

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8807050484 DOC. DATE: 88/06/01 NOTARIZED: NO DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250  
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251  
 AUTH. NAME AUTHOR AFFILIATION  
 CONWAY, W.F. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 GRACE, J.N. Region 2, Ofc of the Director

*See Rpt*

SUBJECT: Forwards mgt on shift weekly rept for wk of 880523.

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L-88-248

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. The Plant Supervisor-Nuclear MOS Reports are also being submitted.

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

Very truly yours,

  
W. F. Conway  
Senior Vice President-Nuclear

WFC/SDF/dd  
attachment

cc: J. Lieberman, Director, Office of Enforcement, USNRC  
Dr. G. E. Edison, Project Manager, NRR, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant  
R. E. Tallon, President, FPL

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an FPL Group company

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# MANAGEMENT ON SHIFT (MOS)

WEEK STARTING: May 23, 1988

## WEEKLY SUMMARY REPORT

PAGE 1 OF 2

Four MOS Observers were on shift. Peter L. Walker, Westinghouse Electric Corporation (05/23-29/88, days); Jeff A. Spodick, St. Lucie Nuclear Plant Training Department (05/23-30/88, evenings); Howard L. Schneider, Turkey Point Nuclear Plant Planned Maintenance Special Projects Coordinator (05/23-25/88, evenings); and Wallace R. Williams, Jr. Turkey Point Nuclear Plant Assistant Superintendent Planned Maintenance (05/25-30/88, evenings).

Unit 3 operated at 100% power throughout the reporting period. Unit 4 progressed through startup operations returning to 100% power on May 29, 1988.

No immediate safety problems were identified by the MOS Observers during the reporting period.

One questionable work practice concerning leaving a hydrometer lying on safety-related batteries near terminals was identified by the MOS Observers.

During the reporting period, the MOS Observers noted ten recommendations and areas for improvements. These comments and suggestions involved:

Four comments were made concerning equipment such as the condition of turbine building systems piping hangers and supports, Control Room door inoperability and the operation of grass removal equipment at the Intake structure.

Three comments were made concerning documentation and procedural items such as Control Room notification of Non-Conformance Reports involving equipment operability, logging of the status of Transformer Cooling Fans and improvements to the procedure for Generator Gas Temperature Monitoring.

Three miscellaneous comments were made concerning the availability of people to do monthly walkdowns on safety-related systems, a method to eliminate accumulation of water in the Steam Air Ejector drain lines and a need for better stroke time data and bench spring settings for the Pressurizer Spray Valves.

8807050484

ATTACHMENT: MOS DAILY REPORTS



# MANAGEMENT ON SHIFT (MOS)

WEEK STARTING: May 23, 1988

## WEEKLY SUMMARY REPORT

PAGE 2 OF 2

During the reporting period the Plant Supervisor-Nuclear (PSN) MOS reporting program continued.

The PSN's identified four questionable work practices during this reporting period. These items were associated with: the use of the Operations page channel by Security personnel for non work-related conversations, the presence of high pressure industrial gas bottles with hydrostatic tests out-of-date, availability of personnel to walkdown safety-related systems and the need for improved I & C technician training and turnover practices associated with the Main Steam Isolation Valve nitrogen regulators.

Additionally, the PSN's identified eight areas for improvement. These concerns included the existence of out-of-date procedures in the spare copy files, guidance on when to use Non-Conformance Reports instead of Plant Work Orders, repair of equipment room doors after major maintenance and maintenance of current phone numbers in the PSN Duty Call Book.

ATTACHMENT: MOS DAILY REPORTS

To: Operations Superintendent - Nuclear

Date: 05/23/88

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

## A. Plant evolutions observed

- Unit 3, 100% Steady State Operations
- Unit 4, Holding at less than 350° F, waiting for Nuclear Instrumentation and Heat tracing repairs
- Attended Plan of the Day Meeting

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

No problems - The operability concerns resulting from the heat tracing problems were properly addressed by the staff.


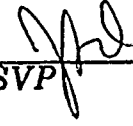

Completed By: P. L. Walker  
MOS Observer

Date: 05/23/88

Reviewed By:   
Operations Superintendent - Nuclear

Date: 5/24/88

Management  
Review By:

 15/24/88 PM-N Date  15/24/88 SVP Date  1 Date 05/23/88

100





0-ADM-019

Management on Shift (MOS)  
MOS DAILY REPORT

Page

1

To: Operations Superintendent - Nuclear

Date: 05/23-24/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Maintenance activities at Unit 4  
-N 32 and N 36, Source Range and Intermediate Range Nuclear Instrument Resistance checks
- Unit 4 heatup to Mode 3 (greater than 350° F)
- Full power steady state operation at Unit 3

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None observed

## E. Professionalism, Summary of Shift, Comments

The pre-shift briefing was attended by all shift operators and the major maintenance disciplines. This made it easy to communicate shift goals to the work crews.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/23-24/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/24/88

Management  
Review By:

C/B 15/24/88 [Signature] 15/24/88 1  
PM-N Date SVP Date VP Date



To: Operations Superintendent - Nuclear

Date: 05/23-24/88

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

## A. Plant evolutions observed

- Unit 3, 100% power operation
- Unit 4, Mode 3
- "A" Emergency Diesel Generator Operability Test
- Electrical Maintenance performing Heat Trace Periodic on circuit 6
- Toured various plant areas: e.g., Intake; Turbine area; Radiation Control area; Unit 4, 4160 Volt switchgear rooms; Cable Spreading area
- Beginning of shift (mids) meeting

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Operations experiences problems regarding monthly verification of safety related system flow paths. They have to followup to ensure the assigned people come out and do the walkdowns.

