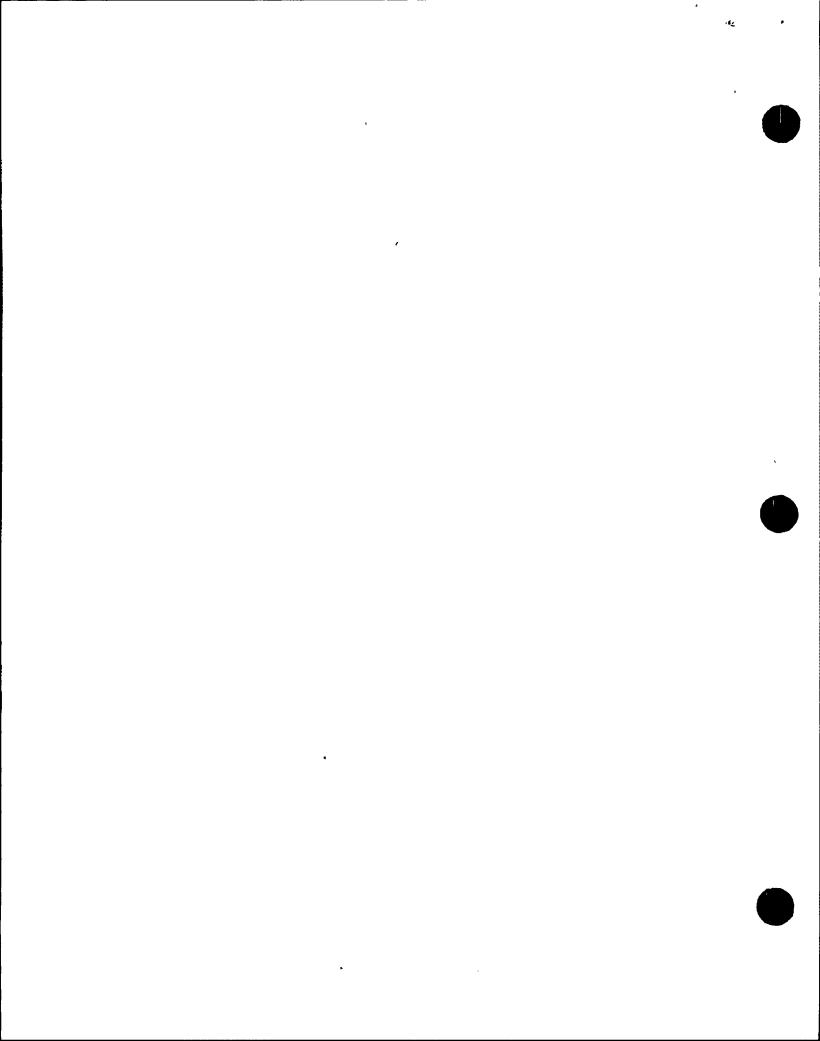
ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

No action was necessary to be taken by MOS.

E. Strengths



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Management on Shift (MOS)

Approved Date 10/23/87



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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:

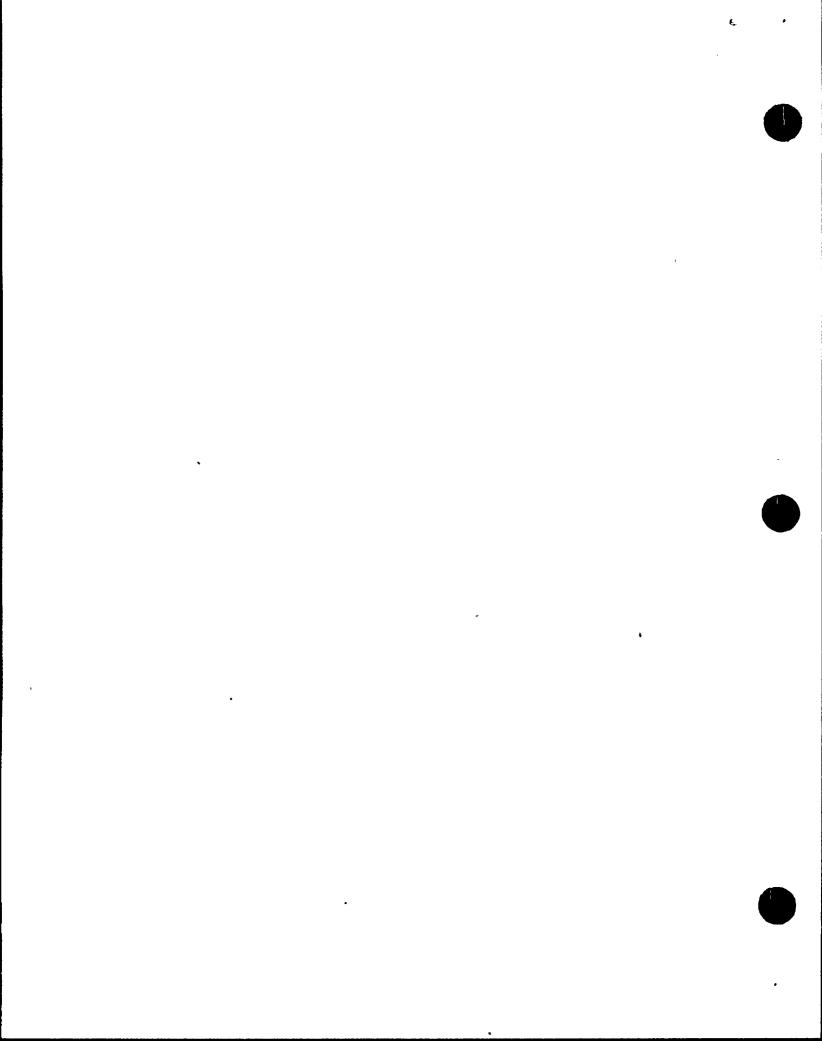
Bahram A. Abrishami

Date:

Reviewed By:

Operations Superintendent- Nuclear

Date: 10-26-87



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Management on Shift (MOS)

Approved Date

10/23/87



ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/25/87

From:

Russell Gouldy (MOS Observer)

Shift:

Day

Night Night

A.

Plant evoluations observed

Unit 4 - collapsing void in reactor head. Unit 4 - draining RCS (PRZ level 80% to 22%)

Unit 3 - to readings

Unit 3 and 4 - waste boron panel readings.

B.

Immediate safety problems

None

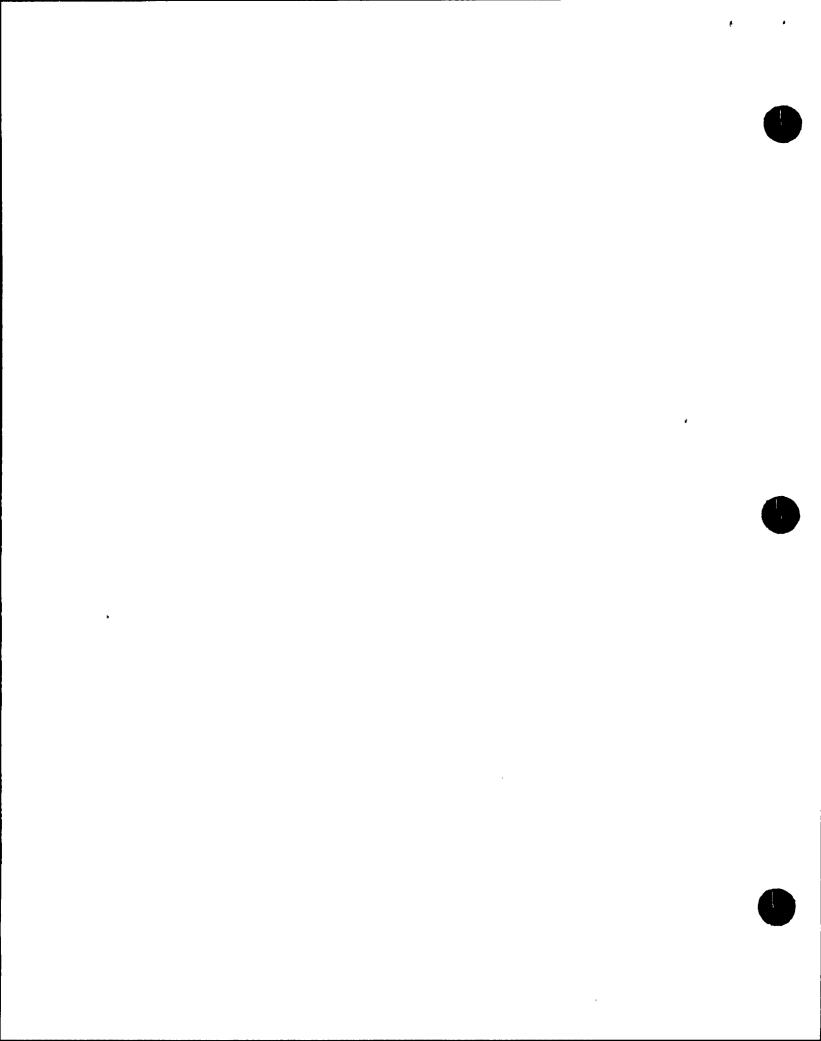
C.

Questionable work practices

Unit 3

Requested an auto makeup to the RCS but was prevented from adding boron due to a small piece of plywood stuck in the valve actuator. Sawdust and wood chips in the area.

Poor housekeeping leading to loss of one boration flowpath. Two other flowpaths were available.



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Management on Shift (MOS)

Approved Date 10/23/87



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MOS DAILY REPORT

D. Actions taken

None

E. Strengths

Both shifts exhibited good communication skills.

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Management on Shift (MOS)

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ENCLOSURE 1 (Page 3 of 3)

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

Date:

10/26/87

Reviewed By:

Villaid of Marke

Operations Superintendent- Nuclear

MOS Observer

Date: 10-76-87

Procedure Title

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/26/87

From:

P. L. Fincher

(MOS Observer)

Shift:

 □ Day Night

Α. 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.

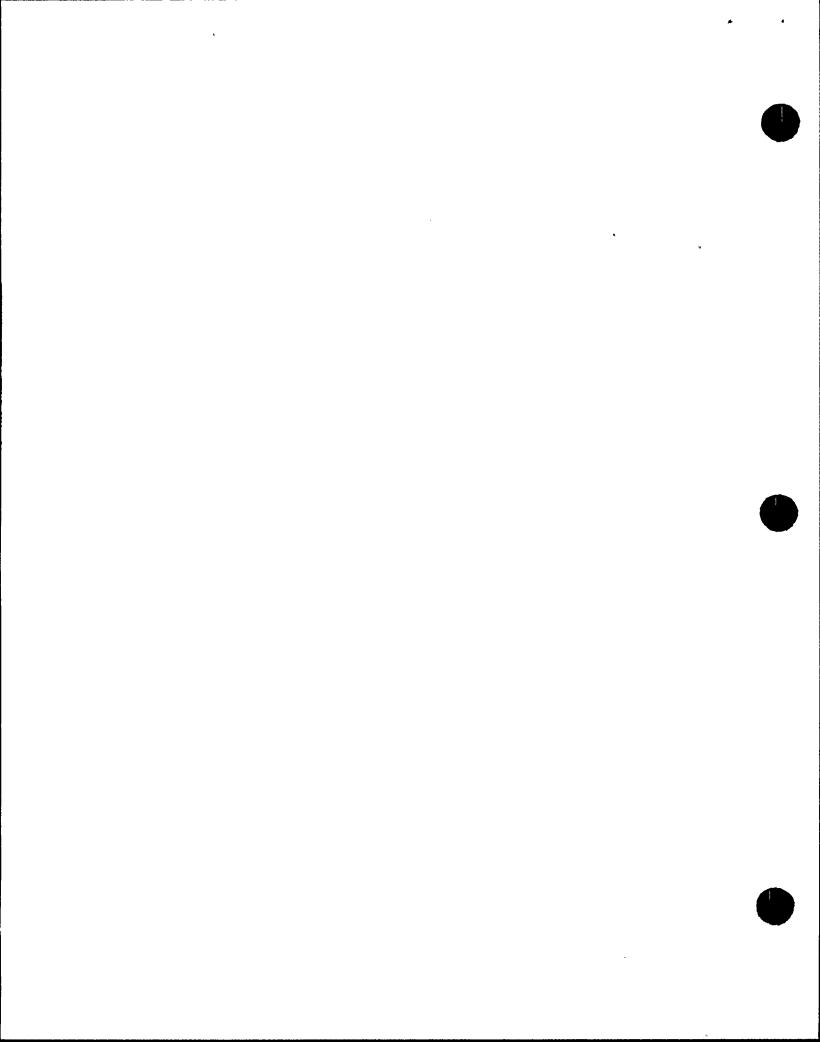
B. Immediate safety problems

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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Management on Shift (MOS)

Approved Date 10/23/87



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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

Procedure Title

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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.

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P. L. Fincher

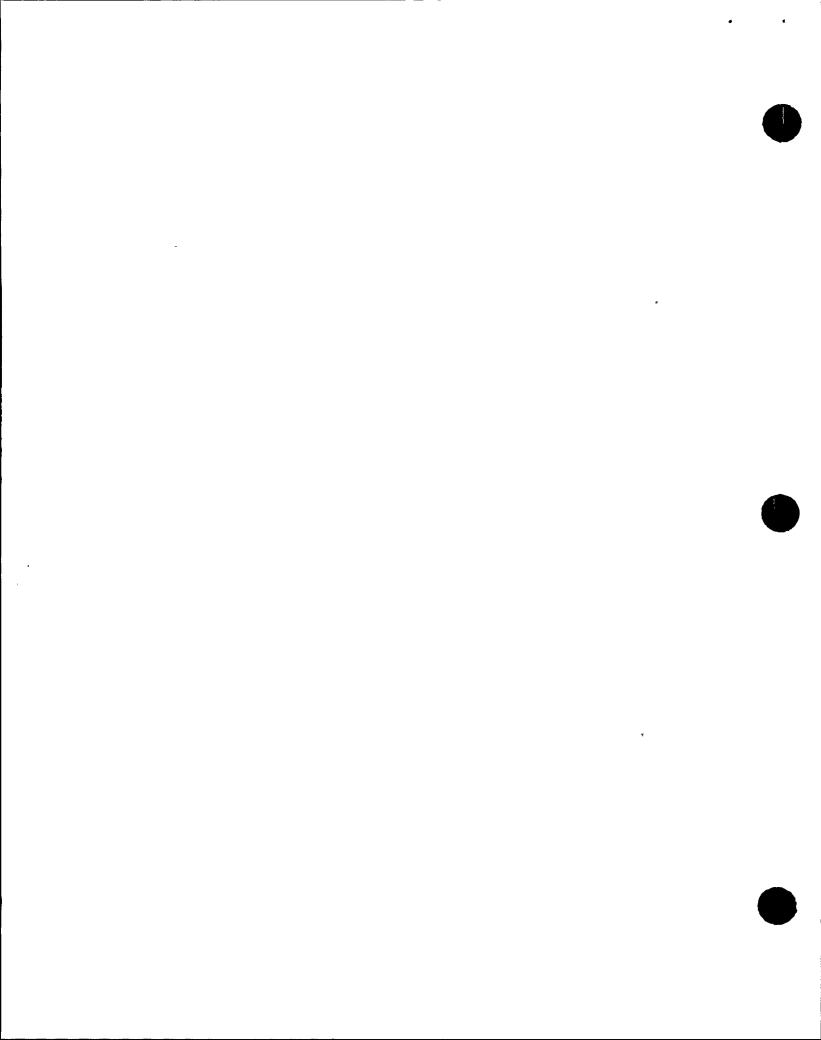
Date: 10/26/87

MOS Observer

Reviewed By:

Operations Superintendent- Nuclear

Date: 15-27-87



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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

ENCLOSURE 1 (Page 1 of 3)

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 Venting of A and B accumulators Unit 4

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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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

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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Proce	dure	No.

