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 AUTH. NAME AUTHOR AFFILIATION  
 WOODY, C. D. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 GRACE, J. N. Region 2, Ofc of the Director

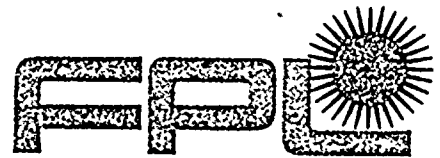
SUBJECT: Forwards summary of mgt-on-shift repts weekly rept for wk of  
 871109-16, per Commission 871019 order.

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NOVEMBER 18 1987

L-87-480

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

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

Dear Dr. Grace:

Pursuant to the Nuclear Regulatory Commission Order dated October 19, 1987, the attached summary of Management-on-Shift (MOS) reports is submitted.

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

Very truly yours,

C. O. Woody  
Executive Vice President

COW/SDF/cn  
Attachment

cc: D. G. McDonald, Project Manager, NRR, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant  
R. E. Tallon, President, FPL

8711240028 871118  
PDR ADCK 05000250  
R PDR

MOS002

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# MANAGEMENT ON SHIFT (MOS)

## WEEKLY SUMMARY REPORT

WEEK STARTING: November 9, 1987

PAGE 1 OF 2

During this period, (November 9 through November 16, 1987), four persons were on shift: J.A. Spodick, St. Lucie Plant Staff; J.A. Labarraque, Turkey Point Technical Department Supervisor; P.L. Walker, Westinghouse Electric Corporation, and L.C. Huenniger, Turkey Point Start Up Department Superintendent.

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

During this period, no safety problems or questionable work practices were noted.

One area of concern identified was a reduction in the boron concentration of the reactor coolant which was discovered on November 13, 1987 on Unit 3. The boron concentration reported to the control room was close to the minimum shutdown margin curve in the plant curve book. Upon discovery, boration was begun and the shutdown margin was calculated. The calculated margin was 5.353%, which was above the Technical Specification requirement of 1%. Discussions with the Reactor Engineering Department also indicated that the minimum shutdown curve has a built-in margin of 50 ppm. The reduction occurred during the fill and vent evolution recently completed on Unit 3. This event will be reviewed to to determine appropriate corrective actions.

Several areas for improvement were noted. These include the following:

- 1) Operations/Maintenance planning and schedule interface
- 2) Coordination of backshift maintenance and backshift maintenance support
- 3) Maintenance turnovers
- 4) Multiple licensing documents being used by Operations
- 5) PWO Backlog
- 6) Specification for test equipment in Startup testing procedures.

Each of these improvement areas are being reviewed and addressed by the appropriate departments.

During the week, several operating strengths were reaffirmed: shift briefings, shift turnover and general procedure compliance.

ATTACHMENT: MOS DAILY REPORTS

8711240028

# MANAGEMENT ON SHIFT (MOS)

## WEEKLY SUMMARY REPORT

WEEK STARTING: November 9, 1987

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In order to effectively manage the Management on Shift (MOS) program and ensure that concerns and areas for improvement are addressed, an individual has been designated to oversee the administrative portion of the MOS program. In addition, the daily MOS reports are reviewed by the Turkey Point Management team each working day and actions items from the MOS reports are assigned to the responsible individual(s). These action items are being tracked by our corporate tracking system, CTRAC, until completion.

ATTACHMENT: MOS DAILY REPORTS



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<b>0-ADM-019</b>	<b>Management on Shift (MOS)</b>	Approved Date <b>10/26/87</b>

**ENCLOSURE 1**

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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11-09-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

Plant operations in Mode 5 to support maintenance.

B. Immediate safety problems

None observed

JAS/md  
★/JWG/dj/sr/dj

11/09/87





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MOS DAILY REPORT

C. Questionable work practices

None observed

D. Actions taken

N/A

JAS/md  
★/JWG/dj/sr/dj

11/09/87



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**MOS DAILY REPORT**

**E. Strengths**

**Shift Briefings:**

I observed the initial shift briefings for both the day shift and the peak shift. Both briefings involved licensed operators, non-licensed operators and maintenance personnel. The briefings, in both cases, were conducted in a concise and competent manner.