## E. Professionalism, Summary of Shift, Comments

Mid shift meeting was very informative and provided excellent communication among people involved.

Completed By: H. L. Schneider  
MOS Observer

Date: 05/23-24/88

Reviewed By: *A. W. Pearce*  
Operations Superintendent - NuclearDate: 5/24/88Management  
Review By:

<u><i>CP</i></u>	<u>15/24/88</u>	<u><i>JS</i></u>	<u>15/24/88</u>	<u>1</u>	<u></u>
PM/N	Date	SVP	Date	VP	Date

05/23-24/88

100



Date Started 05/23/88

# PSN MOS

Date Finished 05/23/88

Initiating PSN Schmkus PSN \_\_\_\_\_ Completed PSN Schmkus

Initiating APSN Dallau APSN \_\_\_\_\_ Completed APSN Dallau

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

1. Control Room carpets need to be swept once per shift. The electric vacuum is so noisy that it is a total distraction to the RCO's, thus is used only once a day on peaks. The non-electric carpet sweeper is quiet but is so cheaply constructed that it won't pick up anything other than lint balls. Recommendation: Find a good industrial type non-electric or quiet electric sweeper that can be used on each shift by the cleaning personnel and not disrupt the Control Room operations. Need ASAP.

**C. Good Practices/Professionalism Observed**

Normal Operations - Good teamwork

Date 5/24/88 Actions Completed

Date

100



Date Started 5/23/88

# PSN MOS

Date Finished 05/24/88

Initiating PSN Anderson PSN \_\_\_\_\_ Completed PSN Anderson

Initiating APSN Reese APSN \_\_\_\_\_ Completed APSN Reese

**A. Questionable Work Practices/Actions Taken/Recommendations**

Each time we need safety system walkdowns done, the Control Room has to call the personnel to perform the walkdown. Many times the person scheduled to do the walkdown is not available and we spend many hours getting someone to perform the walkdown. Recommend: the person responsible for the safety system walkdown be accountable for its completion. If he is scheduled to be out of town or can't perform it for any other reason, he should make arrangements so as to have it done by someone else instead of leaving it up to the APSN or PSN to do it.

**B. Areas for Improvement/Recommendations/Actions Taken**

None

**C. Good Practices/Professionalism Observed**

None

*[Signature]*  
Date 5/24/88

Actions Completed

Date

100





To: Operations Superintendent - Nuclear

Date: 05/24/88

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

## A. Plant evolutions observed

- Unit 3, Steady State Operations
- Unit 4, cleared a few hurdles and continued to heat up toward normal operating temperature.
- Attended Plan-of-the-Day meeting (7:20) and morning conference call meeting (7:40)

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

1. Checking with Turbine Operators, I observed that there is still no method of tracking when transformer cooling fans are taken in and out-of-service, or why Transmission and Distribution does so. When I closed out item 88-0652, I was assured that a log entry would be provided to enable tracking of fan status. Nothing has changed.
2. Condenser Steam Jet Air Ejector Drain Line design needs to be looked at to evaluate water accumulation drain-off. Personnel and equipment are still getting doused when "Hogger" is placed in service, even with procedural change to ensure that drain valve is opened. The amount of water released is much less than before, but I'm still concerned about dousing the ejector radiation monitor.
3. I have seen quite a few cases of improperly supported pipes in the secondary system. An evaluation method is being proposed by Frank Muhammed which, if implemented fully, would correct the types of support problems I observed. The following questionable supports were observed:
  - a. Support for Unit 4 Priming Jet Piping between two Velan check valves - completely unloaded, no contact with spring support pad.
  - b. Support under valve 4-30-770 (north end of MSR-4A) almost fully compressed, and off center of spring.

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- c. On both units, the purge valves which run in parallel with the main steam supplies to the MSR's are supported in piggy back fashion on the spring supports for the main steam inlet piping. These lines tend to have a lot of vibration, and the valve operators have a large momentarm to put stress on the valves and pipes.
  - d. A whole section of piping adjacent to Feedwater Heater 6B is misaligned and the supports are almost ineffective. This was addressed by REA 84-93, and is to be corrected under NCR 87-0052. Five supports are involved; two are off center of base pads, one is cocked and bent, and two spring supports are almost completely off the spring pads.
  - e. Support for valve 3-CV 2910 is completely pulled free of the concrete deck and the line is vibrating.
  - f. Valve 3-MOC-1431 support is shimmed and misaligned.
  - g. A spring support under a line on the south end of the 3B MSR is not contacting the line-totally non-supportive. (Line 20 TR 419 PTN).
  - h. Concerning two spring pads under line GPJ419 PTN (main steam to 3B MSR), one is fully compressed and the other is almost completely unloaded and is an example of a piggy-backed support for another line.
  - i. With regards to the massive MSR support pads, there seems to be an inconsistent philosophy with respect to the number of through bolts used in each support, ranging from no bolts at all to 3 or 4.
4. Work platforms around the MSR 4D and MSR 3B Reheat Line Valves have supports which are loose (unsecured) at the Turbine Operating Deck.

E. Professionalism, Summary of Shift, Comments

A lot of work was done today in support of Unit 4's heat up, in conjunction with an emergency drill. The staff did a good job of coordinating all of the various efforts.