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

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ENCLOSURE 1 (Page 3 of 3)

MOS DAILY REPORT

F. Area(s) for improvement

- Housekeeping in areas behind control room's surveilance 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:

Rüssell Gouldy

Date:

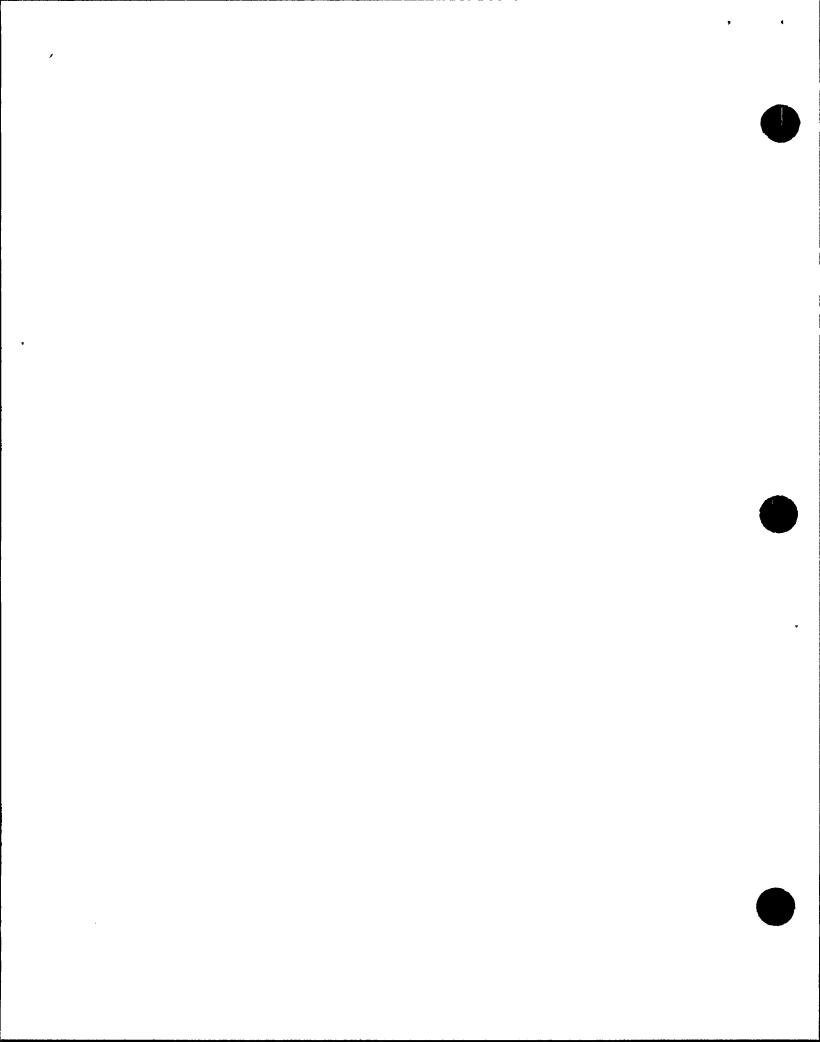
10/27/87

Reviewed By:

Nulland (N'Weulle Operations Superintendent-Nuclear

MOS Observer

Date: 10-27-97



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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

MOS DAILY REPORT

F. Area(s) for improvement

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

Recommendations G.

Shift to review ERT's findings on voiding.

Completed By:

Russell Gouldy

Date: 10/24/87

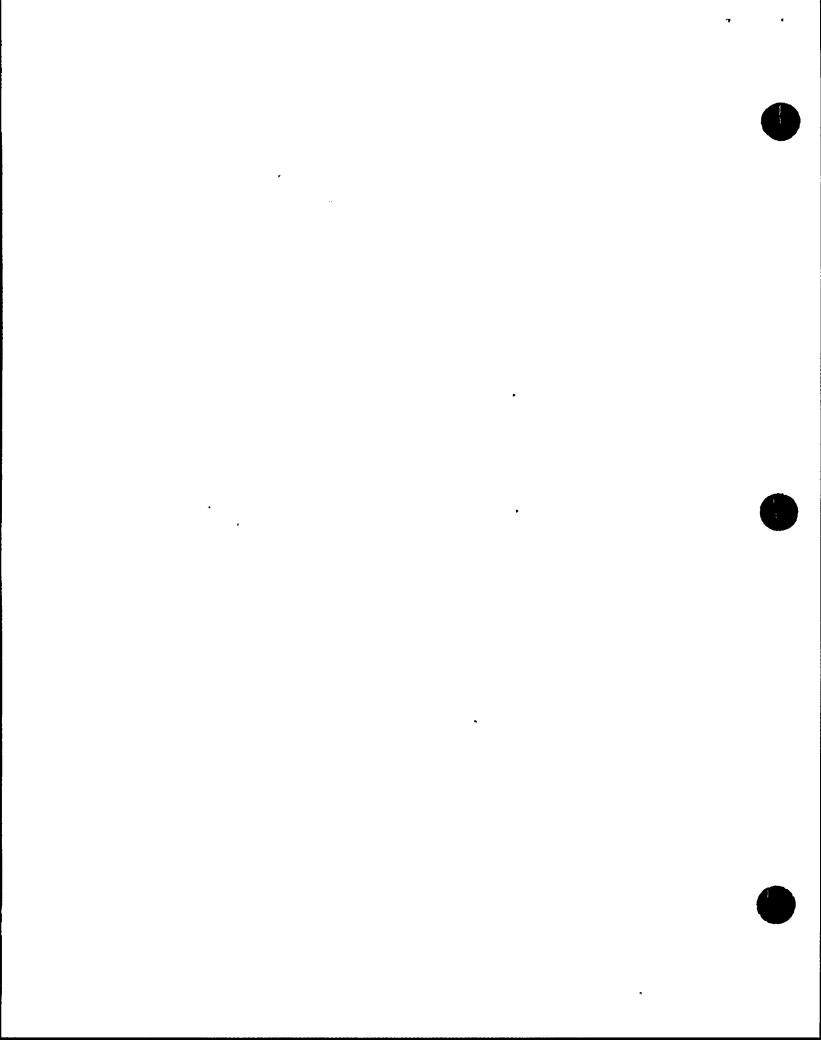
Reviewed By:

MOS Observer

Date: 10-76-87

Operations Superintendent- Nuclear

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Α.

Operation Superintendent - Nuclear

Date:

10/24/87

From:

Bahram A. Abrishami

Shift:

(MOS Observer)

Day Night Night

Plant evoluations 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

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

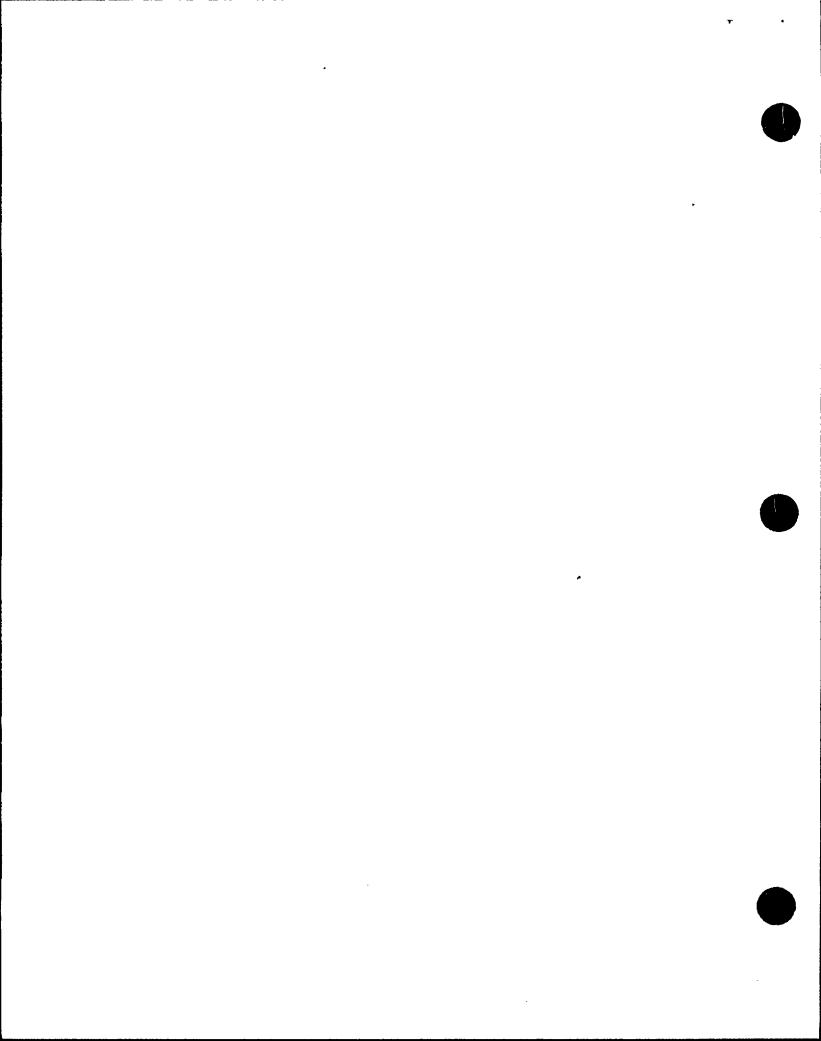
vessel head.

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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Management on Shift (MOS)

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ENCLOSURE 1 (Page 2 of 3)

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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Management on Shift (MOS)

Approved Date 10/23/87

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ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/26/87

From:

Bahram A. Abrishami

Shift:

Day

(MOS Observer)

Night

A. Plant evolutions observed

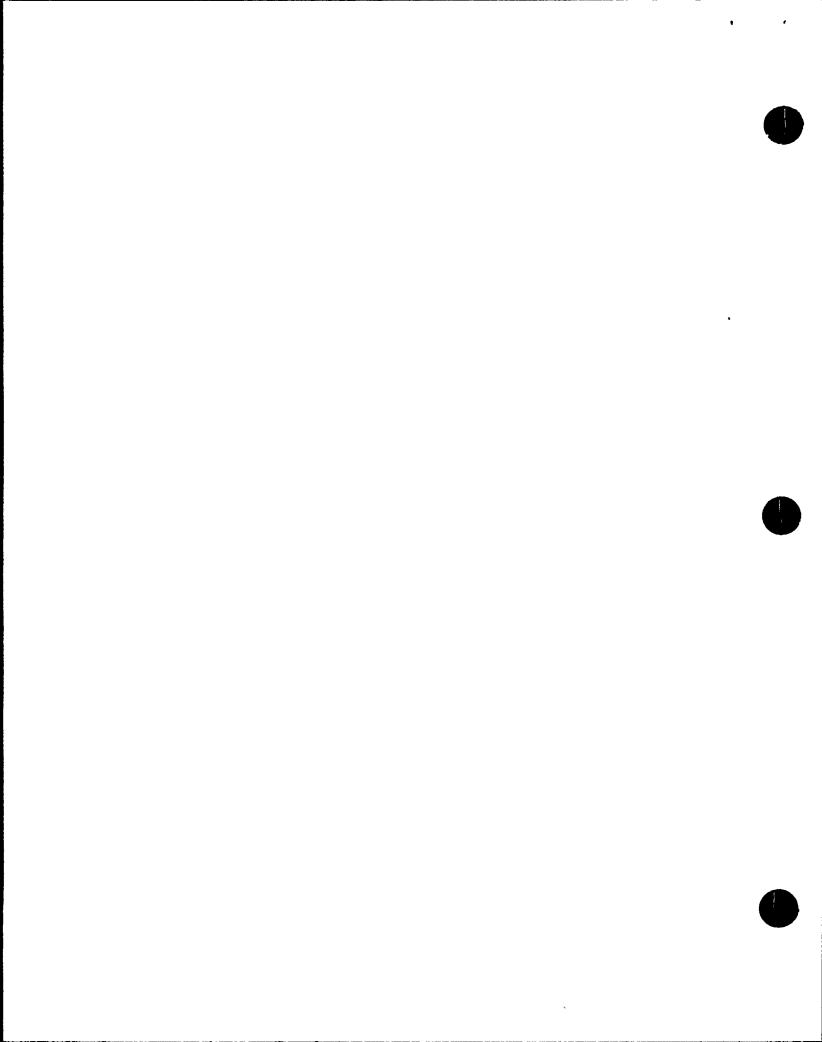
- APSN Shift turnover.
- PSN/APSN start of the shift meeting
- Walked Unit 3 and 4 control room boards.
- Reviewed Units 3 and 4 RCO daily Log for 1 AM 10/27/87 4-OSP-201.1.
- Test of area radiation monitors Unit 3.
- Valve in the 3A RHR PP for rotation test (RCS Pressure drop-stopped 3A RCP)
- Reviewed 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.

*/JWG/dj/sr/dj



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Management on Shift (MOS)

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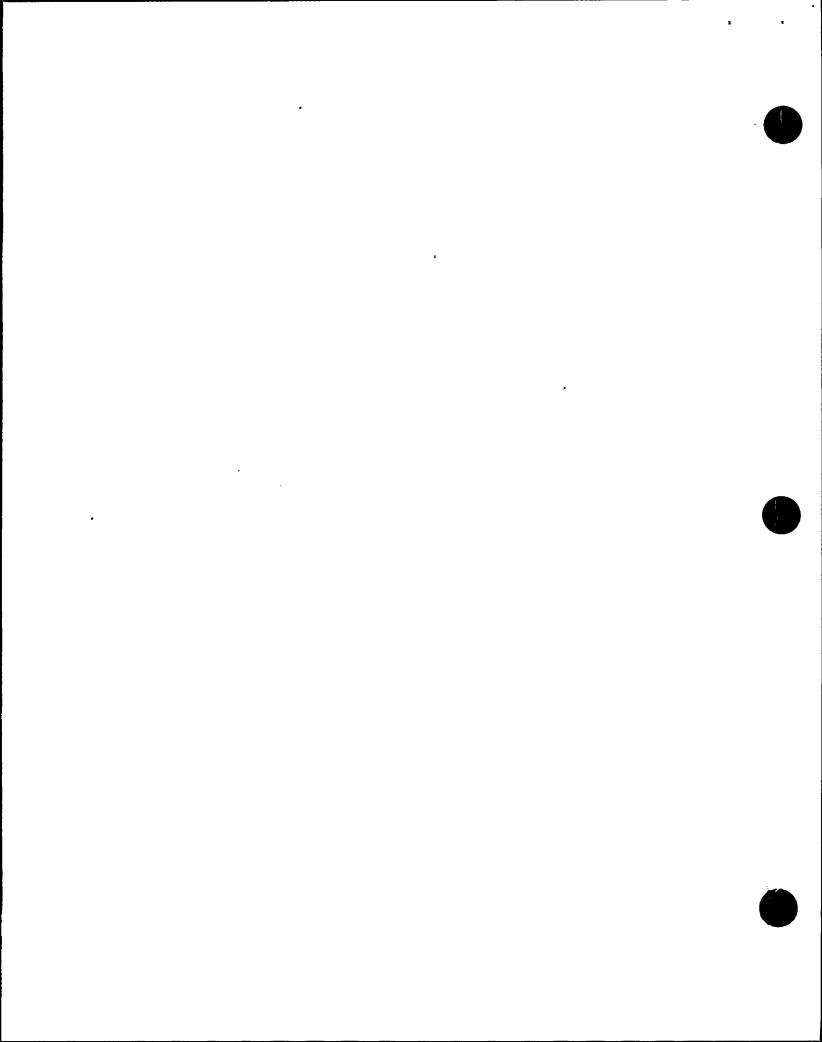
MOS DAILY REPORT

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.