**F. Area(s) for improvement**

None observed

JAS/md  
★/JWG/dj/sr/dj

**11/09/87**



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**MOS DAILY REPORT**

G. Recommendations  
None

Completed By: Jeff A. Spodick  
MOS Observer

Date: 11-09-87

Reviewed By: *Alan Chandler*  
Operations Superintendent- Nuclear

Date: 11-10-87

*JAS* 11/10/87 *AS* 11/10/87

**FINAL PAGE**

JAS/md  
★/JWG/dj/sr/dj

11/09/87

**Management-on-Shift (MOS)**  
**ACRONYMS**

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
ASP	Administrative Site Procedure
CCW	Component Cooling Water
DG	Diesel Generator
DC	Direct Current
ΔP or DP	Differential Pressure
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
FCV	Flow Control Valve
FPL	Florida Power and Light Company
FSAR	Final Safety Analysis Report
GEMS	Generating Equipment Management Systems
HHSI	High Head Safety Injection
HX	Heat Exchanger
LAW	In Accordance With
ICW	Intake Cooling Water
ICWP	Intake Cooling Water Pump
IST	Inservice Testing
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
OOS	Out-of-Service
OTSC	On The Spot Change

Management-on-Shift (MOS)

ACRONYMS

Continued

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
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
SAS	Safety Assessment System
S/G	Steam Generator
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
STA	Shift Technical Advisor
TSA	Temporary System Alteration
TP	Temporary Procedure
W	Westinghouse Corporation





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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11/09-10/87

From: J. A. Labarraque  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Beginning of shift meeting.
- End of shift turnover.
- Emergency diesel troubleshooting sequence.
- Handling of watch engineer sickness event.
- Handling of emergency diesel surveillance investigation.

B. Immediate safety problems

None

JAL/md  
★/JWG/dj/st/dj

11/09-10/87



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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

JAL/md  
★/JWG/dj/sr/dj

11/09-10/87

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**MOS DAILY REPORT**

**E. Strengths**

- Operations personnel strict interpretation of procedures requirement.
- The use of OTSC for clarification of steps.

**F. Area(s) for improvement**

Maintenance takes considerable time in between troubleshooting steps due to interface with GEMS planners.



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**MOS DAILY REPORT**

**G. Recommendations**

Investigate potential program enhancements or shift support to minimize waiting time between maintenance steps.

Completed By: J. A. Labarraque  
MOS Observer

Date: 11-10-87

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

Date: 11-10-87

*[Handwritten initials]*  
11/10/87 11/10/87

**FINAL PAGE**

JAI/md  
★/JWG/dj/sr/dj

11/09-10/87



0-ADM-019

Management on Shift (MOS)

Approved Date

10/26/87

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## MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11/09-10/87From: Peter L. Walker - (W)  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- 2230 shift debriefing
- 2300 shift turnover
- 2315 shift planning
- Maintenance procedure P/O OSP-060.1 Damper Testing
- Diesel/Generator A troubleshooting
- Unit S/G level adjustment.
- Medical problem, Watch Engineer Fernandez got sick on shift. EP-20101 was utilized to deal with the problem. Offsite ambulance required. Fire brigade manning was revised. Singer assumed Watch Engineer responsibilities.

## B. Immediate safety problems

None





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MOS DAILY REPORT

C. Questionable work practices  
NONE

D. Actions taken  
NONE

PLW/md  
★/JWG/dj/sr/dj

11/09-10/87



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MOS DAILY REPORT

E. Strengths

Medical problem was handled very smoothly. Little or no disruption of shift coverage. No impact on safety. Shimkus' shift debriefing was good. Crisp rundown on events and tasks, plus a little pep talk.

F. Area(s) for improvement

Unauthorized noises over the page system should be eliminated. It got a little noisy around 4:00 A.M.

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## MOS DAILY REPORT

## G. Recommendations

A relatively minor problem with the fuel oil prime pump on diesel generator A has kept that safety related component out of service for 1 ½ days, and is still not resolved. While the unit is probably capable of performing its function, low pressure on the pump is keeping the unit down. The basis for the requirement should be ascertained, vendor technical assistance should be readily obtainable, and the problem should be resolved in a timely fashion.

Completed By: Peter L. Walker  
MOS Observer

Date: 11-10-87

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

Date: 11-10-87

*[Signature]* 11/10/87

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PLW/md

★/JWG/dj/sr/dj

11/09-10/87



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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11/10/87

From: Jeff Spodick  
(MOS Observer)

Shift: ☒ Day  
☐ Night

**A. Plant evolutions observed**

Mode 5 control room evolutions to facilitate outage work.

Observed the control room response to the following events/conditions:

1. ICW leak at 4C CCW heat exchanger.
2. Shift review of the upcoming accumulator test.
3. Control room interface with trouble shooting the A Diesel Generator Fuel Oil Priming Pump.