Completed By: P. L. Walker  
MOS Observer

Date: 05/24/88

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

Date: 5/25/88

Management  
Review By:

PM-N 1 Date SVP 1 Date

*[Signature]* 5/25/88  
VP Date  
05/24/88

To: Operations Superintendent - Nuclear

Date: 05/24-25/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 4:
  - RPS Logic Testing
  - Safeguards Relay Testing
  - Safety Injection Check Valve Testing
- Unit 3:
  - Normal operation at 100% power
  - Response to Generator RTD Hi Temperature Alarm
- Common:
  - Shift briefing, PSN,APSN turnover

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Operating procedure 8702.2 Generator Gas H2 Temperature monitoring, provides instructions for the Generator RTD Hi Temperature Alarm Condition.

The procedure does not suggest reduction of megavars or increase in Turbine Cooling Water (TCW) flow as possible solutions to the high stator differential temperature condition.

The RCO correctly reduced megavars and increased generator gas pressure to correct the high differential temperature condition.

The procedures group should consider the above two items for inclusion in the procedure where appropriate.

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E.

## Professionalism, Summary of Shift, Comments

Both unit 3 and Unit 4 Control Board operators exhibited close attention to detail in responding to abnormal plant conditions. The Unit 4 Control Board operator detected an abnormal pressurizer pressure control system response. He initiated actions to commence steam space venting of the pressurizer when he diagnosed the possibility of a "hard bubble" in the pressurizer.

The shift PSN, although busy most of the shift with numerous activities, managed to conduct a training checkout with the SRO trainee on shift. This shows a positive commitment toward training.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/24-25/88

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

Date: 5/25/88

Management  
Review By:

PM-N 1 Date SVP 1 Date

*5/25/88*  
VP 5/25/88  
Date

05/24-25/88

24



To: Operations Superintendent - Nuclear

Date: 05/24-25/88

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

## A. Plant evolutions observed

- Unit 3, 100% Reactor Power
- Unit 4, Mode 3
- Beginning of shift (mids) meeting
- Toured plant areas e.g., intake, turbine and radiation control area
- Unit 4, reactor protection test
- 4A Intake Cooling Water pump shaft investigation

## B. Immediate safety problems

None

## C. Questionable work practices

None observed

## D. Areas for improvement

No recommendations

## E. Professionalism, Summary of Shift, Comments

Good shift meeting, excellent exchange of information among all personnel involved.

Shift encountered many situations while completing their assigned tasks, each was addressed in a professional manner.

Completed By: H. L. Schneider  
MOS Observer

Date: 05/24-25/88

Reviewed By:   
Operations Superintendent - Nuclear

Date: 5/25/88

Management  
Review By:

PM-N

Date

SVP

Date

VP

Date

05/24-25/88



44



Date Started 05/24/88

# PSN MOS

Date Finished 05/24/88

Initiating PSN Schimkus PSN \_\_\_\_\_ Completed PSN Schimkus

Initiating APSN Dallau APSN \_\_\_\_\_ Completed APSN Dallau

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendtions/Actions Taken**

1. Following PCM changes for undervoltage protection on 480 Volt Load Centers (past years), the door screws on the backside of Unit 4 480 Volt Load Center were stripped and won't secure into the doors. This should not have been left in this condition. Recommendation: Have Construction renew door screws to original condition. In the future don't leave a components equipment doors in poor condition because door repair is not part of the original PCM package. Workers should identify and PWO these items.

**C. Good Practices/Professionalism Observed**

Routine operations - Good operator actions to continue Unit 4 Heat up.

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Date Started 05/25/88

# PSN MOS

Date Finished 05/25/88

Initiating PSN Salkeld PSN \_\_\_\_\_ Completed PSN Salkeld

Initiating APSN Guyer APSN \_\_\_\_\_ Completed APSN Guyer

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

None

**C. Good Practices/Professionalism Observed**

All activities performed in a professional manner.

Reviewed By SW Plau Date 5/24/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_

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# PSN MOS

Date Started 05/24/88

Date Finished 05/24/88

Initiating PSN Wogan PSN \_\_\_\_\_ Completed PSN Wogan

Initiating APSN Hollinger APSN \_\_\_\_\_ Completed APSN Hollinger

A. Questionable Work Practices/Actions Taken/Recommendations

Areas for Improvement/Recommendations/Actions Taken

C. Good Practices/Professionalism Observed

Reviewed By [Signature] Date 5/28/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_



0-ADM-019

Management on Shift (MOS)  
MOS DAILY REPORT

Page

1

To: Operations Superintendent - Nuclear

Date: 05/25/88

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

## A. Plant evolutions observed

- ° Unit 3, Steady State 100% Power Operations
- ° Unit 4, Mode 3 cooled down and depressurized to less than 1000 psig to attempt a successful retest of check valves 876 A, B, and C

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

Due to the amount of activity and the concern over the spray valves and the check valves, the shift was not as smoothly run or quiet as others I have observed.