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Management on Shift (MOS)

Approved Date 10/23/87

ENCLOSURE 1 (Page 3 of 3)

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

10/27/87 Date:

Reviewed By:

MOS Observer

Operations Superintendent- Nuclear

Date: 10-27-87

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 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

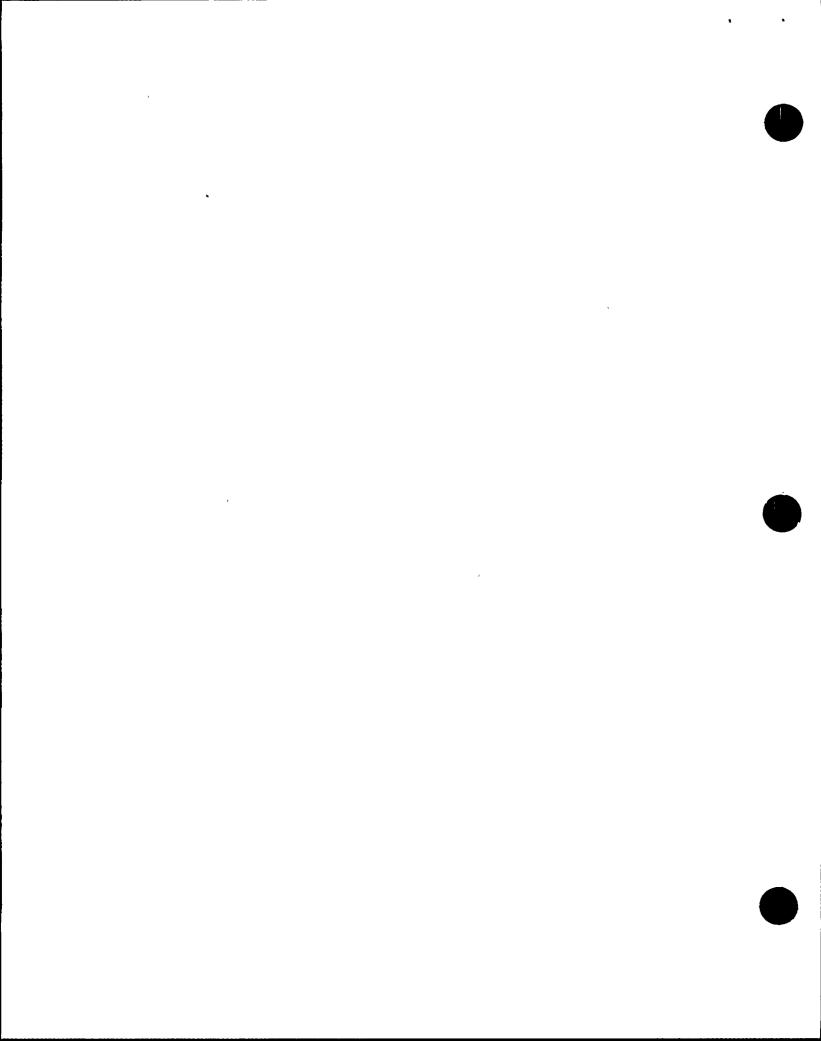
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

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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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/27/87

From:

P. L. Fincher

Shift:

図 Day

(MOS Observer)

Night

A. Plant evolutions observed

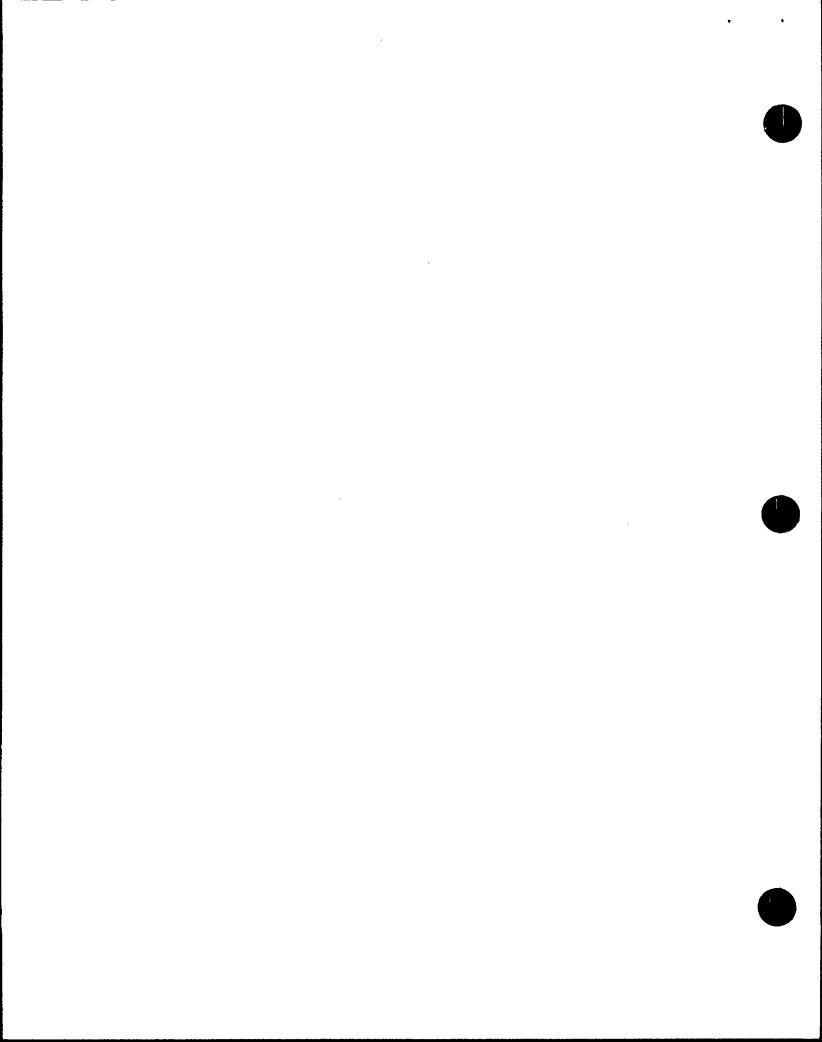
> Routine plant operations by licensed, non-licensed and supervisory Operations personnel. Observed normal shift communications, walkdowns of watch stations. Toured general areas of secondary plant and radiation controlled areas.

B. Immediate safety problems

NONE

C. Questionable work practices

> The hazardous waste drum identified on 10/26/87 remained in nonconformance 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 wast not.



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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

None

E. Strengths

PLF/md ★/JWG/dj/sr/dj

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

MOS DAILY REPORT

F. Area(s) for improvement

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

Recommendations G.

NONE

Completed By:

Reviewed By:

MOS Observer

Operations Superintendent-Nuclear

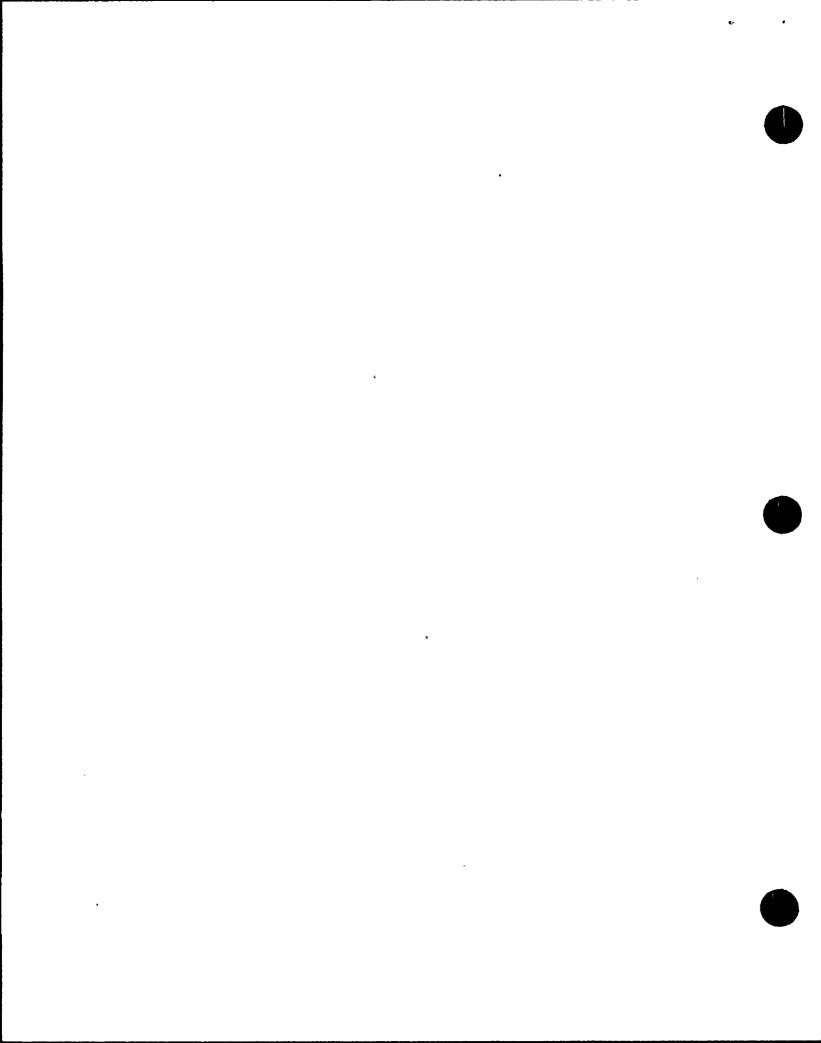
Date:

10/27/87

Date: 10-28-27

FINAL PAGE

PLF/md **★/JWG/dj/sr/dj**



Procedure	N	٥.
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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/27/87

From:

Bahram A. Abrishami

Shift:

Day

(MOS Observer)

Night Night

A. Plant evolutions observed

End of shift meeting (Peak Shift). 1.

Beginning of shift meeting (Mid Shift). 2.

Walked Units 3 and 4 boards in the Control Room. 3.

Walked Intake Cooling Water Pump area, Technical Support Center, Auxiliary Feedwater Pump Room.

5.

6.

Reviewed Units 3 and 4 RCO Logs, 3 and 4-OSP-201.1.
Reviewed Units 3 and 4 SNPO Daily Log outside reading 0-OSP-201.2
Walked the RCA with PSN (UNit 3 Sample Room, Unit 3 Charging 7. 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).

Handling of an injured (finger cut) non-contaminated person. 8.

B. Immediate safety problems

NONE

C. Questionable work practices

NONE

BAA/md */JWG/dj/sr/dj Procedure No.

Procedure Title

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

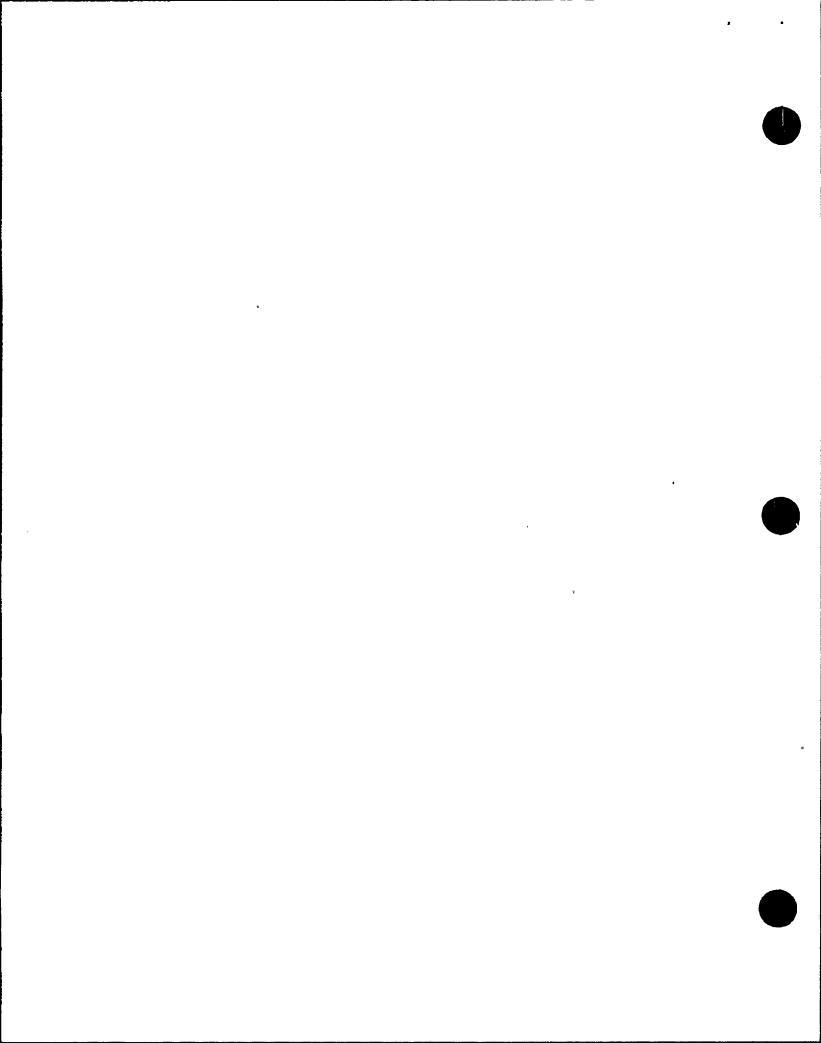
MOS DAILY REPORT

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

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



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Proced	lure	No.

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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:

Reviewed By:

Bahram A. Abrishami MOS Observer

Operations Superintendent- Nuclear

Date:

10/28/87

Date: 10-2항·영7

FINAL PAGE

BAA/md ★/JWG/dj/sr/dj

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

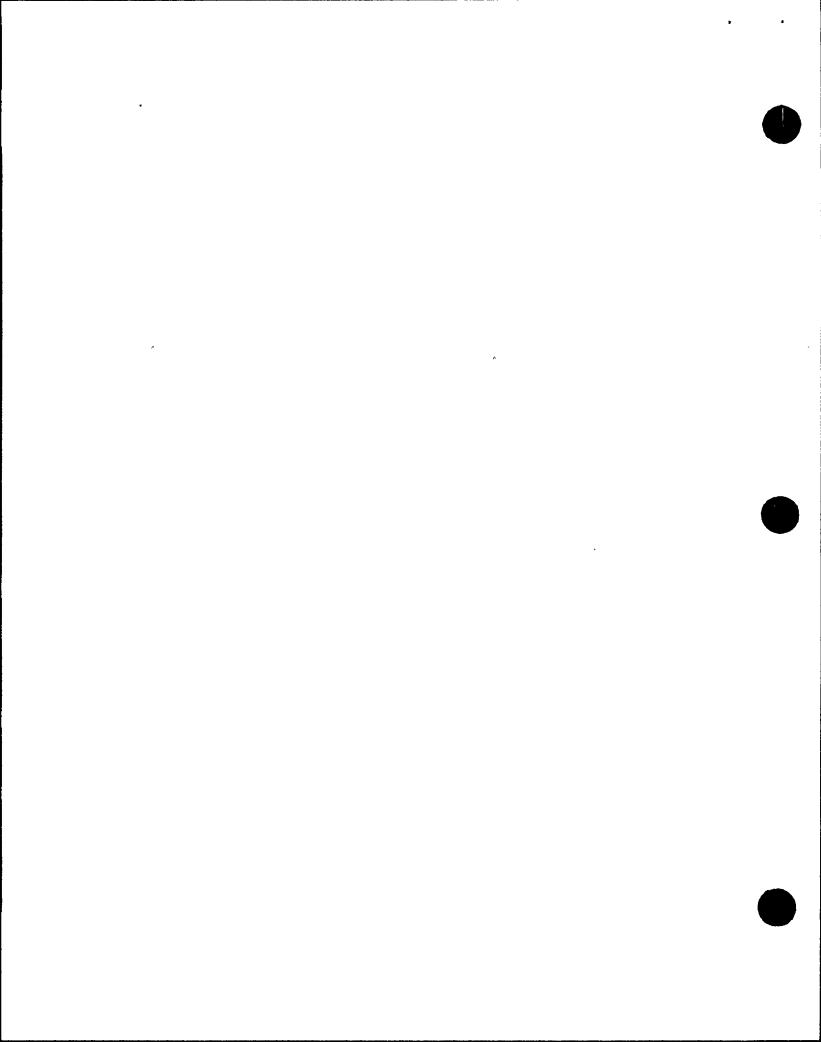
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

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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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/27/87

From:

Russell Gouldy (MOS Observer)

Shift:

Day

Night 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

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

None required.

E. Strengths

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

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Procedure	No.