**B. Immediate safety problems**

None Observed

JS/ab

★/JWG/dj/ur/dj

11/10/87





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MOS DAILY REPORT

C. Questionable work practices

None Observed

D. Actions taken

N/A

JS/ab

★/JWG/dj/sr/dj

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MOS DAILY REPORT

E. Strengths

The on shift licensed operators determined that the initial conditions for the accumulator test would require Unit 4 to draw a pressurizer bubble. The Plant Supervisor - Nuclear, Assistant Plant Supervisor - Nuclear, and the Nuclear Watch Engineer, agreed that the most conservative method of performing the test would be as the procedure was originally written, even though a schedule delay might be incurred.

F. Area(s) for improvement

Planning and scheduling could be improved in the area of operations/maintenance interface. For example, when investigating the Accumulator Test procedure, the pressurizer water temperature and vapor temperature RTD's were found to be inoperable (PWO written to fix RTD grounds).

JS/ab

★/JWG/dj/sr/dj

11/10/87



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## MOS DAILY REPORT

## G. Recommendations

Continuity of operations might be improved by having a senior member of the operations staff serve as the operations interface for maintenance and outage planning. He should be relieved of shift watch standing duties during this time. St. Lucie has practiced this policy for some time and it seems to be effective.

Completed By:

Jeff Spodick

MOS Observer

Date: 11/10/87

Reviewed By:

Operations Superintendent - Nuclear

Date: 11-11-87

JS/ab

FINAL PAGE

11/10/87

★/JWG/dj/sr/dj



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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11/10-11/87

From: J. A. Labarraque  
(MOS Observer)

Shift: ☐ Day  
☒ Night

**A. Plant evolutions observed**

- Observed end of shift turnover.
- Observed beginning of shift turnover.
- Observed diesel priming pump investigation.
- Observed battery test evolution.

**B. Immediate safety problems**

None

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MOS DAILY REPORT

C. Questionable work practices

None

D. Actions taken

None

JAL/ab

★/JWG/dj/sr/dj

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MOS DAILY REPORT

E. Strengths

The operation shift turnover was very good. The two Plant Supervisors-Nuclear and ANPO went over every issue and equipment being worked. The incoming and outgoing shift walked the board together and discussed alarms and indicators as they went along.

F. Area(s) for improvement

Maintenance support during backshift could be increased during an outage time.

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MOS DAILY REPORT

G. Recommendations

A GEMS planner for the backshift should be evaluated.

Completed By:

J. A. Labarraque

MOS Observer

Date: 11/11/87

Reviewed By:

*John Handoff*  
Operations Superintendent - Nuclear

Date: 11-11-87

*JAL*  
11/11/87

JAL/ab

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★/JWG/dj/sr/dj



Management-on-Shift (MOS)  
ACRONYMS

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
ASP	Administrative Site Procedure
CCW	Component Cooling Water
DG	Diesel Generator
DC	Direct Current
ΔP or DP	Differential Pressure
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
FCV	Flow Control Valve
FPL	Florida Power and Light Company
FSAR	Final Safety Analysis Report
GEMS	Generating Equipment Management Systems
HHSI	High Head Safety Injection
HX	Heat Exchanger
IAW	In Accordance With
ICW	Intake Cooling Water
ICWP	Intake Cooling Water Pump
IST	Inservice Testing
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
OOS	Out-of-Service
OTSC	On The Spot Change



Management-on-Shift (MOS)

ACRONYMS

Continued

PORV	Power Operated Relief Valve
PRZ	<del>Pressurizer</del>
PUP	<del>Procedure Upgrade Program</del>
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
RCA	Radiation Control Area
RCO	Reactor Control Operator
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RV	Reactor Vessel
SAS	Safety Assessment System
S/G	Steam Generator
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
STA	Shift Technical Advisor
TSA	Temporary System Alteration
TP	Temporary Procedure
W	Westinghouse Corporation

\* RTD      Resistance Temperature Device







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MOS DAILY REPORT

E. Strengths

None to emphasize - Diesel generator received the attention it deserved.

F. Area(s) for improvement

None

PLW/md  
★/JWG/dj/sr/dj

11/10-11/87  
(Correction)

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MOS DAILY REPORT

C. Questionable work practices

None

D. Actions taken

None

PLW/ab

★/JWG/dj/sr/dj

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MOS DAILY REPORT

G. Recommendations

None

Completed By: Peter L. Walker  
MOS Observer

Date: 11/11/87

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

Date: 11-11-87

*[Signature]*  
11/14/87

FINAL PAGE

PLW/ab  
★/JWG/dj/sr/dj

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11-11-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

Plant operations in Mode 5

- Containment emergency ventilation test.
- PS N tour of reactor auxiliary building.
- A PSN notification of a significant event.