Completed By: P. L. Walker  
MOS Observer

Date: 05/25/88

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

Date: 5/26/88

Management  
Review By:*C/B* 15/26/88 *gpo* 15/26/88  
PM/N Date SVP Date VP Date

05/25/88





0-ADM-019

**Management on Shift (MOS)**  
**MOS DAILY REPORT**

Page

1

To: Operations Superintendent - Nuclear

Date: 05/25-26/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night**A. Plant evolutions observed**

- Unit 3: Normal Full Power Operations
- Unit 4: Reactor Coolant System (RCS) Pressure Boundary Check Valve Test  
I&C and Operations repair and calibration of V-455B Pressurizer Spray Valve
- PSN/APSN turnover
- Shift Briefings

**B. Immediate safety problems**

None

**C. Questionable work practices**

None

**D. Areas for improvement**

None

**E. Professionalism, Summary of Shift, Comments**

A tailboard session and briefing was conducted in the control room prior to conducting the RCS Pressure Boundary Check Valve Test. This is an effective method of ensuring proper communications and coordination of effort between the Operations Department and the various Maintenance Departments.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/25-26/88

Reviewed By: L.W. Pearce  
Operations Superintendent - NuclearDate: 5/26/88Management Review By: CJB 15/26/88 MS 5/26/88 1  
PM-N Date SVP Date VP Date

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To: Operations Superintendent - Nuclear

Date: 05/25-26/88

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

## A. Plant evolutions observed

- Mid shift start of shift briefing
- Operations and technical tailboard for Reactor Coolant System (RCS) check valve testing
- Residual Heat Removal (RHR) Heat Exchanger Hanger NCR discussions
- I&C work on spray valve 455B
- Toured:  
3B and 4A Battery rooms, Inverter rooms, Cable Spreading Room, #3 Turbine Deck, #4 TPCW area, and #3 TPCW area
- Talked with various Maintenance foreman, chief, and supervisors; Technical department supervisors and Operations personnel

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Need better valve stroke values and bench spring settings to avoid rework on the spray valves as the units are heated-up.

Technical/Engineering needs to evaluate and provide valve stroke and bench spring settings to allow the spray valves to be set correctly when they are worked.

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## E. Professionalism, Summary of Shift, Comments

Good tailboard between Operations and Technical prior to the RCS check valve testing.

Good response by Electrical Maintenance to provide planning for work on MOV-4-865C problem. Also Mechanical Maintenance provided support to scope-out scaffolding needs and access any problems with inter-services.

I&C, Operations, and H.P. working closely to resolve 455B problems.

Mechanical Maintenance and Operations working to resolve leaking valves identified during over-pressure test.

Operations - good attention to detail. Example: tracking and correcting for increase in vibration on #9 Exciter bearing.

Operations/Maintenance Coordinator and Q.C. Supervisor made prompt notification to Control Room of RHR Heat Exchanger Hangers - NCR. The receipt of a copy of the NCR in the Control Room helped to further clarify the issue. Backfit was turned-on to make the repairs and were starting the repairs on early mid-shift.

Good positive attitude and teamwork through-out the night.

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

Date: 05/25-26/88

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

Date: 5/26/88

Management  
Review By:

CJB 15/26/88 VP 1  
PMN Date SVR Date VP Date

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Started 05/25/88

# PSN MOS

Date Finished 05/25/88

Initiating PSN Schmkus PSN                      Completed PSN Schmkus

Initiating APSN Dallau APSN                      Completed APSN Dallau

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

Today I had to make a one hour reportable 10CFR50.72 notice to the NRC Operations Center. This was easily accomplished utilizing the PSN Emergency Plan/Significant Event Procedure Book. Then I had to notify the plant and corporate individuals of the event. The PSN duty call book was in such bad condition that I could not locate the Corporate V.P. of Nuclear Operations phone number. Thus I called the Juno Beach office operator to obtain his number.

Recommendations: Make this duty call book a controlled book in which the Emergency Preparedness Department is solely responsible to update and audit the book weekly to ensure completeness.

Note: They should be responsible for providing all department call supervisor phone numbers each week.

**C. Good practices/professionalism Observed**

Dayshift received excellent feedback from two Vice Presidents from two independent utilities as they toured our Nuclear Control Room. I was approached by one V.P. who informed me that he was totally impressed by how our Control Room Staff handled various off-normal situations being caused by a violent rain-storm outside. Some of the situations were a multitude of of rain induced grounds, and Unit 3 Generator Exciter #9 bearing rapid increase in vibration due to rain induced cool down of secondary oil systems.

*[Handwritten signatures and initials]*





# PSN MOS

Date Started 05/25/88

Date Finished 05/26/88

Initiating PSN Salkeld PSN                      Completed PSN Salkeld

Initiating APSN Guyer APSN                      Completed APSN Guyer

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

The major steps of the PCV-455B maintenance procedure were not reviewed with the RCO prior to commencing work. Thus the RCO was unaware that the Pressurizer Spray valve was to be opened. After the initial transient, the I&C Supervisor was consulted and the maintenance procedure was modified to allow the RCO to cycle the valve when needed, giving him positive control of the activity.

**C. Good practices/Professionalism Observed**

During maintenance on PCV-455B, I&C in accordance with their procedure, locally opened this Pressurizer spray valve without notifying the RCO. The RCO, Rick Adamson, spotted the reduction in Reactor Coolant System (RCS) pressure, identified the cause (with no valve position indication and the hand auto station de-energized) and took compensatory action to stabilize the unit quickly. This is a example of continuous vigilance to plant conditions which is a cornerstone to watch standing professionalism.