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

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ENCLOSURE 1 (Page 3 of 3)

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

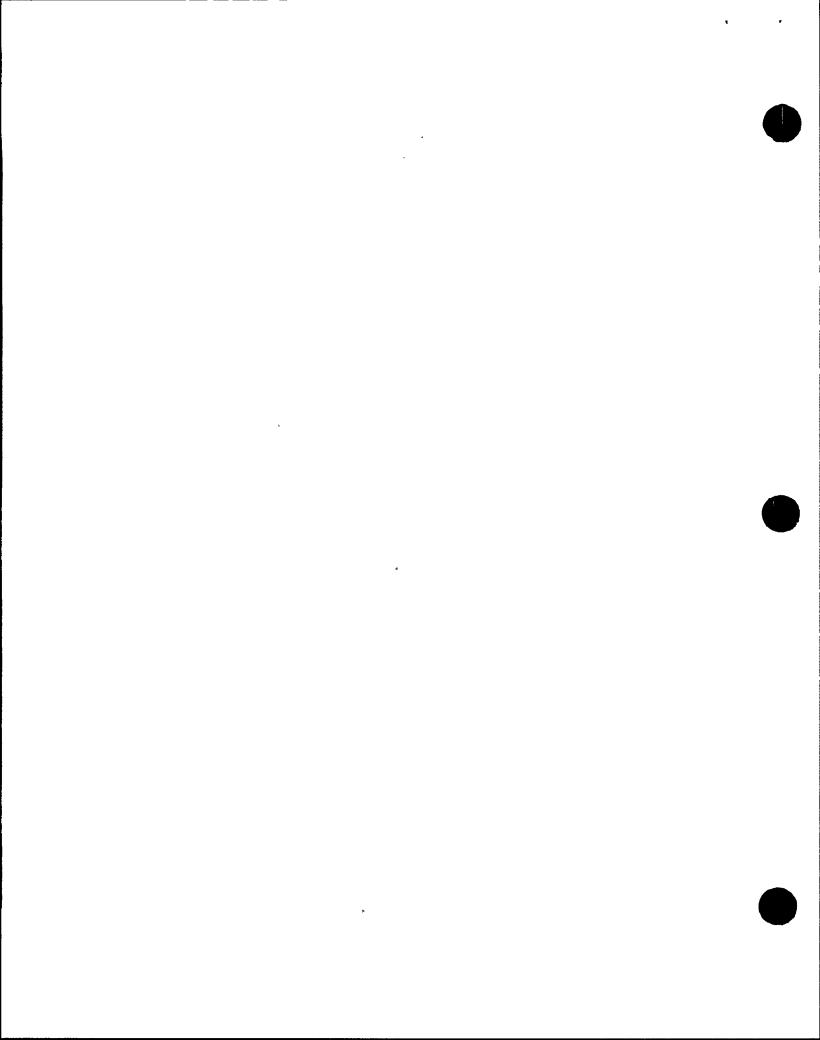
Reviewed By:

Operations Superintendent- Nuclear

Date: 10-28-87

FINAL PAGE

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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

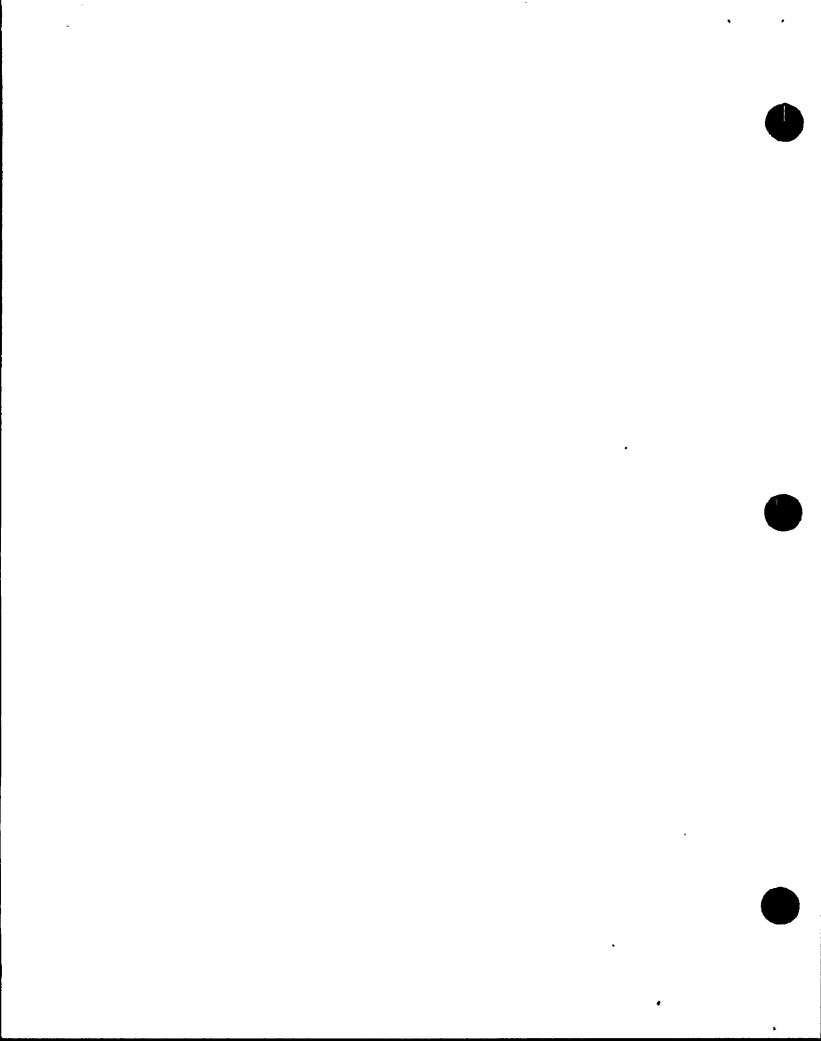
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

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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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/28/87

From:

Shift:

P. L. Fincher (MOS Observer)

⊠ Day Night

Plant evolutions observed A.

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.

Immediate safety problems B.

NONE

C. Questionable work practices

NONE

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Management on Shift (MOS)

Approved Date 10/23/87



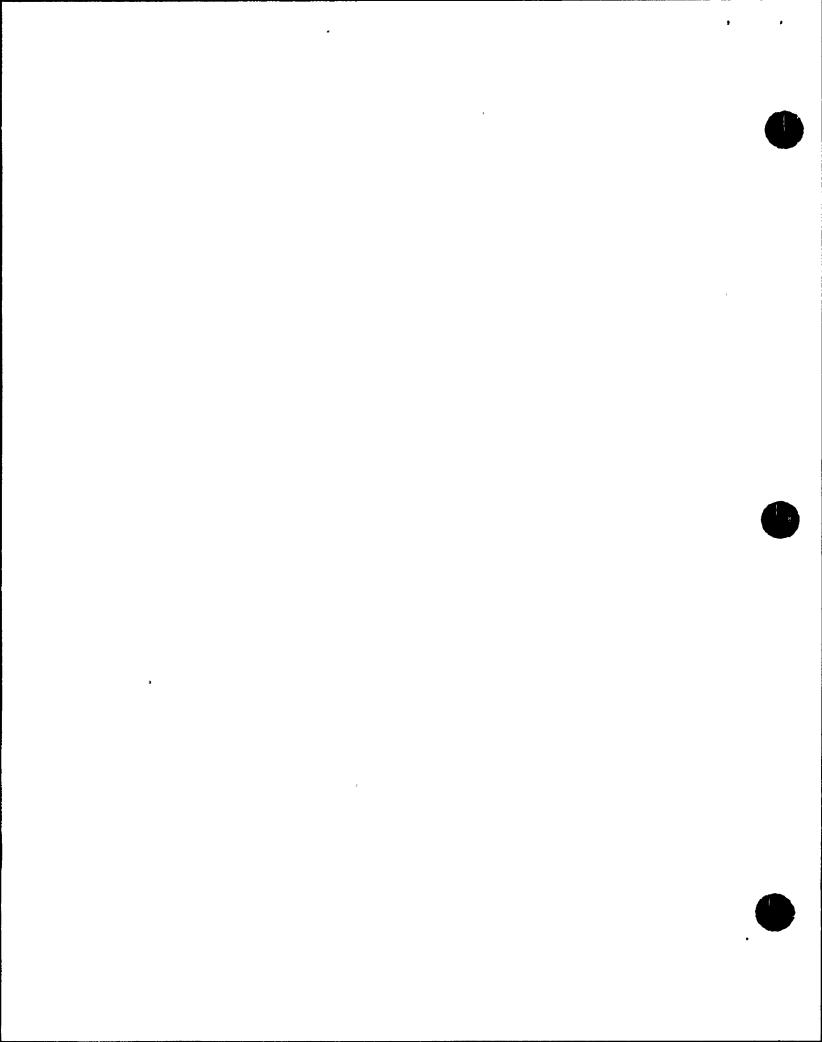
ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

NONE

E. Strengths



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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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 $\underline{\text{emphasis}}$ and $\underline{\text{focus}}$ eliminating the PWO backlog.

Completed By:

P. L. Fincher

Date:

10/28/87

Reviewed By:

Richard A Mark

MOS Observer

Date:

10-29-87

Operations Superintendent- Nuclear

87 F

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

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

ONOP Off Normal Operating Procedure
PORV Power Operated Relieve Valve

PRZ Pressurizer

PUP Procedure Upgrade Program

PWO Plant Work Order

QSPDS Qualified Safety Parameter Display System

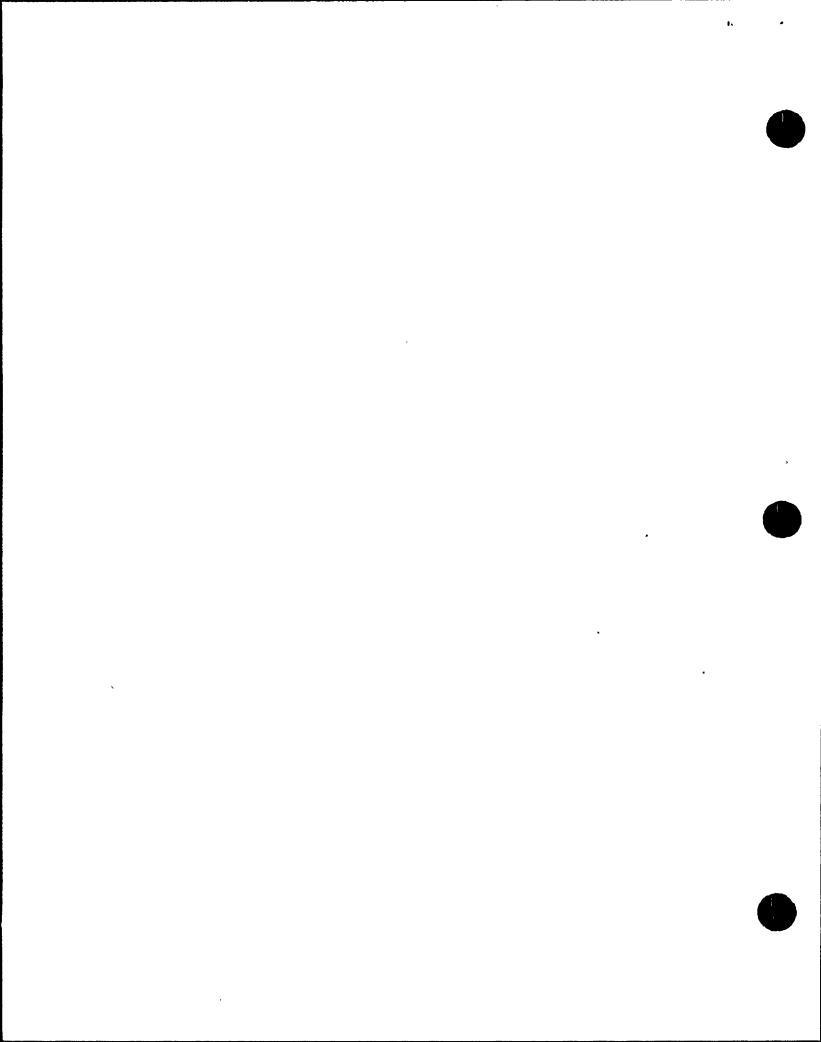
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

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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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

To:

Operation Superintendent - Nuclear

Date:

10/28/87

From:

Russell Gouldy (MOS Observer)

Shift:

Day

⊠ Night

- Plant evolutions observed A.

 - 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

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Management on Shift (MOS)

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Approved Date
10/23/87

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ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

NONE

E. Strengths

Restroom facilities opened in RCA. Nuclear Operators appreciated this.

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 3 of 3)

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

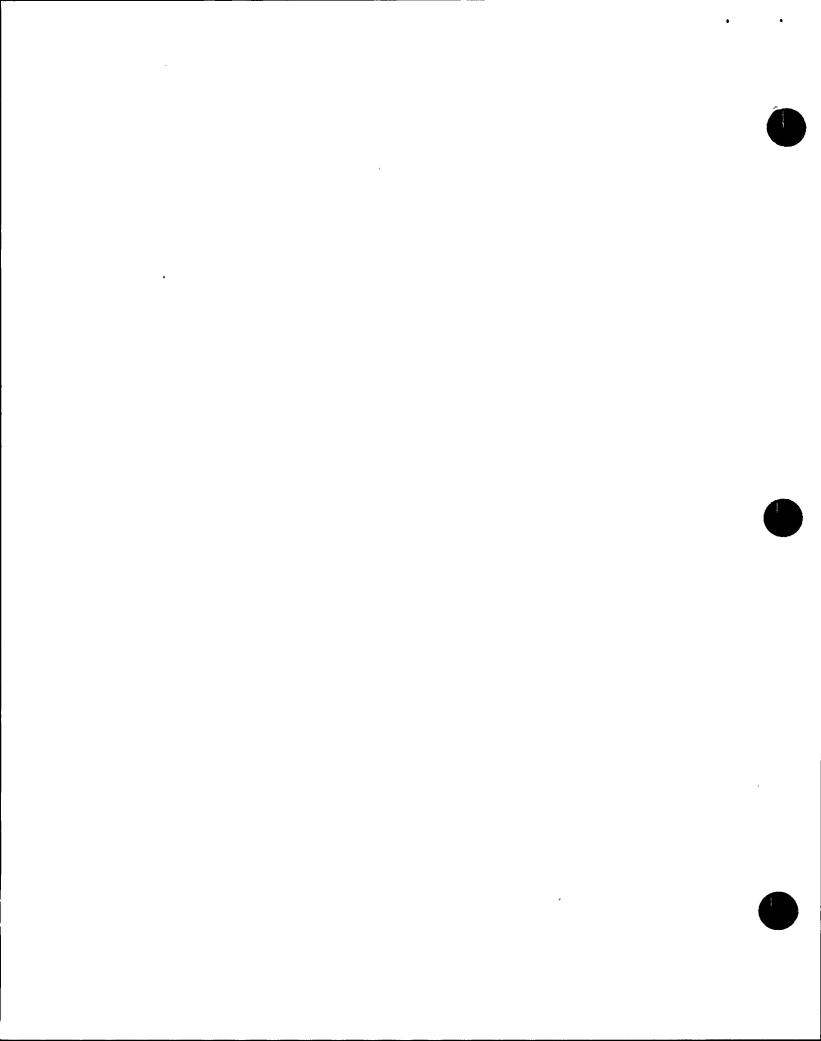
Reviewed By:

Operations Superintendent-Nuclear

Date: 10-29-87

FINAL PAGE

RG/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

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

ONOP Off Normal Operating Procedure
PORV Power Operated Relieve Valve

PRZ Pressurizer

PUP Procedure Upgrade Program

PWO Plant Work Order

QSPDS Qualified Safety Parameter Display System.

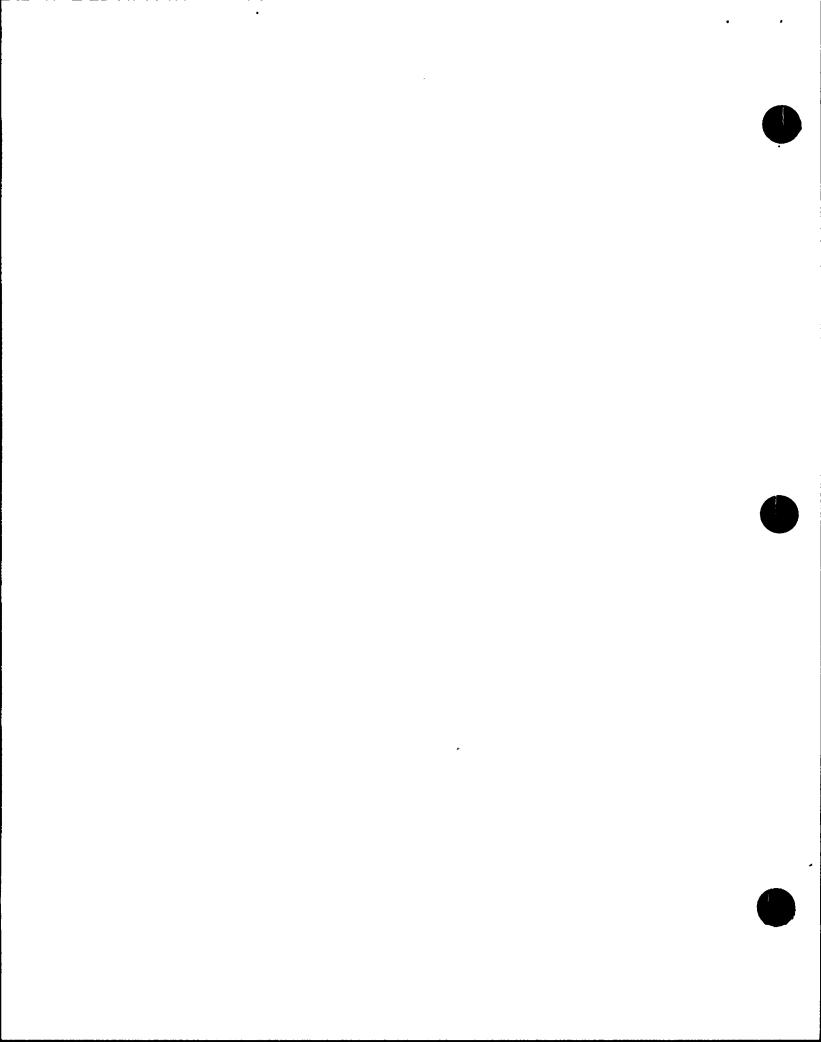
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

RV Reactor Vessel

SAS Safety Assessment System SNOW Short Notice Outage Work

SNPO Senior Nuclear Plant Operator
TSA Temporary System Alteration

TP Temporary Procedure



Procedure No.