B. Immediate safety problems

None observed

JAS/md  
★/JWG/dj/sr/dj

11/11/87



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MOS DAILY REPORT

C. Questionable work practices

None observed

D. Actions taken

N/A

JAS/md  
★/JWG/dj/sr/dj

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**MOS DAILY REPORT**

**E. Strengths**

A PSN notified all required onsite and offsite personnel promptly after being notified by the security force of a possible security violation.

**F. Area(s) for improvement**

**Tracking of equipment out of service:**

Presently it is the responsibility of the Reactor Operators to maintain the Equipment Out of Service Log. This log tracks safety related equipment and other important systems, IAW procedure guidance. It appears that too much equipment is being entered in the log.



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**MOS DAILY REPORT**

**G. Recommendations**

Re-analyze the necessity of entering non-essential OOS equipment in the Equipment Out of Service Log.

Change the responsibility for Equipment Out of Service Log entries to the Assistant PSN from the Reactor Operator.

Completed By: Jeff A. Spodick  
*MOS Observer*

Date: 11-11-87

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

Date: 11-12-87

*7/128 11-12-87*

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JAS/md  
★/JWG/dj/sr/dj

**11/11/87**

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11/11-12/87

From: J. A. Labarraque  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Beginning of shift meeting.
- End of shift turnover.
- ICW check valve testing..
- Review of post maintenance requirements for emergency diesel.
- Routine work discussion among Operating personnel.

B. Immediate safety problems

None

JAL/md  
★/JWG/dj/sr/dj

11/11-12/87



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MOS DAILY REPORT

C. Questionable work practices  
NONE

D. Actions taken  
NONE

JAL/md  
★/JWG/dj/sr/dj

11/11-12/87

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**MOS DAILY REPORT**

**E. Strengths**

- 1) OPS shift turnover process and communication with operating crew was excellent. Operating crew was very receptive to recommendation for standardization.
- 2) PSN discussed the diesel post maintenance requirements with his crew and proper management personnel. The desire to do it right the first time was present at all times.
- 3) During shift turnover the PSN discussed the QIP process and how it could be used by these operators during their normal duties (he used the charging pump relief valve issue as an example).
- 4) Good communication during the diesel test. Every person knew what was expected. System Engineer was called in to witness the test.

**F. Area(s) for improvement**

- 1) The peak and midnight I&C work crew had very little information on work in progress or completed during the day shift.
- 2) The Control Room (two) florescent lights need replacement and the ceiling needs to be cleaned (very dusty).
- 3) Expedite repair of Control Room door. It was not clear who was working on the door.

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MOS DAILY REPORT

G. Recommendations

- 1) Enhance communication (oral and written) between the day work crew and the peak shift. Specifically in the I&C discipline.
- 2) Establish periodic housekeeping activities for areas in the Control Room (panels, ceiling, racks, excess packages, etc.).
- 33) Handle the Control Room door work ticket similar to a safety ticket. Provide information on why it is not being worked to enhance communications.

Completed By: J. A. Labarrague  
MOS Observer

Date: 11-12-87

Reviewed By: *Richard L. Mank*  
Operations Superintendent - Nuclear

Date: 11-12-87

*PRD*  
11-12-87

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JAI./md  
★/JWG/dj/sr/dj

11/11-12/87





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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11/11-12/87

From: Peter L. Walker - (W)  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Charging/return to service of 4A battery and its charger.
- Return of 4A CCW heat exchanger to service.
- Discovery of CCW heat exchanger (Unit 3).
- Discovery of RCS leak via 4A charging pump (CP) seal.
- Upgrade of diesel/generator A test from 1 hour to 8 hour reliability run. (Reason: Major rework of fuel supply system).
- Start and subsequent failure of A diesel generator. (Air system testing completed)
- Shutdown of 4A charging pump (CP) for maintenance.

B. Immediate safety problems

None

PI.W/md  
★/JWG/dj/sr/dj

11/11-12/87

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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

PSN Shimkus did a very good job of forming and heading up a team to evaluate upgrading the diesel generator A testing requirements. The goal was to get D/G A back in service, and the team successfully resisted the temptation to use the less stringent test and decided to perform the more extensive test. All cognizant (and responsible) parties were contacted in an expeditious fashion, and all concurred with the decision after a lengthy (but necessary) discussion. The decision was conservative and proper, due to the many connections and components involved in the fuel system testing and rework. During all of this, the plant was safely monitored and other tasks were performed.