*[Handwritten signature]* *[Handwritten initials]*

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0-ADM-019

**Management on Shift (MOS)**  
**MOS DAILY REPORT**

Page

1

To: Operations Superintendent - Nuclear

Date: 05/26/88

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

## A. Plant evolutions observed

- Unit 3, 100% Steady State Operations - Generator temperature very close to load reduction setpoint (must go off-line).
- Unit 4, Heated up to 547° F, 2235 PSIG and stabilized.
- Attended Plan of the Day, morning phone call and afternoon shift turnover meetings

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

Good shift - Unit 4 heatup was skillfully completed. Near the end of my shift, turbine/generator gas temperatures in Unit 3 reached load-threatening values, and the crew was monitoring them closely. Actions were taken to maximize cooling of generator.

Completed By: P. L. Walker  
MOS Observer

Date: 05/26/88

Reviewed By: Richard L. Ward  
Operations Superintendent - Nuclear

Date: 5-27-88

Management  
Review By:C/W 15/27/88 1  
PM-N Date SVP Date VP Date  
05/28/88

10/10/11

10/10/11



To: Operations Superintendent - Nuclear

Date: 05/26-27/88

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

## A. Plant evolutions observed

- Electrical Maintenance work on #3 Generator Resistance Temperature Detector (RTD) high delta temperature
- Midshift turnover and start of shift briefing
- Toured:
  - 3C and 4C Battery and Load Center Rooms
  - #4-480 Volt Load Center Rooms
  - Ground level of Unit 3 and 4 Turbine Building

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

1. Operators not provided a copy of NCR on Unit #3 Residual Heat Removal Heat Exchanger hangers until Mechanical Maintenance brought one to the shift briefing. Last night (5/26-27) the copy provided to the Control Room helped answer concerns. Information of this type should be provided to the Control Room in a prompt manner.
2. Grass from the canal system is causing a burden for Operations and Mechanical Maintenance in keeping the various strainers clean and the equipment operating temperatures under control. Method to collect and dispose of grass is greatly needed. (This is a repeat of previous recent MOS reports).

## E. Professionalism, Summary of Shift, Comments

1. Assisted Electrical Maintenance on high delta temperature on #3 Generator. Problem appears to be point #7 reading 2.4 degrees lower than any other point. Electrical Maintenance to complete review of historical data and provide recommendation.
2. Reviewed Electrical Maintenance work package for troubleshooting Exhaust Hood Temperature Alarm on Unit #3. Package was very good. It included Troubleshooting Guide Procedure, O-GME-102.1 and complete set of hi-lighted drawings showing the circuits to be checked in yellow and those which are in the Generator lock-out circuit in red (and not to be checked).
3. Continue to have good start of shift briefing meetings.

Completed By: Wallace R. Williams, Jr.  
MOS ObserverDate: 05/26-27/88Reviewed By: Richard J. Mendo  
Operations Superintendent- NuclearDate: 5-27-88Management  
Review By:CPB 15/27/88 1 1  
PM-N Date SVP Date VP Date

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To: Operations Superintendent - Nuclear

Date: 05/26-27/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3  
-Normal full power operation and scheduled surveillances
- Unit 4  
-Mode 3 operations and plant maintenance activities

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Non-Conformance Reports: These reports at times address safety-related equipment. When the reports finally make their way to the Control Room, they may be several hours old. Operations then may find that equipment referenced in the NCR places the operability of safety-related equipment in doubt.

Plant management should resolve the communications problems associated with the NCR system. The 5/26-27/88 PSN MOS Report contains a more detailed account of weaknesses associated with this system.

## E. Professionalism, Summary of Shift, Comments

During the mid shift, the PSN was presented a Non-Conformance Report referencing the Residual Heat Removal (RHR) Room piping and supports. He conducted a thorough review of the report and concluded that based upon information in the report, the operability of the RHR System was in question. The PSN then took positive action to repair the equipment rather than waiting for disposition of the NCR.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/26-27/88

Reviewed By: Richard J. Wende  
Operations Superintendent - Nuclear

Date: 5-27-88

Management  
Review By:

OK 15/2/88 /  
PM-N Date SVP Date VP Date  
05/26-27/88

100



# PSN MOS

Date Started 05/26/88

Date Finished 05/26/88

Initiating PSN Wogan PSN                      Completed PSN Wogan

Initiating APSN Hollinger APSN                      Completed APSN Hollinger

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

Place the Control Room i.e., PSN, APSN, on distribution for NCR's generated on plant equipment. Tech. Spec. requirements for action to be taken are as little as one hour. Timely evaluation of this information is absolutely essential.

**C. Good Practices/Professionalism Observed**

Unit 3, Normal operation

Unit 4, Plant startup with all required testing and support done satisfactorily.

*DR M. D.*

*5-27-88*

Actions Completed

Date

100



Date Started 05/26/88

# PSN MOS

Date Finished 05/27/88

Initiating PSN Salkeld PSN                      Completed PSN Salkeld

Initiating APSN Guyer APSN                      Completed APSN Guyer

## A. Questionable Work Practices/Actions Taken/Recommendations

Two or three guards were engaged in informal conversation on the operations channel. The Security Shift Supervisor was notified. He identified two of those involved and will take appropriate action.

## B. Areas for Improvement/Recommendations/Actions Taken

NCR 88-067 noted eleven items of concern. There were several problems with this NCR.