Procedure Title

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

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ENCLOSURE 1 (Page 1 of 3)

MOS DAILY REPORT

10/28/87

To:

A.

Operation Superintendent - Nuclear

Date:

37 pt for Resy

From:

Everett F. Hayes

Shift:

Day Nigh

(MOS Observer)

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.

ئىرەئىز: 10/3/8/87

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Management on Shift (MOS)

Approved Date 10/23/87



ENCLOSURE 1 (Page 2 of 3)

MOS DAILY REPORT

D. Actions taken

NONE

E. Strengths

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

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/23/87

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ENCLOSURE 1 (Page 3 of 3)

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:

Operations Superintendent- Nuclear

Date:

10-29-87

FINAL PAGE

EFII/md
*/JWG/dj/sr/dj

19 m. j 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

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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

ONOP Off Normal Operating Procedure
PORV Power Operated Relieve Valve

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SNPO Senior Nuclear Plant Operator
TSA Temporary System Alteration

TP Temporary Procedure

Procedure No.

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/26/87

ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

To:

Operations Superintendent - Nuclear

Date:

10/29/87

From:

P. L. Fincher

Shift:

⊠ Day

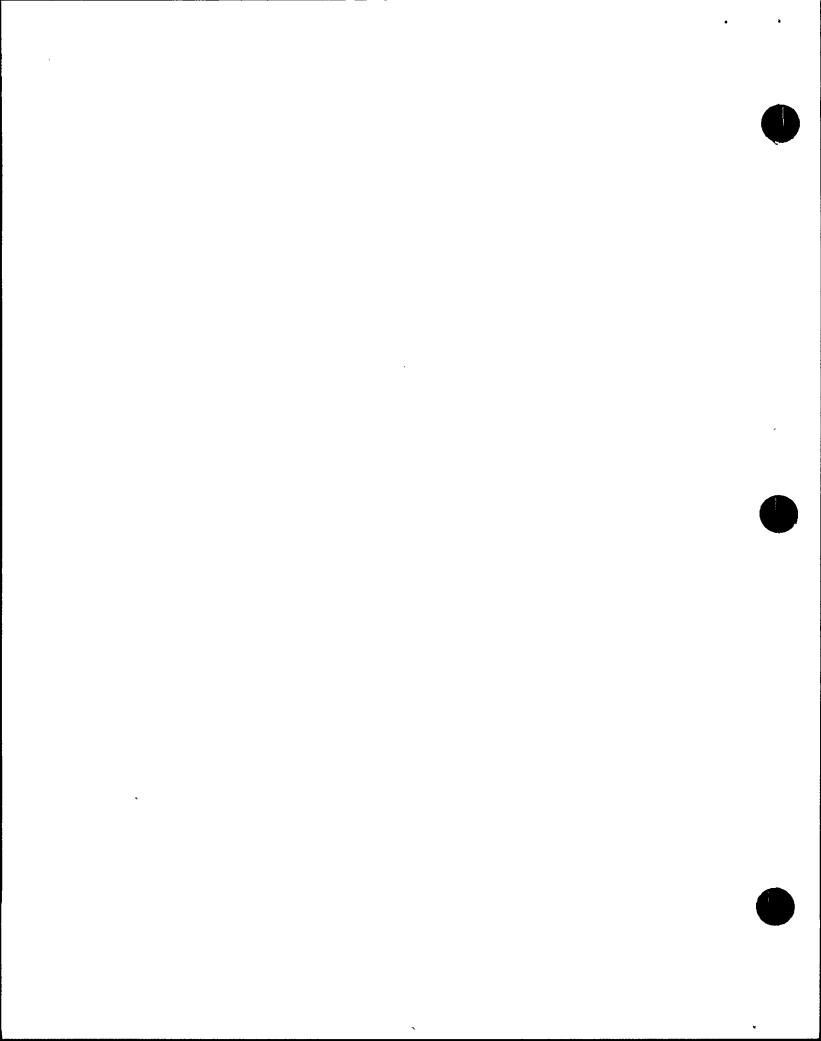
(MOS Observer)

□ 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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Management on Shift (MOS)

Approved Date 10/26/87



ENCLOSURE 1 (Page 2 of 4)

MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

Proce	dure	No

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Management on Shift (MOS)

Approved Date

10/26/87

ENCLOSURE 1 (Page 3 of 4)

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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Management on Shift (MOS)

Approved Date

10/26/87

ENCLOSURE 1 (Page 3 of 4)

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

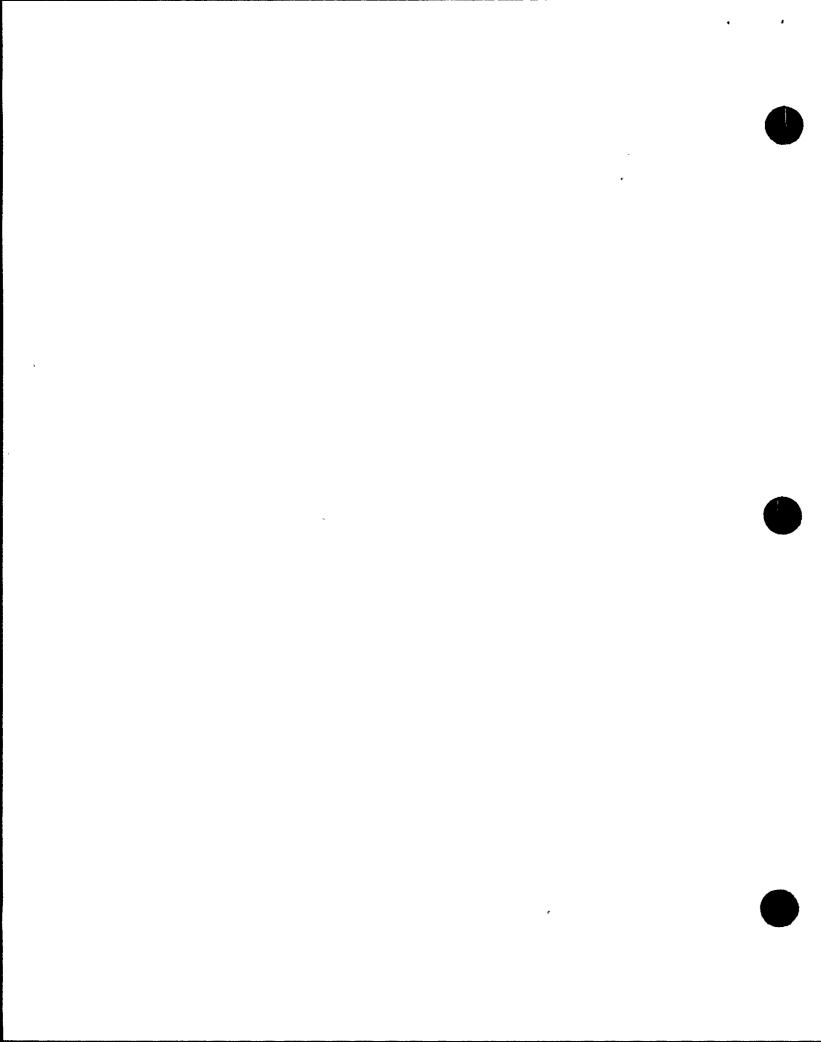
Reviewed By:

perations Superintendent-Nuclear

Date:

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PLF/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

CCW Component Cooling Water

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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

QSPDS Qualified Safety Parameter Display System

RCA Radiation Control Area
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SNOW Short Notice Outage Work

SNPO Senior Nuclear Plant Operator
TSA Temporary System Alteration

TP Temporary Procedure

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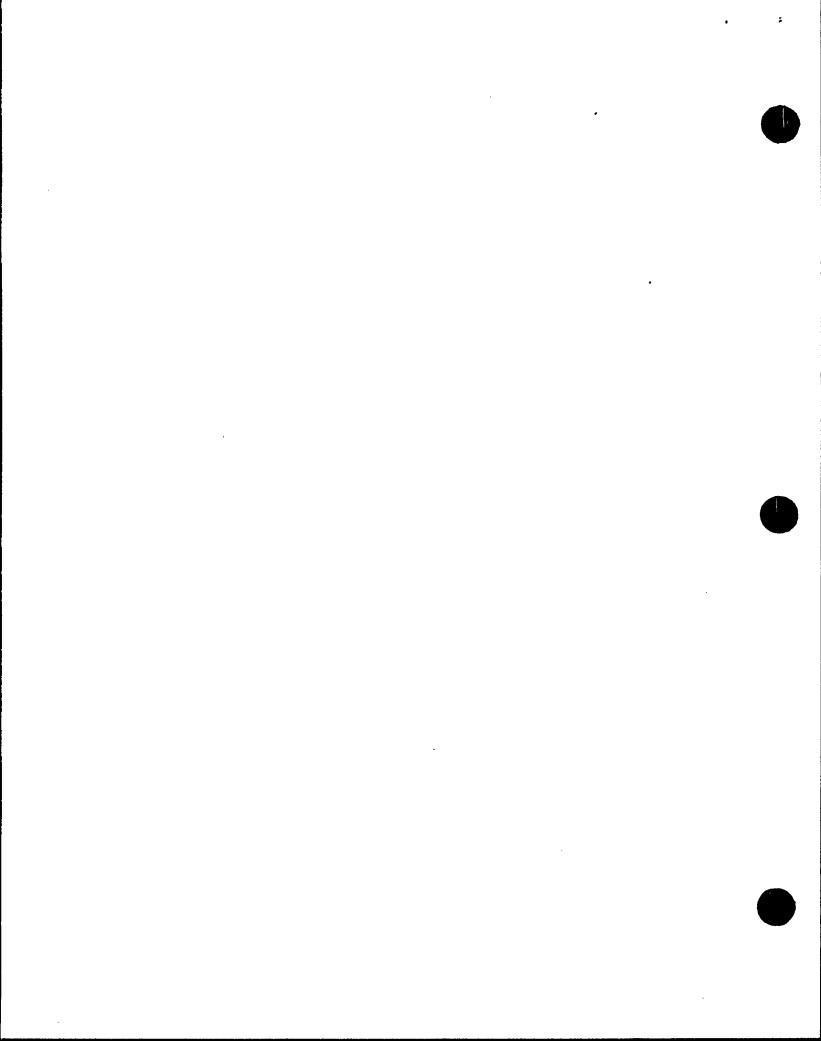
10/26/87

ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

To:	Operations Superintendent - Nuclear	Date:	10/29/87	
From:	Russell Gouldy	Shift:	□ Day	
	(MOS Observer)		⊠ Night	

- Plant evolutions observed A.
 - 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
 - $4A\ B\ C\ D; 3\ A\ B\ C\ D\ 480\ Volt\ Load\ Centers$
- Immediate safety problems B.



Procedure No.	Procedu

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0-ADM-019

Management on Shift (MOS)

Approved Date 10/26/87



ENCLOSURE 1 (Page 2 of 4)

MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

Procedure No.	P	ro	ce	d١	ır	е	N	ο.
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0-ADM-019

Management on Shift (MOS)

Approved Date 10/26/87



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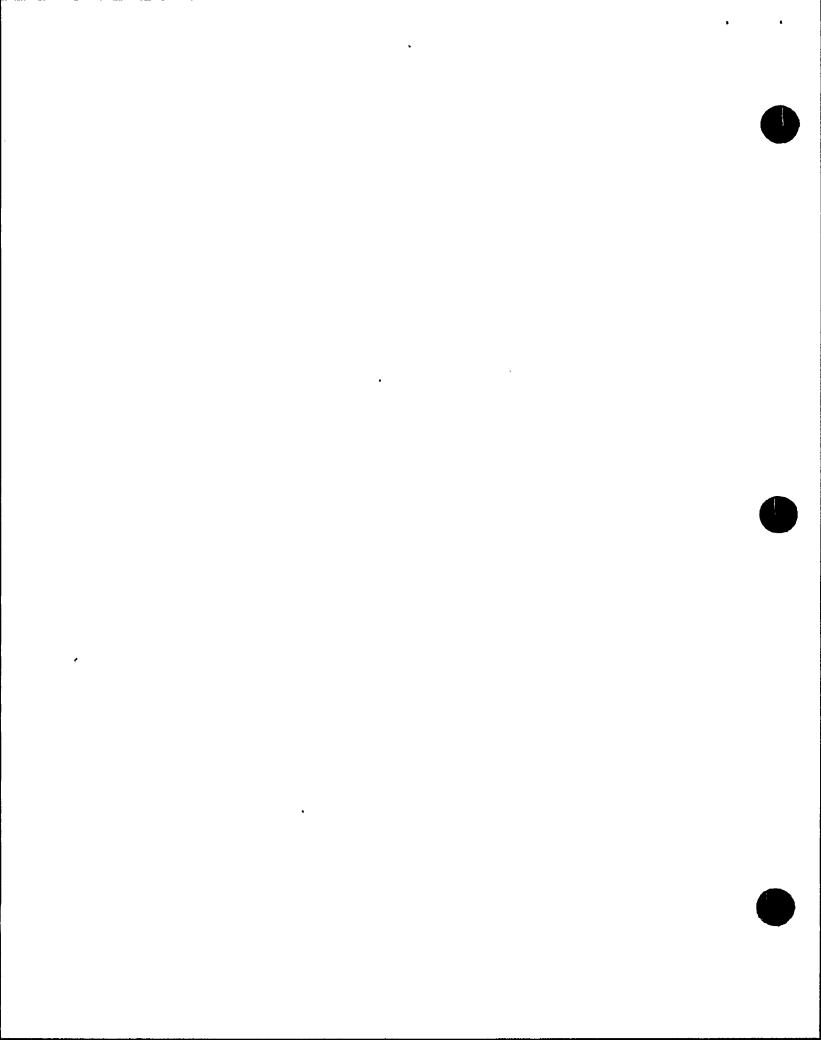
MOS DAILY REPORT

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.



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0-ADM-019

Management on Shift (MOS)

Approved Date 10/26/87



ENCLOSURE 1 (Page 3 of 4)

MOS DAILY REPORT

Recommendations G.

NONE

Completed By:

Russell Gouldy MOS Observer

Date:

10/30/87

Reviewed By:

Date: 10-30-87

₹G/md **★/JWG/dj/sr/dj** FINAL PAGE

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

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

Procedure No.	Procedure Title	Page
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Management on Shift (MOS)

13 Approved Date 10/26/87

ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

Operations Superintendent - Nuclear To:

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

Everett F. Hayes (MOS Observer) Shift: From:

□ Day⋈ Night

Plant evolutions observed A.

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

Immediate safety problems B.

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

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Management on Shift (MOS)

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MOS DAILY REPORT

E. Strengths

NONE

F. Area(s) for improvement

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Management on Shift (MOS)

Approved Date

10/26/87



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MOS DAILY REPORT

Recommendations G.