F. Area(s) for improvement

None



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MOS DAILY REPORT

G. Recommendations

None

Completed By: Peter L. Walker  
MOS Observer

Date: 11-12-87

Reviewed By: *Richard J. Woods*  
Operations Superintendent - Nuclear

Date: 11-12-87

*7/11/12/87*

FINAL PAGE

PL.W/md  
★/JWG/dj/sr/dj

11/11-12/87

**Management-on-Shift (MOS)**  
**ACRONYMS**

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
ASP	Administrative Site Procedure
CCW	Component Cooling Water
CP	Charging Pump
DG	Diesel Generator
DC	Direct Current
ΔP or DP	Differential Pressure
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
FCV	Flow Control Valve
FPL	Florida Power and Light Company
FSAR	Final Safety Analysis Report
GEMS	Generating Equipment Management Systems
HHSI	High Head Safety Injection
HX	Heat Exchanger
LAW	In Accordance With
ICW	Intake Cooling Water
ICWP	Intake Cooling Water Pump
IST	Inservice Testing
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
OOS	Out-of-Service
OTSC	On The Spot Change



Management-on-Shift (MOS)

ACRONYMS

Continued

PORV	Power Operated Relief Valve
PRZ	<del>Pressurizer</del>
PUP	Procedure Upgrade Program
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
RCA	Radiation Control Area
RCO	Reactor Control Operator
RCP	Reactor Coolant Pump
RCS	Reactor Coolant System
RHR	Residual Heat Removal
RTD	Resistance Temperature Device
RV	Reactor Vessel
SAS	Safety Assessment System
S/G	Steam Generator
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
STA	Shift Technical Advisor
TSA	Temporary System Alteration
TP	Temporary Procedure
W	Westinghouse Corporation



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Management on Shift (MOS)

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11-12-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

Plant operations in Mode 5

- Start of fill and vent at Unit 3.
- Diesel troubleshooting (A diesel).

B. Immediate safety problems

None observed

JAS/md  
★/JWG/dj/sr/dj

11/12/87

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MOS DAILY REPORT

C. Questionable work practices

None observed

D. Actions taken

N/A

JAS/md  
★JWG/dj/sr/dj

11/12/87

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MOS DAILY REPORT

E. Strengths

The initial shift briefing by the PSN/Assistant PSN/NWE was very professional. Very useful was the PSN's attempt to prioritize the evening's work activities to maximize his shift's resources.

F. Area(s) for improvement

Procedures:

Verbatim compliance is causing unnecessary confusion and delays. The concept of verbatim procedural compliance should be rethought. There are many instances where strict verbatim compliance is not necessary. There are cases where a specific procedural step is not applicable to the present plant configuration. The PSN or Assistant PSN should be able to N/A that step of the procedure.



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MOS DAILY REPORT

G. Recommendations

Re-assess the necessity of requiring a strict verbatim compliance procedure requirement. The literal interpretation of verbatim compliance seems to be causing significant operator frustration.

Completed By: Jeff A. Spodick  
MOS Observer

Date: 11-12-87

Reviewed By: *Alan Chenille*  
Operations Superintendent - Nuclear

Date: 11-13-87

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★/JWG/dj/sr/dj

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

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★/JWG/dj/sr/dj

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ADM-019

Management on Shift (MOS)

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## MOS DAILY REPORT

## E. Strengths

- 1) Noticed improvement in Control Room professionalism since last Management on Shift days 9/18 - 9/23.
- 2) Shift meetings are in more depth with shift people giving answers to questions.

## F. Area(s) for improvement

A boron sample of 1470 PPM was reported by the Lab. The Unit 3 RCO began boron addition and reported condition to APSN as minimum cold shutdown boron should have been 1480 PPM. Shutdown margin calculation was performed and found to be 5.35%.

Operators should anticipate evolutions that reduces boron concentration and not run so close to the minimum margin.

LCH/md  
★/JWG/dj/sr/dj

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MOS DAILY REPORT

G. Recommendations

Numerous activities of importance involving both units were conducted during the shift. Priorities were set by the PSN, and followed by shift personnel. Considerable work was left undone due to manpower limitations. The Nuclear Operations classification appears to need additional personnel.

Completed By: L. C. Huenniger  
MOS Observer

Date: 11-13-87

Reviewed By: *L. C. Huenniger*  
Operations Superintendent - Nuclear

Date: 11-13-87

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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11/12-13/87

From: Peter L. Walker - (W)  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Plant tour with Shimkus.
- Successful 8 hour diesel generator A operational test.
- Fill and vent of Unit 3 RCS.
- Successful 10 minute run of 3A/3B/3C reactor coolant pumps.
- Boration of Unit 3 RCS to adjust boric acid concentration.
- Back to pre-fill and vent concentration.