- Item #2: Referenced the wrong specification to which to inspect the hanger.
- Item #5: Said the reach rod to Residual Heat Removal (RHR) valve 757A "was found disconnected at the first gear box." In fact, the roll pin was found to be displaced about 1/4".
- Item #8: Identified hanger 3-ARH-118 as being discrepant when in fact it was hanger 3-AHR-84. Furthermore, the corrective action was inappropriate for this type of hanger.
- Item #11: Described a heat tracing line that was apparently spliced using red duct tape. In fact it was a scrap 3/4" piece of red duct tape stuck to a Post Accident Monitoring System pipe.
- Items 7 & 8: Were described as an "unanalyzed condition". The cognizant engineer assured us that these items were not "unanalyzed conditions," as per 10 CFR 50.72. It is recommended that use of this term be avoided in the future to avoid confusion.
- Items 5 & 11: Were to have separate NCR's initiated which would address operability concerns. Either of these, if valid, would put the operating unit into a Limiting Condition for Operation (LCO) action statement. Both are routine maintenance items which should have been documented with a PWO, not an NCR. Had PWO's been written, the Control Room would have been notified and the operability and Tech. Spec. concerns addressed immediately.

The Control Room was not notified of the NCR or discrepant conditions which were potential operability concerns for 13 hours; and then only after the Construction Supervisor brought a copy of the NCR to the Control Room.

The cognizant engineer was contacted. He told us the reason the Control Room was not informed was because Engineering had no procedure to do so.

It is recommended the QC and JPE be given guidance as to which items are best addressed via the PWO system instead of an NCR. Additionally the Control Room should receive a copy of any NCR's which may effect the operability of systems or components.

## C. Good practices/Professionalism Observed

No comment

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To: Operations Superintendent - Nuclear

Date: 05/27/88

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

## A. Plant evolutions observed

- Unit 3, 100% Steady State Power Operation
- Unit 4, Mode 3, Getting ready for criticality
  - Working on a few valves
  - Performing Reactor Coolant System pressure leakage test
  - Adjusted boron for criticality
  - Performed turbine valves test

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

Progressed smoothly, quietly and safely toward establishing criticality conditions.

It was nice to see no leakage develop during the leakage test.

Completed By: P. L. Walker  
MOS Observer

Date: 05/27/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

[Signature] 15/31/88 [Signature] 15/31/88 [Signature] 1  
PM/N Date SVP Date VP Date  
05/27/88

24





To: Operations Superintendent - Nuclear

Date: 05/27-28/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- ° Unit 3:
  - Normal full power operation
  - Troubleshooting of Pressurizer Heater Control Bank low kilowatts problem.
  - Control Room response to a Reactor Coolant Pump flow perturbation
- ° Unit 4:
  - Reactor Engineering shift briefing regarding Rod Position Technical Specifications
  - Reactor Startup
  - Auxiliary Feedwater testing

## B. Immediate safety problems

None

## C. Questionable work practices

None observed

## D. Areas for improvement

Maintenance on the Control Room door: The status of this door has gotten considerably worse over the last two days. It is very difficult to open the door when exiting the Control Room. This could present a personnel hazard during a Control Room inaccessibility event.

## E. Professionalism, Summary of shift, Comments

1. The approach to criticality was conducted in a very professional manner. A trainee conducted the approach under the supervision of the Reactor Operator. He was continuously monitored and frequently questioned to ensure he fully understood the process, including theoretical concepts.
2. The Control Room team constantly double checks Interim Technical Specifications, versus the original Technical Specifications to ensure compliance with both.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/27-28/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

C/N 15/31/88 [Signature] 15/31/88 1  
PM-N Date SVP Date VP Date  
05/27-28/88

100



To: Operations Superintendent - Nuclear

Date: 05/27-28/88

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

## A. Plant evolutions observed

- ° Unit 3, Full Power Operation
- ° Paralleling of 4B Motor Generator (MG) set to 4A MG set using 4-OP-028.
- ° #4 Reactor startup and criticality
- ° 3A Reactor Coolant Pump seal leak-off problem
- ° Auxiliary Feedwater testing prior to Unit 4 going on-line
- ° Mid shift start of shift briefing

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Repair Control Room door. Very difficult to open when exiting from Control Room.

## E. Professionalism, Summary of Shift, Comments

1. During Reactor startup, APSN kept control board area clear of those persons not directly involved, thereby allowing the evolution to be done efficiently and without confusion.
2. 3A Reactor Coolant Pump seal leak-off monitored closely by Reactor Operator, APSN and PSN. Condition was discussed at briefing by APSN. Volume Control Tank level was decreased which finally returned leak-off to previous values. Operations personnel didn't stop here, but continued to review procedures, logs, and various parameters to search out why this happened.
3. Auxiliary Feedwater testing was completed successfully.

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

Date: 05/27-28/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

[Signature] 5/31/88 [Signature] 5/31/88 [Signature] 5/31/88  
PMJN Date SVP Date VP Date  
05/27-28/88

Date Started 05/27/88

# PSN MOS

Date Finished 05/27/88

Initiating PSN Wogan PSN \_\_\_\_\_ Completed PSN Wogan

Initiating APSN Hollinger APSN \_\_\_\_\_ Completed APSN Hollinger

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

None

**C. Good Practices/Professionalism Observed**

Unit 4 Startup

Reviewed By

*R. W. Pierce*

Date

5/31/88

Actions Completed

Date

100



Date Started 05/28/88

# PSN MOS

Date Finished 05/28/88

Initiating PSN Salkeld PSN \_\_\_\_\_ Completed PSN Salkeld  
Initiating APSN Guyer APSN \_\_\_\_\_ Completed APSN Guyer

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

The copies of 4-OSP.075.6 taken from the Control Room spare copy file were found to be out-of-date. Had this outdated procedure been used, it would have resulted in a misalignment of the Auxilliary Feedwater System. Additionally, during the last two midshifts, another outdated procedure was pulled from the Control Room spare copy file and an outdated procedure was found in the ANPO's spare copy file. All operators were reminded of the importance of verifying the revision date of a procedure as well as checking to find any active OTSC against the procedures. While the operator bears the final responsibility for assuring the procedure he uses is up to date, a more effective system needs to be established to assure outdated procedures are removed from the field promptly.