NONE

Completed By:

Everett F. Hayes

Date:

10/30/87

Reviewed By:

Operations Superintendent-Nuclear

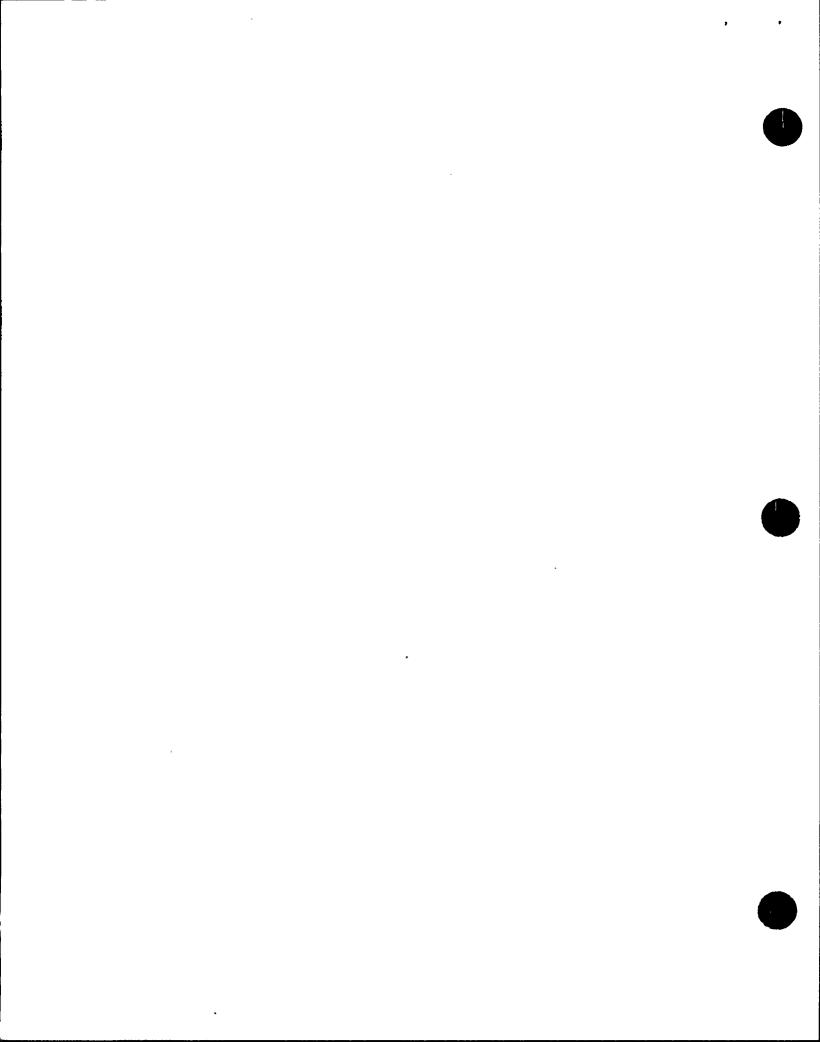
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Date:

10-30-87

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EFH/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

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

QSPDS Qualified Safety Parameter Display System

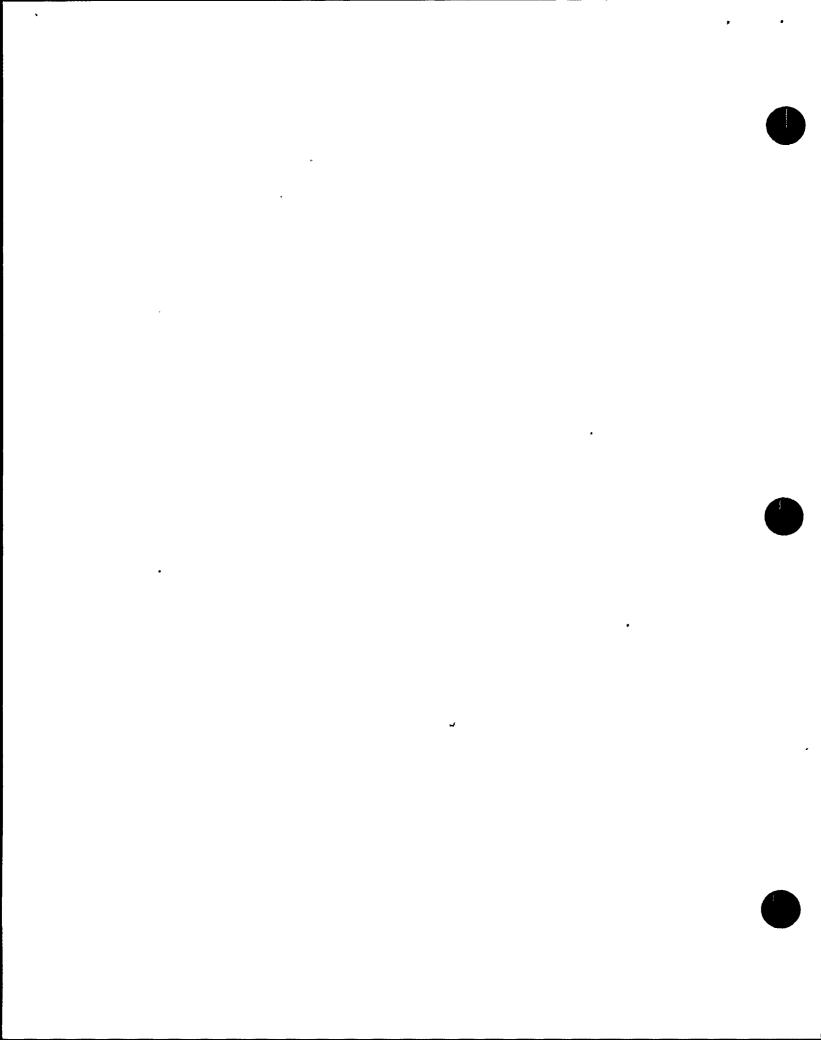
RCA Radiation Control Area
RCO Reactor Control Operator
RCS Reactor Coolant System
RHR Residual Heat Removal

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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Management on Shift (MOS)

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(Page	1	of 4)	

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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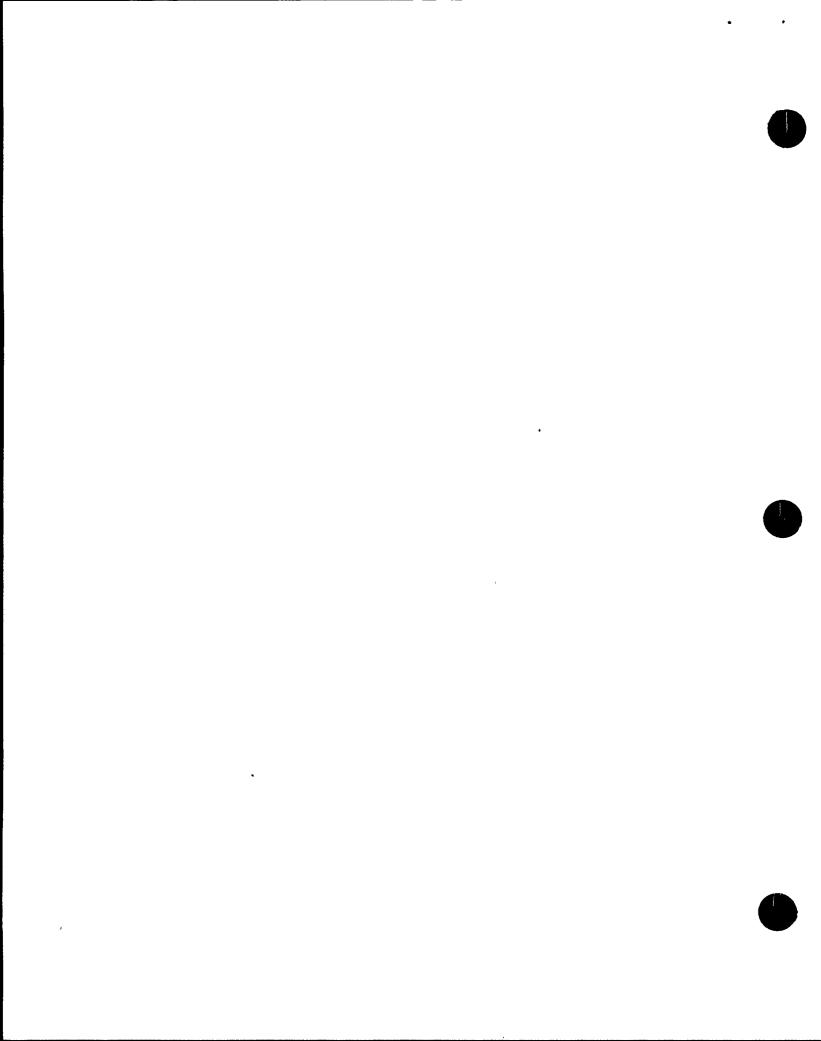


ENCLOSURE 1 (Page 2 of 4)

MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken



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ENCLOSURE 1 (Page 3 of 4)

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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Management on Shift (MOS)

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ENCLOSURE 1 (Page 4 of 4)

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

Date:

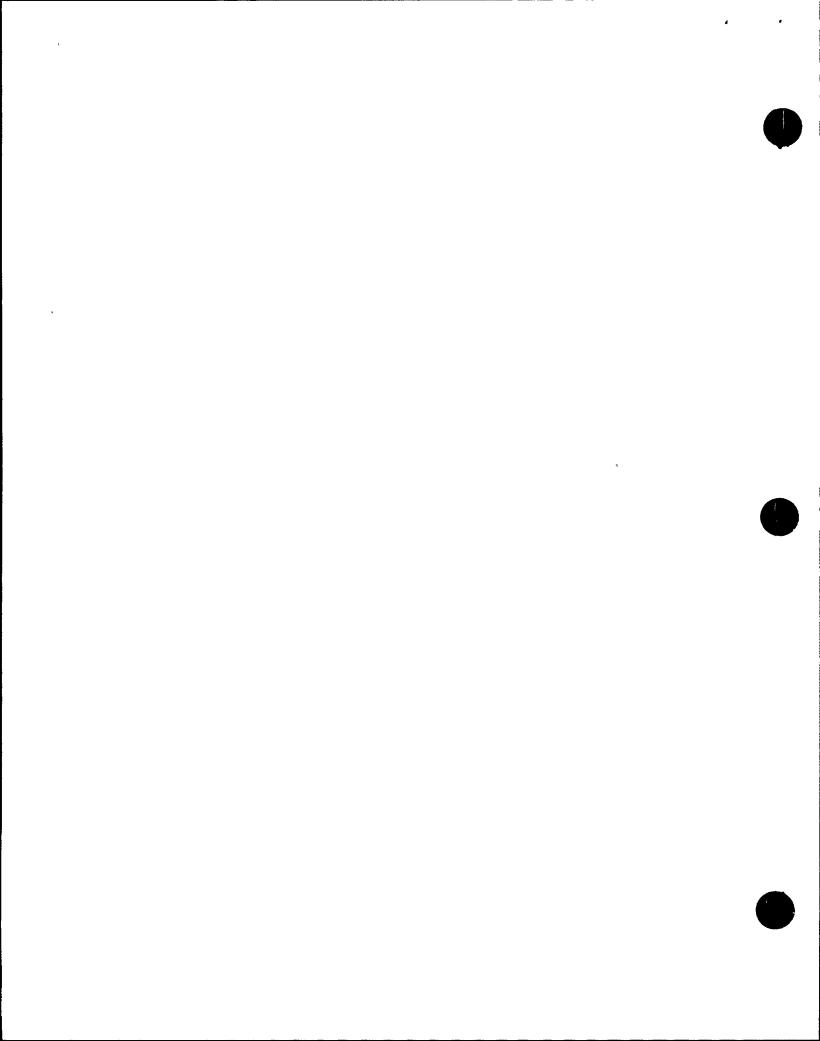
10/30/87

Reviewed By:

Operation's Superintendent-Nuclear

MOS Observer

PLF/md **★/JWG/dj/sr/dj** 10/30/87



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Management on Shift (MOS)

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ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

To: Operations Superintendent - Nuclear Date: 10/30/87

From: Russell Gouldy Shift: Day (MOS Observer) Shift: Day

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

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MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken
NONE

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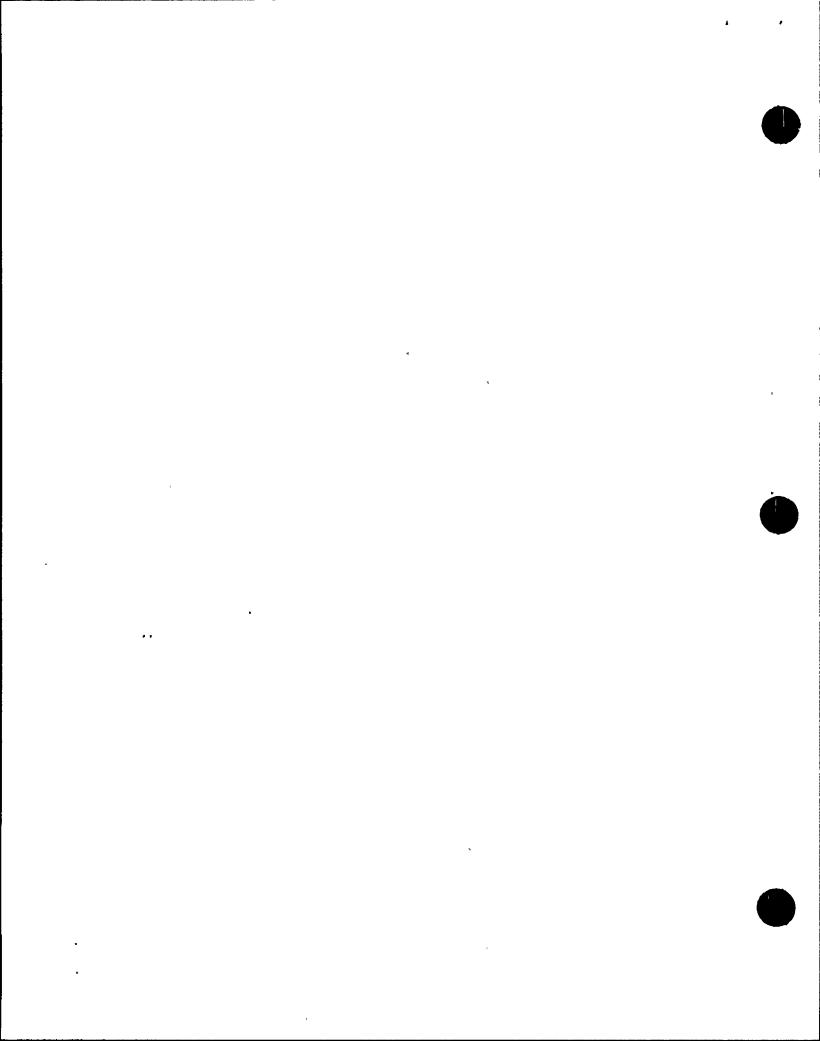
MOS DAILY REPORT

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.



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Management on Shift (MOS)

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MOS DAILY REPORT

G. Recommendations

> Requested step ladders for 4160v bus rooms. This allows them to reach potential fuses. Now they stand on buckets. TO's -

Need a tool box for turbine equipment.

Completed By:

Russell Gouldy

Date:

10/31/87

Reviewed By:

Operations Superintendent-Nuclear

MOS Obserder

Date: 11/2/87

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Management on Shift (MOS)

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ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

Го:	Operations Superintendent - Nuclear	Date:	10/30/87 10/31/87-10 FM RGN

From: Everett F. Hayes Shift: Day (MOS Observer) Night

Plant evolutions observed A.