B. Immediate safety problems

None

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★/JWG/dj/sr/dj

11/12-13/87





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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

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★/JWG/dj/sr/dj

11/12-13/87



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MOS DAILY REPORT

E. Strengths

Upon discovery of reduced boric acid concentration, APSN-Murphy took prudent and immediate actions to rectify the situation.

The diesel generator test ran well.

F. Area(s) for improvement

I observed an approach to loss of shutdown margin due to a boric acid concentration reduction. At 0130, a chemistry report was received showing 1470 PPM, which is almost exactly on the minimum boron concentration curve (Boron Change Table, Figure 2). Boric acid concentration has been ~ 1520 PPM, prior to the fill and vent evolution performed on November 12, 1987. An examination of the traces on the makeup flow recorder showed ~ 96 GPM water and 6 GPM boric acid, added to make up for the pressurizer fill operation. These values will result in a boric acid concentration of ~ 1300 PPM, lower than the 1520 PPM in the system, and resulting in a dilution of the system. The boric acid flow meter has an existing PWO, so it is known to have problems. APSN Murphy verified low concentration condition, evaluated shutdown margin (5.353% S/D), checked with Reactor Engineering and discovered 50 PPM margin in S/D boron concentration curve, and decided it non-reportable.

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**MOS DAILY REPORT**

**G. Recommendations**

**Boric Acid Concentration Reduction:**

- 1) Repair or modify makeup flow indications to enable CO's to accurately control boric acid concentration.
- 2) After any evolution which requires significant quantities of makeup to the RCS, boron concentration should be checked by analysis of loop samples.

Completed By: Peter L. Walker  
MOS Observer

Date: 11-13-87

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

Date: 11-13-87

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**11/12-13/87**



**Management-on-Shift (MOS)**  
**ACRONYMS**

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
ASP	Administrative Site Procedure
CCW	Component Cooling Water
CP	Charging Pump
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DC	Direct Current
ΔP or DP	Differential Pressure
EDG	Emergency Diesel Generator
ERT	Event Response Team
EW	East-West
FCV	Flow Control Valve
FPL	Florida Power and Light Company
FSAR	Final Safety Analysis Report
GEMS	Generating Equipment Management Systems
HHSI	High Head Safety Injection
HX	Heat Exchanger
IAW	In Accordance With
ICW	Intake Cooling Water
ICWP	Intake Cooling Water Pump
IST	Inservice Testing
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
NWE	Nuclear Watch Engineer
OMS	Overpressure Mitigating System
ONOP	Off Normal Operating Procedure
OOS	Out-of-Service
OTSC	On The Spot Change





Management-on-Shift (MOS)

ACRONYMS

Continued

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
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RCS	Reactor Coolant System
RHR	Residual Heat Removal
RTD	Resistance Temperature Device
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SAS	Safety Assessment System
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SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
STA	Shift Technical Advisor
TSA	Temporary System Alteration
TP	Temporary Procedure
W	Westinghouse Corporation





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Management on Shift (MOS)

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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**

The on-shift personnel are being very attentive to safety, and are paying strict attention to procedures. Work is being done in a high quality manner. Procedural changes are being made as deficiencies are noted.

**F. Area(s) for improvement**

There are a large number of PWO's throughout the Plant, and are being resolved as time, manpower and material permit. The Operations and Maintenance staff are working hard to resolve these, and are occasionally frustrated by paper (documentation/procedural) weaknesses which slow or stop work until they are rectified. As far as I can tell, they are genuinely committed to getting the job done. Two tasks are being attempted - refurbishing the Plant while concurrently formalizing procedures which in the past were used as guides only and required a great deal of knowledge to perform. More non-licensed personnel are required to support this effort.

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MOS DAILY REPORT

G. Recommendations

None

Completed By: Peter L. Walker  
MOS Observer

Date: 11-14-87

Reviewed By: Richard J. Mendel  
Operations Superintendent - Nuclear

Date: 11-16-87

*Joe 11/16/87* *773 11/16/87*

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MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11-13-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

Mode 5 Operations in support of Plant maintenance activities.

- Unit 3 CCW clearance.
- Pre-shift and post-shift briefings.

B. Immediate safety problems

None observed

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★/JWG/dj/sr/dj

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MOS DAILY REPORT

C. Questionable work practices

None observed

D. Actions taken

N/A

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★/JWG/dj/sr/dj

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**MOS DAILY REPORT**

**E. Strengths**

During the pre-shift briefing for the peak shift, the PSN explained to the shift crew a more effective method of handling the increasing number of procedure problems. He also stressed minimizing the number of personnel in the Control Room and tried to convey to the entire shift that the proper conduct of Operations is the responsibility of each Operator.