**C. Good Practices/Professionalism Observed**

Good communications and cooperative practices between all departments.

Reviewed By P.W. Prince

Date 5/31/88

Actions Completed \_\_\_\_\_

Date \_\_\_\_\_

2000



To: Operations Superintendent - Nuclear

Date: 05/28/88

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

## A. Plant evolutions observed

- Unit 3, 100% power, Steady State Operations, evaluating possible RCS leak.  
Reportable event: Actuation of Control Room Recirculation and Containment purge isolation when a test switch on Containment Radiation Monitor R-11 was depressed. PWO issued.
- Unit 4, Synchronized to the Grid-power escalation to less than 50% power, held there until Rod Position Indicators were calibrated using flux map. Continued escalation toward 100%.

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

Loading onto grid and subsequent power increase was performed very well.  
Good job.

Completed By: P. L. Walker  
MOS Observer

Date: 05/28/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

9/15 15/5/88 15/31/88 1  
PM-N Date SVP Date VP Date  
05/28/88





To: Operations Superintendent - Nuclear

Date: 05/28-29/88

From: Jeff Spodick  
(MOS Observer)Shift: ☐ Day  
☒ Night

## A. Plant evolutions observed

- Unit 3:
  - 100% power operation
  - RCS leak rate determination and crew efforts to determine leakage source
- Unit 4:
  - Power increase from 60%
  - Main Feedwater Pump oil system maintenance, shift turnovers, reliefs and shift briefings

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

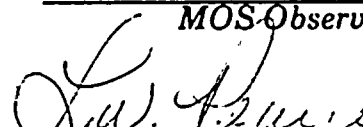
None

## E. Professionalism, Summary of Shift, Comments

None

Completed By: Jeff Spodick  
MOS Observer

Date: 05/28-29/88

Reviewed By:   
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

0/13 15/31/88 15/31/88 1  
PM-N Date SVP Date VP Date

05/28-29/88

20



10

To: Operations Superintendent - Nuclear

Date: 05/28-29/88

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

## A. Plant evolutions observed

- Unit 3, Full Power Operation
- Unit 4, about 60% power at start of shift and about 75% power at end of shift.
- 3B Main Steam Isolation Valve nitrogen leak
- 3A Reactor Coolant Pump seal leak-off still erratic
- Toured 3 and 4 Intake area, #4 Feedwater Pump Room, Cable Spreading Room, and 3A and 4B Battery Rooms.

## B. Immediate safety problems

None

## C. Questionable work practices

Hydrometer left touching terminal on a cell of 3A Battery and almost touching the terminal of the adjacent cell. Got with PSN and he addressed the concerns with his Turbine Operators. Recommend Training address proper battery care techniques and the reason for such with all personnel who work or take readings on the batteries.

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

1. Operation shift turnover with PSN's and APSN's very thorough and informative for both the on-coming and the off-going shifts.
2. 4B Steam Generator Feedwater Pump water-in-oil problems resolved so that the unit could continue towards 100% power.
3. Repair of the instrumentation nipple that had 3B Component Cooling Water Heat Exchanger out-of-service was completed but now the tubes are being cleaned before returning the heat exchanger to service.
4. 3B Main Steam Isolation Valve Nitrogen Regulator was repaired and leak testing now in progress.
5. Operations continuing to monitor 3A Reactor Coolant Pump seal leak-off. Also Containment Radiation Monitor R-11 and RCS leak rate being tracked as they continue to search for root cause.

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

Date: 05/28-29/88

Reviewed By:   
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

PM-N 15/31/88 SVP 15/31/88 VP 1  
Date Date Date Date Date  
05/28-29/88



Date Started 05/28/88

# PSN MOS

Date Finished 05/28/88

Initiating PSN Wogan PSN \_\_\_\_\_ Completed PSN Wogan

Initiating APSN Hollinger APSN \_\_\_\_\_ Completed APSN Hollinger

## A. Questionable Work Practices/Actions Taken/Recommendations

A nitrogen regulator for Main Steam Isolation Valve 3-2605 was found outside it's acceptable limits. It was subsequently adjusted, apparently without procedural guidance. This resulted in the valve being taken out-of-service due to inoperability. This challenges the design criteria and required a waiver of ADM-021 which is undesirable. No turnover was given on this evolution by I & C Department. This turnover could have helped troubleshoot the problems. The PSN recommended that I & C develop a training brief on proper adjustment of the regulators.

## B. Areas for Improvement/Recommendations/Actions Taken

None

## C. Good Practices/Professionalism Observed

The back shift I & C crew responded to the second Main Steam Isolation Valve (MSIV) problem very well and troubleshoot the regulator problem without knowledge of the day crew adjustment. Their responsiveness and troubleshooting abilities enabled us to minimize the length of time the MSIV was out-of-service.