- 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

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Management on Shift (MOS)

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

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· Management on Shift (MOS)

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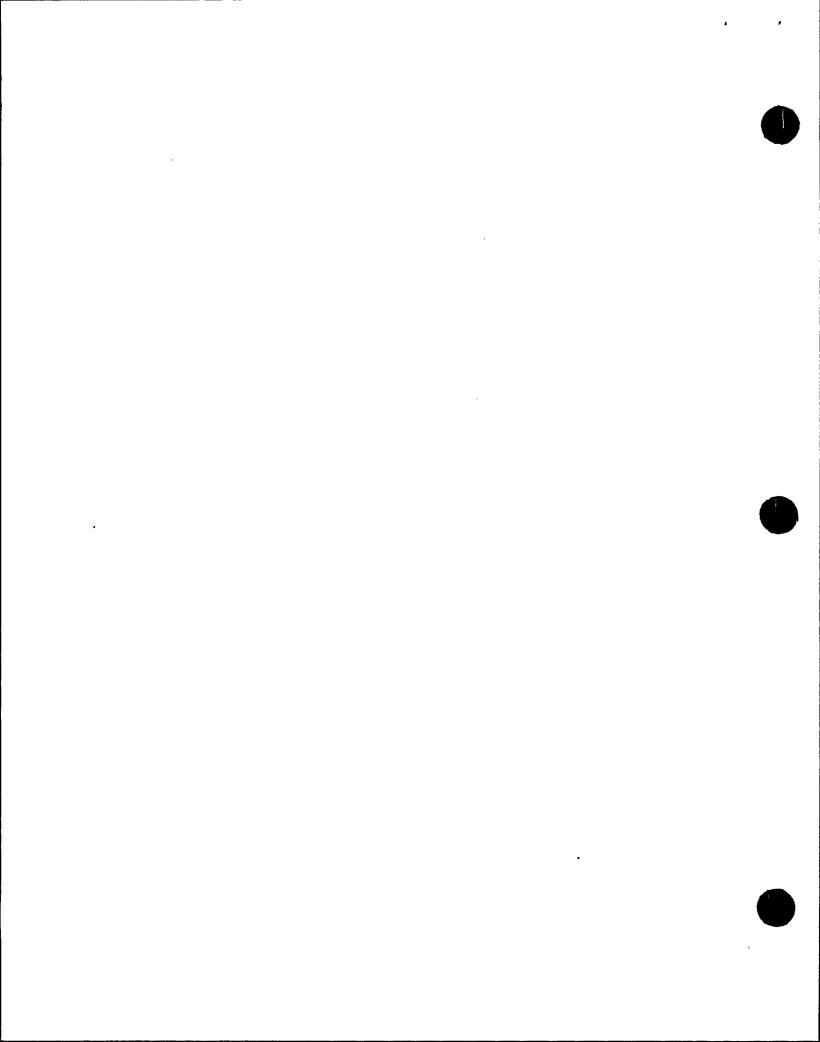
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MOS DAILY REPORT

Strengths E.

NONE

F. Area(s) for improvement



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Management on Shift (MOS)

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MOS DAILY REPORT

G. Recommendations

NONE

Completed By:

Everett F. Hayes

Reviewed By:

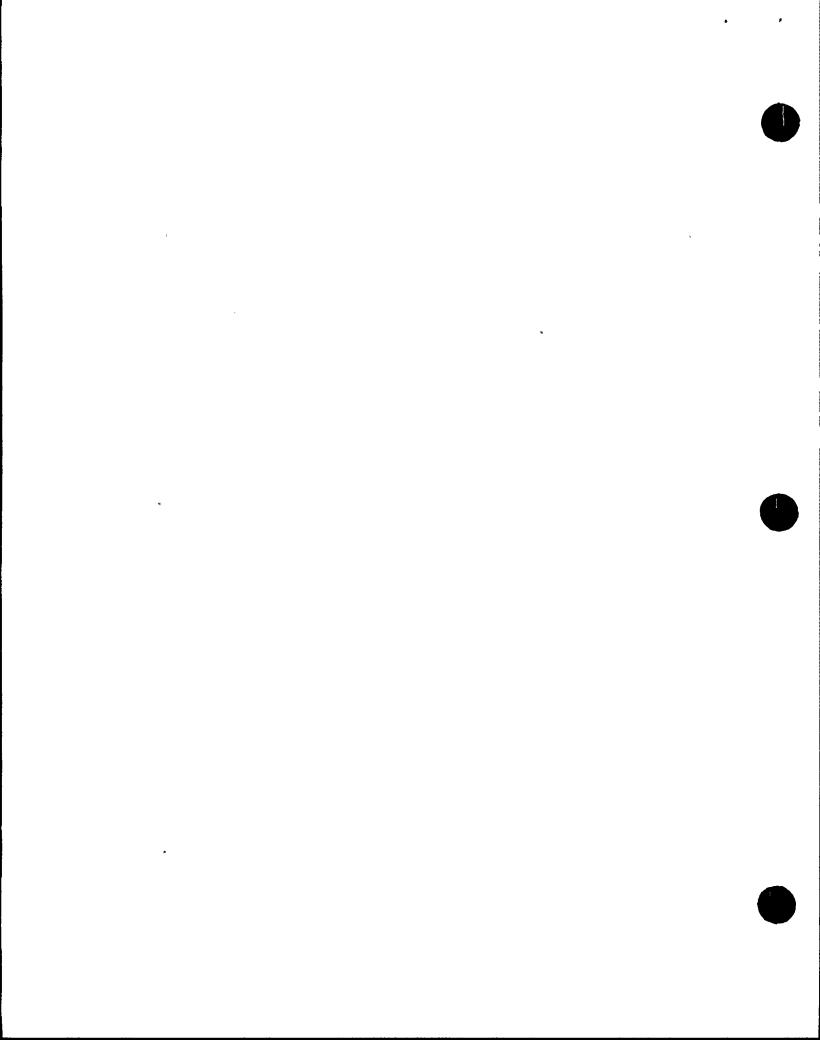
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MOS DAILY REPORT

To:	Operations Superintendent - Nuclear	Date:	10/31/87
From:	P. L. Fincher	Shift:	⊠ Day
	(MOS Observer)		□ Night

- A. Plant evolutions observed
 - Observed morning outage meeting, morning shift briefing, evening shift briefing and turnover.
 - Observed routine shift activities, logs readings, walkdowns, etc.
 - Observed post maintenance tests issuance of clearances, execution of temporary lifts.
 - Observed general shift communications.
 - Observed conduct of TP-398, Emergency Cooler Periodic test on Unit 4.
- B. Immediate safety problems

None observed

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Management on Shift (MOS)

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MOS DAILY REPORT

C. Questionable work practices
NONE OBSERVED

D. Actions taken
NONE

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Management on Shift (MOS)

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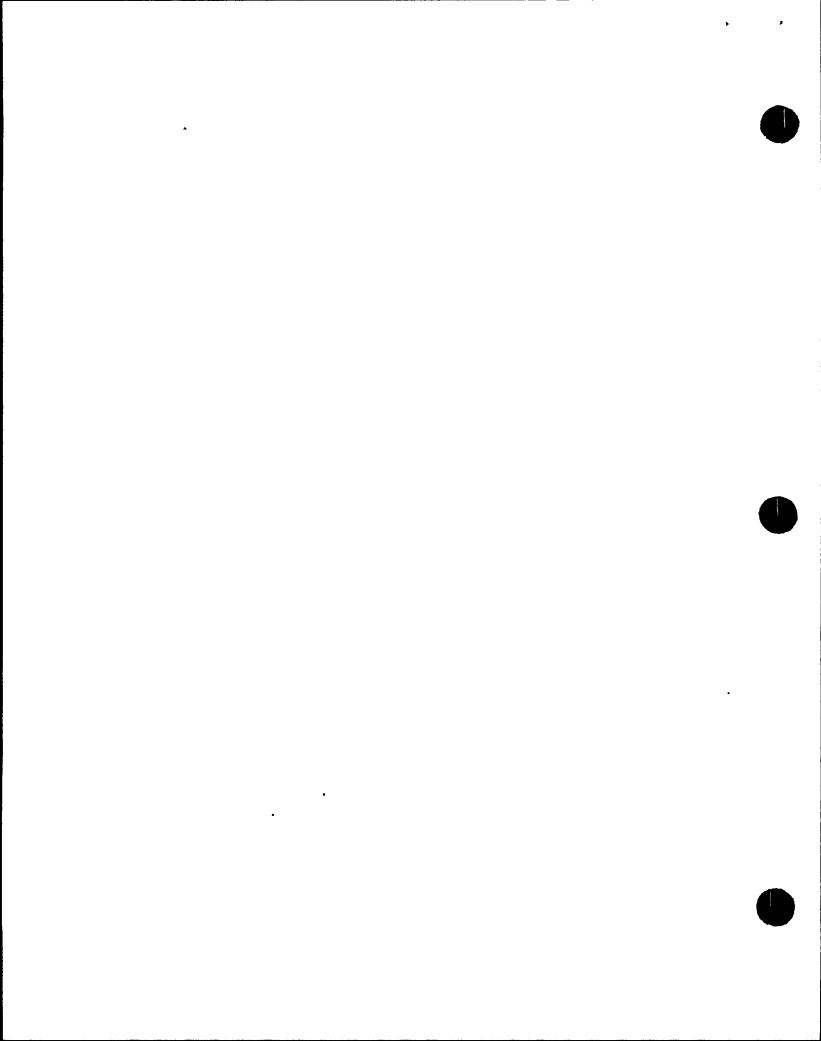
ENCLOSURE 1 (Page 3 of 4)

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



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Management on Shift (MOS)

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MOS DAILY REPORT

G. Recommendations

NONE

Completed By:

P. L. Fincher
MOS Observer

Date:

Reviewed By:

Operations Superintendent-Nuclear

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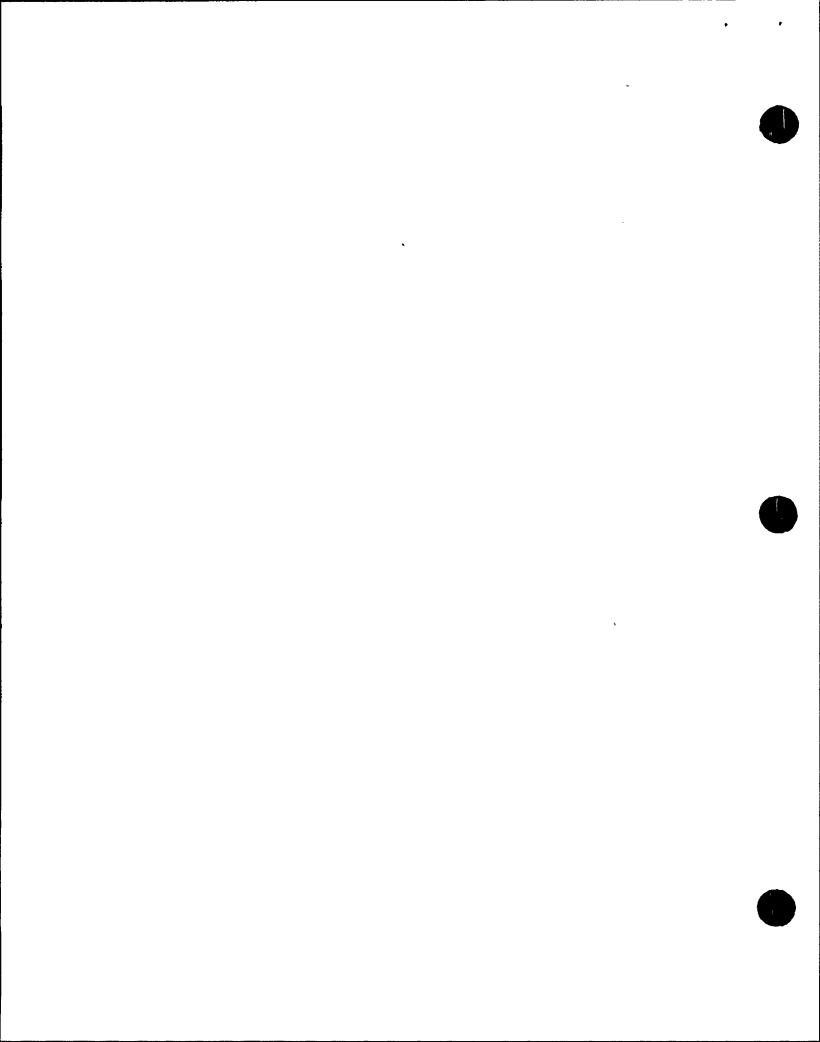
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ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

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



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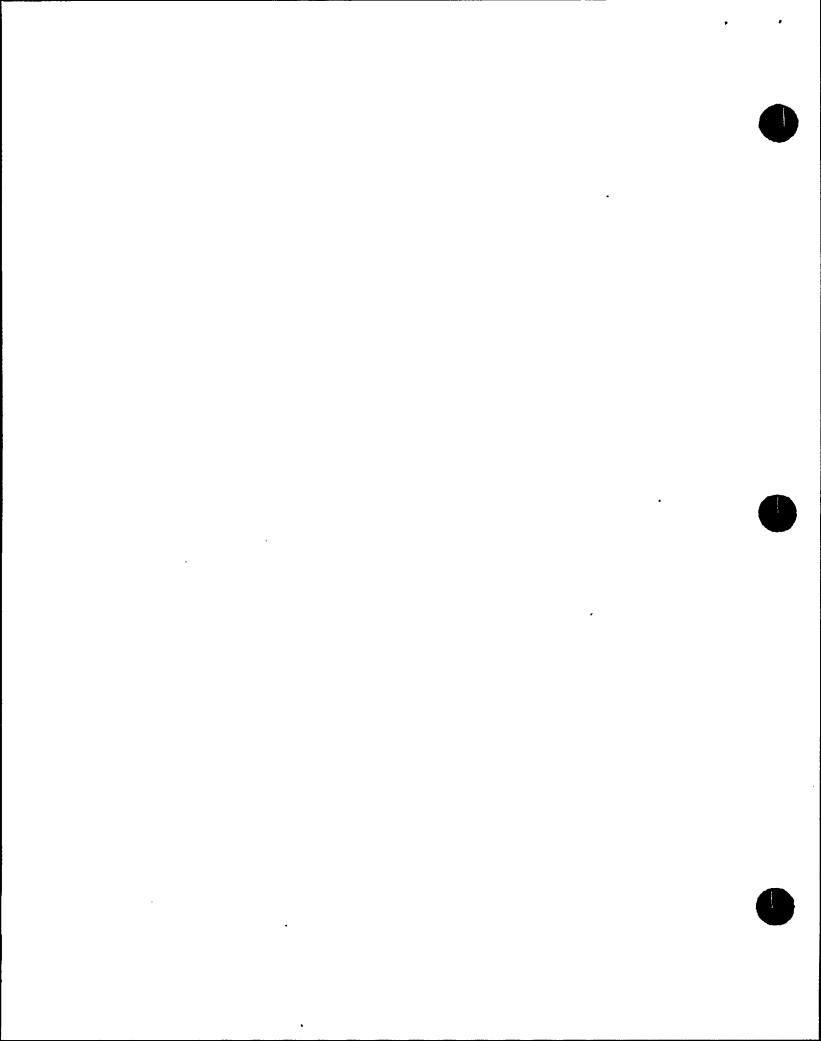
ENCLOSURE 1 (Page 2 of 4)

MOS DAILY REPORT

C. Questionable work practices
NONE

D. Actions taken

• Isolating and clearing 480 volt grounds by OPS staff.



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Management on Shift (MOS)

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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.

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Management on Shift (MOS)

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ENCLOSURE 1 (Page 4 of 4)

MOS DAILY REPORT

G. Recommendations

None of this shift.