Both shifts are effectively prioritizing the work to more adequately utilize their resources.

**F. Area(s) for improvement**

None



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MOS DAILY REPORT

G. Recommendations

None

Completed By: Jeff A. Spodick  
MOS Observer

Date: 11-13-87

Reviewed By: Richard L. Mark  
Operations Superintendent - Nuclear  
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Date: 11-16-87

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\*/JWG/dj/sr/dj

11/13/87





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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**  
  
None

**F. Area(s) for improvement**

To provide Control Room Supervisors a hard copy direction and priority list of daily activities and items to be completed each shift. Changing direction (priorities) and phone information to one shift leaves information gaps and leads to minor confusion between shifts.

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MOS DAILY REPORT

G. Recommendations

Operations and Maintenance departments appear to need more people to adequately cover the evolutions in progress and required to return unit to power operation.

Completed By: L. C. Huenniger  
MOS Observer

Date: 11-14-87

Reviewed By: Richard J. Huende  
Operations Superintendent - Nuclear

Date: 11-16-87

Joe 11/16/87 JB 11/16/87  
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Management on Shift (MOS)

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MOS DAILY REPORT

C. Questionable work practices

NONE

D. Actions taken

NONE

PLW/md  
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**MOS DAILY REPORT**

E.        Strengths  
          None

F.        Area(s) for improvement  
          None

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11/14-15/87





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**MOS DAILY REPORT**

G. Recommendations  
None

Quiet Night

Completed By: Peter L. Walker  
MOS Observer

Date: 11-15-87

Reviewed By: *Richard A. Wauke*  
Operations Superintendent - Nuclear  
*Joe 11/16/87* *7112 11/16/87*

Date: 11-16-87

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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11-14-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

- Mode 5 Control Room operations.
- Power range NIS surveillance testing.
- NPO tour and log taking.
- Afternoon outage planning meeting.
- Normal pre and post shift briefings.

B. Immediate safety problems

None observed

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11/14/87

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MOS DAILY REPORT

C. Questionable work practices

None observed

D. Actions taken

N/A

JAS/md  
★/JWG/dj/sr/dj

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**MOS DAILY REPORT**

**E. Strengths**

Plant Operators are aggressively using procedures on shift. Procedural deficiencies are being identified and the appropriate information to correct the procedure is being sent to the procedures upgrade group.

**F. Area(s) for improvement**

The RHR pump minimum recirculation flow verification test had to be conducted twice because an under-ranged Heise gauge was used the first time. It appears that test personnel were unaware that RHR suction pressure of  $\approx 375$  psia would necessitate a larger range pressure gauge. Additionally, the test procedure only listed test gauge as required under the materials required section. If the test gauge specifications had appeared in the test procedure, this test problem could have been detected and corrected earlier.

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**MOS DAILY REPORT**

**G. Recommendations**

Test procedures should clearly specify the type of test equipment to be utilized, including instrument range, capacity limitations, etc.

Completed By: Jeff A. Spodick  
*MOS Observer*

Date: 11-14-87

Reviewed By: *Richard L. Mendel*  
*Operations Superintendent - Nuclear*

Date: 11-16-87

*JAS 11/16/87* *7113 11/16/87*

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JAS/md  
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11/14/87

**Management-on-Shift (MOS)**  
**ACRONYMS**

AFW	Auxiliary Feedwater
ANPO	Assistant Nuclear Plant Operator
APSN	Assistant Plant Supervisor Nuclear
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NWE	Nuclear Watch Engineer
OMS	Overpressure Mitigating System
ONOP	Off Normal Operating Procedure
OOS	Out-of-Service
OTSC	On The Spot Change



Management-on-Shift (MOS)

ACRONYMS

Continued

PORV	Power Operated Relief Valve
PPM	Parts Per Million
PRZ	Pressurizer
PUP	Procedure Upgrade Program
PWO	Plant Work Order
QSPDS	Qualified Safety Parameter Display System
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RCS	Reactor Coolant System
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SAS	Safety Assessment System
S/G	Steam Generator
SNOW	Short Notice Outage Work
SNPO	Senior Nuclear Plant Operator
STA	Shift Technical Advisor
TSA	Temporary System Alteration
TP	Temporary Procedure
W	Westinghouse Corporation

0-ADM-019

Management on Shift (MOS)

Approved Date

10/26/87

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## MOS DAILY REPORT

To: Operations Superintendent - Nuclear

Date: 11/14-15/87

From: L. C. Huenniger  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- 1) The preparation for removing the "B" diesel from service and thorough steps taken by the PSN and APSN to insure procedural compliance involving related equipment. Numerous procedures were checked, in addition, interpretation was sought from Plant Licensing, Operations Supervisor, QC Supervisor, and Plant Manager to insure no non-compliance would result.
- 2) Maintenance efforts in locating and plugging one tube in the 3B component cooling water heat exchanger, the major source of the component cooling leak.
- 3) The clearance preparation for removal of the 4B RHR pump for the installation of recirculation line per PCM 87-354.

## B. Immediate safety problems

None



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C. Questionable work practices

NONE

D. Actions taken

NONE

LCH/md

★JWG/dj/sr/dj

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E. Strengths

None

F. Area(s) for improvement

None

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★/JWG/dj/sr/dj

11/14-15/87



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**MOS DAILY REPORT**

G. Recommendations

None

Completed By: L. C. Huenniger  
MOS Observer

Date: 11-15-87

Reviewed By: Richard L. Mendel  
Operations Superintendent - Nuclear

Date: 11-16-87

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11/16/87

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11/16/87

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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11-15-87

From: Jeff A. Spodick - PSL  
(MOS Observer)

Shift: ☒ Day  
☐ Night

A. Plant evolutions observed

- Mode 5 Control Room operations.
- NIS surveillances.
- CCW realignments.
- Morning outage meeting
- Shift briefings.
- Shift turnovers.

B. Immediate safety problems

None observed

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**MOS DAILY REPORT**

C. Questionable work practices

None observed

D. Actions taken

N/A

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★/JWG/dj/sr/dj

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MOS DAILY REPORT

E. Strengths

Today was a fairly light day as far as Control Room clearances and system configuration changes are concerned. I reviewed the Turkey Point Reactor Startup Procedure in lieu of recent industry concerns regarding inadvertent criticality and reactivity excursions. The practice of requiring I/M plots for all reactor startups and the methods utilized in the procedure to ensure a safe startup are excellent practices. I surveyed quite a few licensed individuals and they all felt very confident with this procedure.

F. Area(s) for improvement

The present practice of having old Technical Specifications, new Technical Specifications, and licensing commitment documents in use to comply with Technical Specifications is an extremely poor policy. It is a credit to the professionalism of your Operations Department that they have been able to correctly interpret the Technical Specifications up till now.

The loss of RHR cooling procedure seems to be inadequate in that an operable RCS loop is not utilized for backup cooling in the event of a loss of both RHR loops.

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**MOS DAILY REPORT**

**G. Recommendations**

- 1) The old Technical Specifications should be completely disgarded as soon as possible. The Operations department should be well represented on any committee that may currently be reviewing the interim or standard Technical Specifications. This practice was utilized effectively at St. Lucie Plant while finalizing the Unit 2 Technical Specifications.
- 2) Investigate changes to the loss of RHR cooling ONOP to allow use of RCS cooling loops as the preferred method of decay heat removal assuming the loss of both RHR loops.

Completed By: Jeff A. Spodick  
MOS Observer

Date: 11-15-87

Reviewed By:

Richard J. Wanda  
Operations Superintendent - Nuclear

Date: 11-16-87

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**MOS DAILY REPORT**

To: Operations Superintendent - Nuclear

Date: 11/15-16/87

From: Peter L. Walker - (W)  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Diesel generator A operational check.
- NIS intermediate range test - Unit 4.
- I&C test - Unit 4 RHR temperature indications.
- Monitored progress of Unit 4 RHR CCW chlorides.
- Shift turnovers: 10:30 and 11:30 P.M.

B. Immediate safety problems

None

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C. Questionable work practices  
NONE

D. Actions taken  
NONE

PLW/md  
★/JWG/dj/sr/dj

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**MOS DAILY REPORT**

**E. Strengths**

None

**F. Area(s) for improvement**

None

PLW/md  
★/JWG/dj/sr/dj

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MOS DAILY REPORT

G. Recommendations

None

Completed By: Peter L. Walker  
MOS Observer

Date: 11-16-87

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

Date: 11-16-87

*Joe* 11/16/87 *772* 11/16/87

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11/15-16/87



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MOS DAILY REPORT

C. Questionable work practices  
NONE

D. Actions taken  
NONE

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★/JWG/dj/sr/dj

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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: L. C. Huenniger  
MOS Observer

Date: 11-16-87

Reviewed By: Richard J. Woods  
Operations Superintendent- Nuclear

Date: 11-16-87

*JCH*  
11/16/87

*RJW*  
11/16/87

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