Completed By:

Russell Gouldy MOS Observer

Reviewed By:

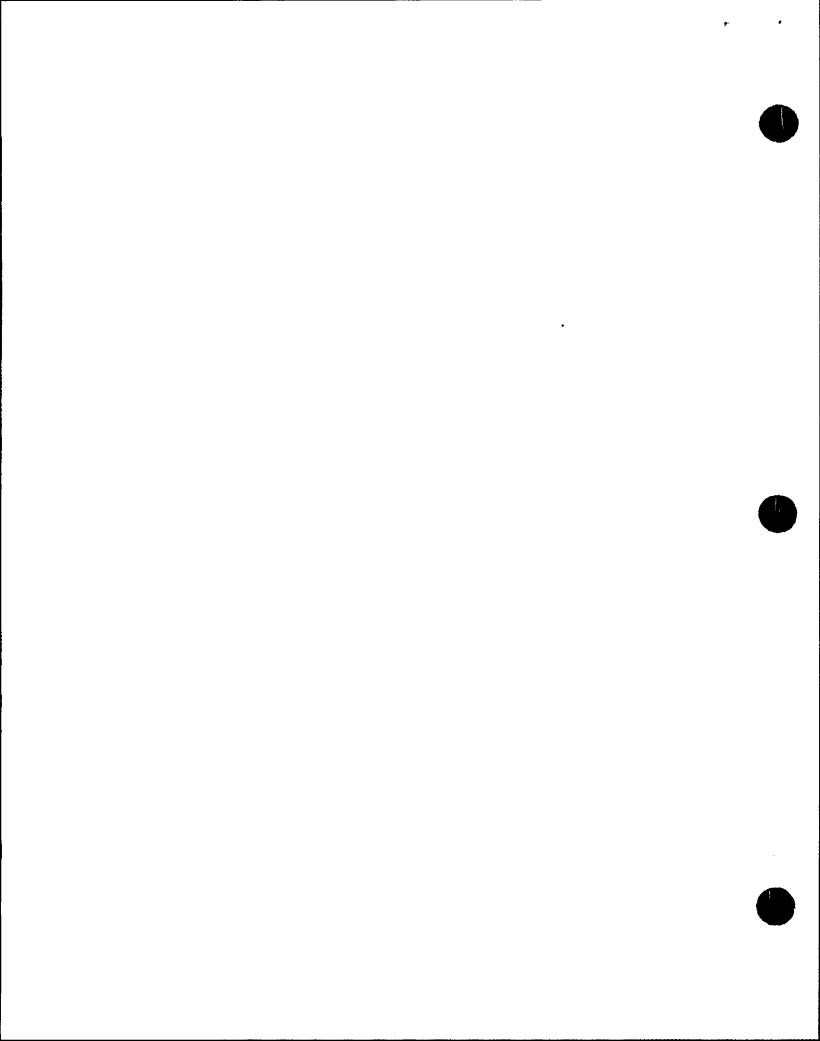
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Management on Shift (MOS)

Approved Date 10/26/87



ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

To:

Operations Superintendent - Nuclear

Date:

From:

Everett F. Hayes

(MOS Observer)

Shift:

□ Day⋈ Night

Plant evolutions observed A.

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

Immediate safety problems B.

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Management on Shift (MOS)

Approved Date 10/26/87

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

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Management on Shift (MOS)

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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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.. Management on Shift (MOS)

Approved Date 10/26/87

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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: <u>11/01/87</u>

Reviewed By:

Operations Superintendent-Nuclear

FINAL PAGE

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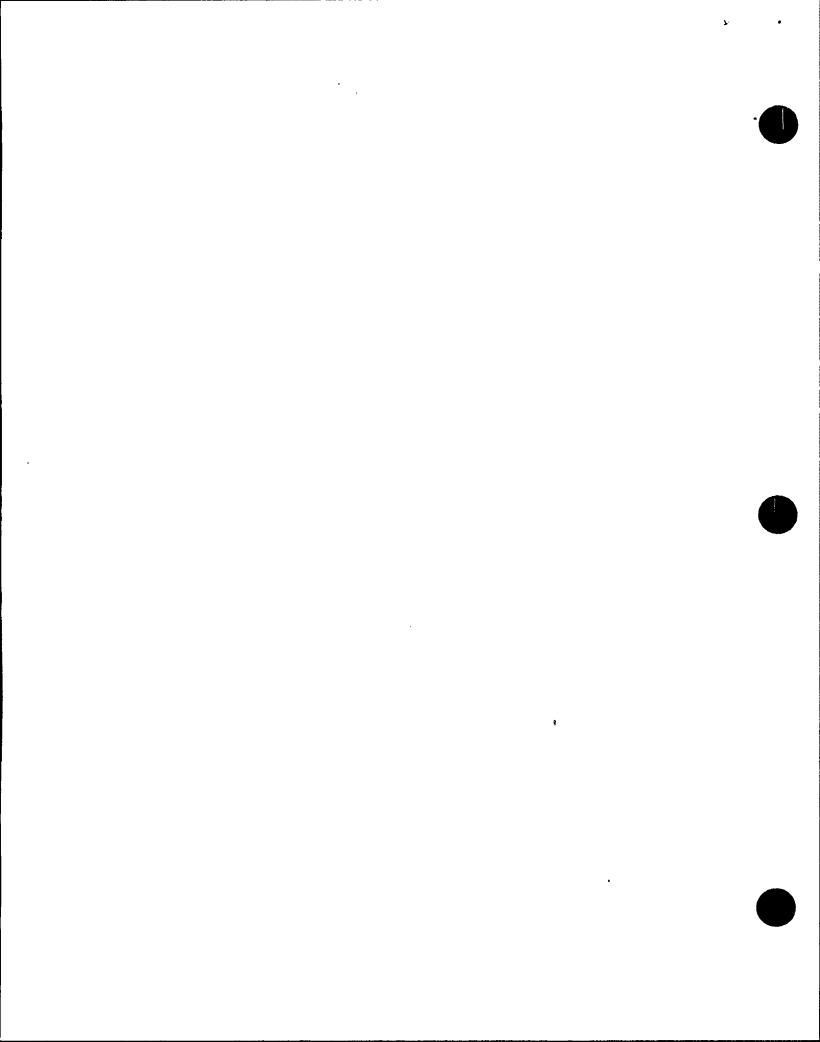
MOS DAILY REPORT

To:	Operations Superintendent - Nuclear	Date:	11/01/87
From:	P. L. Fincher	Shift:	⊠ Day
*	(MOS Observer)		☐ Night

- A. Plant evolutions observed
 - Shift briefing, shift turnover, routine shift activities.
 - Filling of 4A steam generator.
 - Conduct of TP-400, "SI Accumulator N2 Leak Rate Test".
 - Conduct of TP-398 Emergency Containment Cooler Periodic Test.

B. Immediate safety problems

None observed



Proce	dure	No.
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Management on Shift (MOS)

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ENCLOSURE 1 (Page 2 of 4)

MOS DAILY REPORT

C. Questionable work practices

NONE OBSERVED

D. Actions taken

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Management on Shift (MOS)

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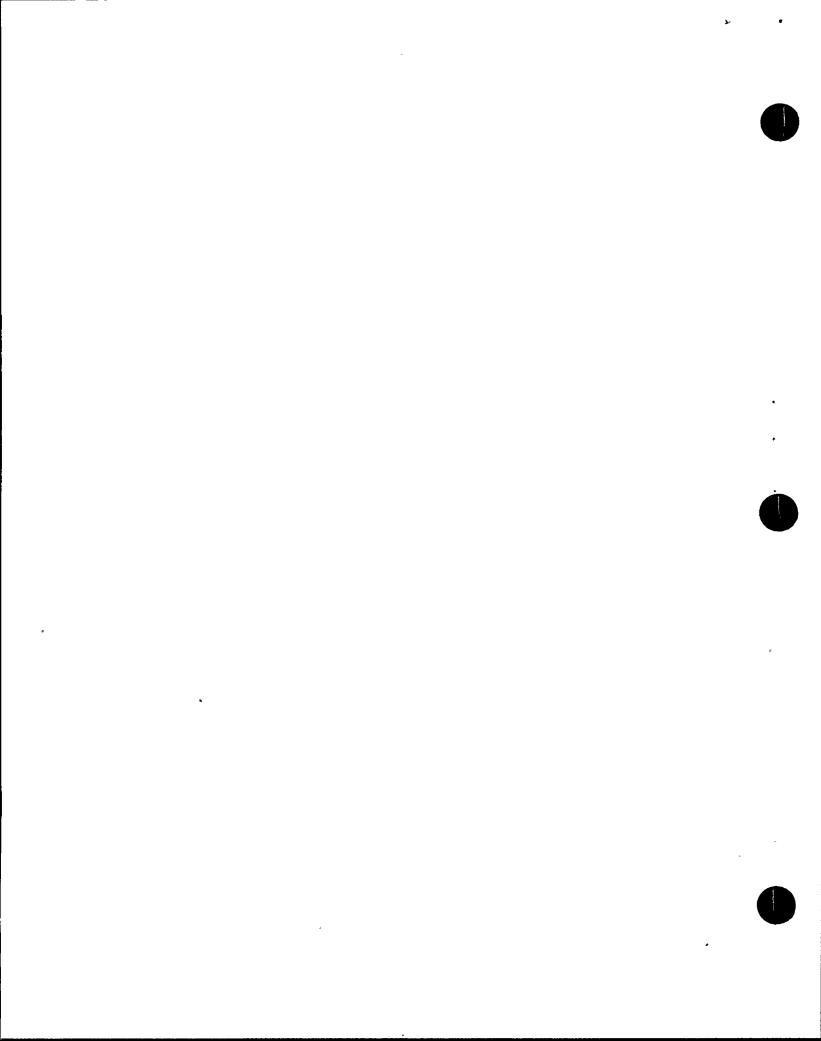
MOS DAILY REPORT

E. Strengths

NONE OBSERVED

F. Area(s) for improvement NONE

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Management on Shift (MOS)

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MOS DAILY REPORT

G. Recommendations

NONE

Completed By:

P. L. Fincher

Date:

11/01/87

Reviewed By:

Operations Superintendent-Nuclear

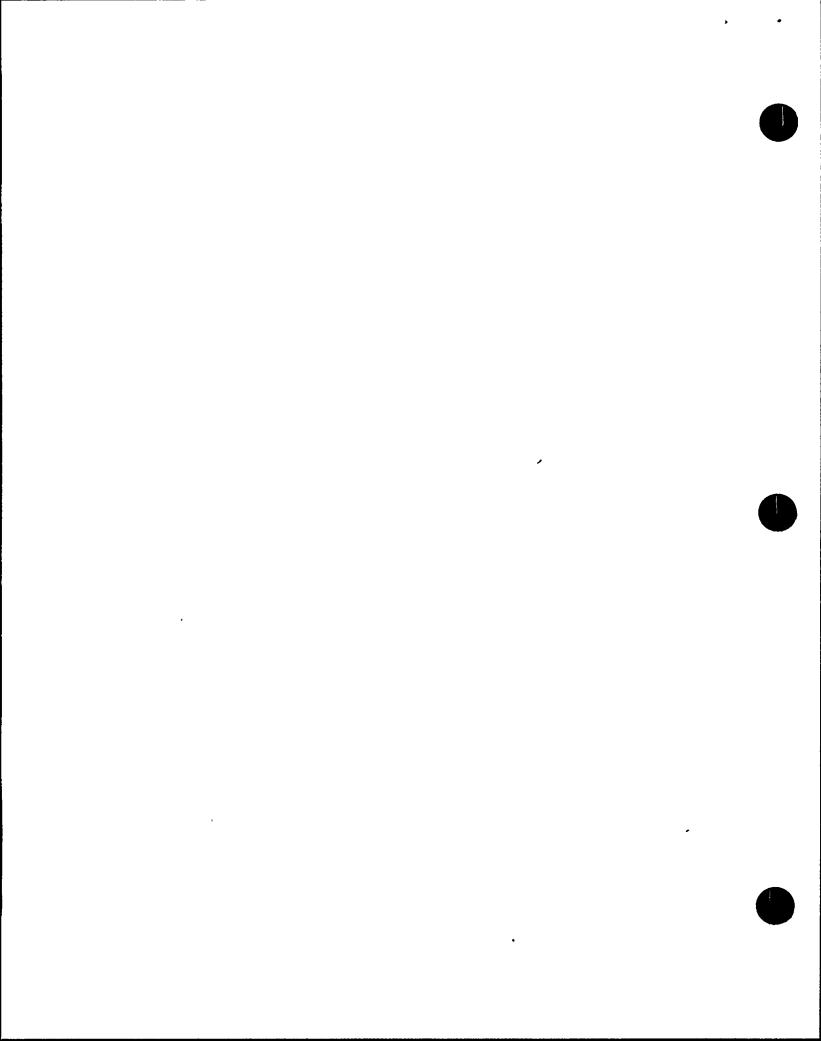
MOS Observer

Date:

e: 11/2/87

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Management on Shift (MOS)

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ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

To:	Operations Superintendent - Nuclear	Date:	11/01/87	
From:	Russell Gouldy (MOS Observer)	Shift:	□ Day ⊠ Night	

HEAVY TROPICAL RAINS FOR MOST OF THE NIGHT

- A. Plant evolutions observed
 - 2 shift meetings.
 - Identifying and clearing several 480V grounds.
 - Identification and corrective actions for several false fire alarms.
 - Cleaning of intake wells.
 - Recovery from ICW motor failure (see Strengths)
 - Recovery from Number 2 cranking diesel failure.
 - All cranking diesels out-of-services since the bus is out-of-service.
- B. Immediate safety problems

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Management on Shift (MOS)

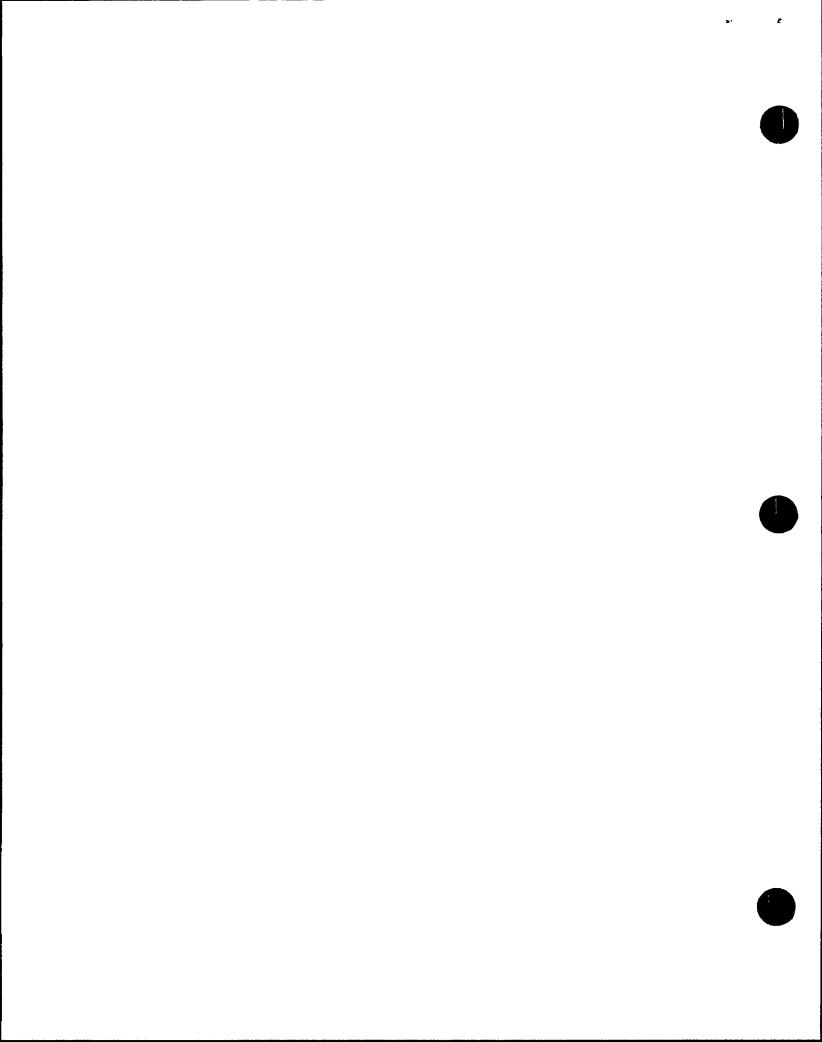
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MOS DAILY REPORT

- 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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Management on Shift (MOS)

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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 wihtout personnel injury or procedure violations.

A GOOD JOB BY ALL PERSONNEL ON BOTH SHIFTS.

Completed By:	Russell Gouldy	Date: <u>11/02/87</u>
	MOS Observer 1 4797	
Reviewed By:	Citi a. Formusles	Date: 11/2/87
iteviewed by:	Operations Superintendent- Nuclear	<i>;</i>
	Note: "Questierable work Prais	chice" at c, close not

appear questionable - currently investigating

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11/01/87

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Management on Shift (MOS)

Approved Date 10/26/87

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ENCLOSURE 1 (Page 1 of 4)

MOS DAILY REPORT

11/01/87

To:

Operations Superintendent - Nuclear

Date: $\frac{-0.7}{11/01/4}$

1/01/87 PSP So- Plan

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

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Management on Shift (MOS)

Approved Date 10/26/87

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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

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.

Area(s) for improvement F.

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.

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Management on Shift (MOS)

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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

Reviewed By:

Operations Superintendent-Nuclear

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Date: 11/02/87

Date: 11/2/87

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