Reviewed By *Jim Preece*

Date 5/31/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_



To: Operations Superintendent - Nuclear

Date: 05/29/88

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

## A. Plant evolutions observed

- Unit 3, Steady State Operation, crew successfully dampened out erratic Reactor Coolant Pump Seal behavior
- Unit 4, Power escalation from 60 to 100% power, stabilized unit. A hard ground developed on a bus and was promptly isolated.
- Control Room door is out-of-service again.

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

Control Room door has been sticking (exit only) for the past few days. Maintenance worked on it, got it to function properly for a day, and it is back to being called out-of-service again. It is unfortunate that it is a so highly visible maintenance problem.

## E. Professionalism, Summary of Shift, Comments

I liked the way the day shift crew smoothed out the pump seal erratic leak-off flow.

Another good day for all three crews I observed.

Completed By: P. L. Walker  
MOS Observer

Date: 05/29/88

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

Date: 5/31/88

Management  
Review By:

*[Signature]* 15/31/88 *[Signature]* 15/31/88  
PM-N Date SVR Date VP Date  
05/29/88



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0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1
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To: Operations Superintendent - Nuclear

Date: 05/29-30/88

From: Jeff Spodick  
(MOS Observer)

Shift: ☐ Day  
☒ Night

A. Plant evolutions observed

- Normal full power operation at both units
- Unit 3, Turbine Cooling Water and Intake Cooling Water Strainer cleaning

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None observed

E. Professionalism, Summary of Shift, Comments

During the mid shift, it was necessary to individually valve out and clean the Turbine Cooling Water/Intake Cooling Water strainers. This evolution caused elevated temperatures to individual Turbine Cooling Water cooled components. Control Room personnel continuously monitored the affected components and expeditiously made the necessary adjustments.

Completed By: Jeff Spodick  
MOS Observer

Date: 05/29-30/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management Review By: 9/5 15/31/88 [Signature] 15/31/88 1  
PM-N Date SVP Date VP Date  
05/29-30/88



To: Operations Superintendent - Nuclear

Date: 05/29-30/88

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

## A. Plant evolutions observed

- Units 3 and 4 at full power operation
- 3A Reactor Coolant Pump seal leak-off still erratic at times.
- 4B Steam Generator Feedwater Pump oil is now free of water.

## B. Immediate safety problems

None

## C. Questionable work practices

None

## D. Areas for improvement

None

## E. Professionalism, Summary of Shift, Comments

Operations and Mechanical Maintenance displayed great teamwork in keeping the various strainers cleaned and back in service to support the units.

Very quiet and smooth running shift with everyone doing their part to keep the units functioning.

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

Date: 05/29-30/88

Reviewed By: [Signature]  
Operations Superintendent - Nuclear

Date: 5/31/88

Management  
Review By:

[Signature] 15/31/88 [Signature] 15/31/88  
PM/N Date SVR Date VP 05/29-30/88



Date Started 05/29/88

# PSN MOS

Date Finished 05/29/88

Initiating PSN Wogan PSN \_\_\_\_\_ Completed PSN Wogan

Initiating APSN Hollinger APSN \_\_\_\_\_ Completed APSN Hollinger

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

None

**C. Good Practices/Professionalism Observed**

None

Reviewed By *P. J. [Signature]* Date 5/31/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_

100



Date Started <u>05/29/88</u>	<b>PSN MOS</b>	Date Finished <u>05/29/88</u>
------------------------------	----------------	-------------------------------

Initiating PSN <u>Anderson</u>	PSN _____	Completed PSN <u>Anderson</u>
Initiating APSN <u>Reese</u>	APSN _____	Completed APSN <u>Reese</u>

**A. Questionable Work Practices/Actions Taken/Recommendations**

While trying to replace nitrogen bottles to the Unit 3 Main Steam Isolation Valve Back-up System, six different nitrogen bottles were brought to the turbine deck with leaks. Three leaked from the threads where the valve screwed in and three leaked from the weld itself. I went to the gas house and surveyed all the bottles I could get to for a hydrostatic test date. I found about 1/3 of them with a greater than 10 year date. Many looked to be in very bad condition, (rusty, chipped and so on). I brought this matter up about a year ago and was assured that all the bottles would be hydroed that were out-of-date. I think this is a very hazardous condition for the safety of both personnel and equipment. I recommend that all bottles be checked immediately and those found to be out of the legal required hydrostatic test date time be immediately removed from the gas house and be hydroed or disposed of.

**B. Areas for Improvement/Recommendations/Actions Taken**

No comment

**C. Good Practices/Professionalism Observed**

No comment

Reviewed By L.W. Pearce Date 5/31/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_



1972  
1973



Date Started 05/29/88

# PSN MOS

Date Finished 05/29/88

Initiating PSN Salkeld PSN \_\_\_\_\_ Completed PSN Salkeld

Initiating APSN Guyer APSN \_\_\_\_\_ Completed APSN Guyer

**A. Questionable Work Practices/Actions Taken/Recommendations**

None

**B. Areas for Improvement/Recommendations/Actions Taken**

None

**C. Good Practices/Professionalism Observed**

Yes

Reviewed By *P.W. Barre* Date 5/31/88 Actions Completed \_\_\_\_\_ Date \_\_\_\_\_

222  
222



222

222

THE SOUTH TEXAS PROJECT PARTICIPATION AGREEMENT AMENDED  
HEREBY IS SUBJECT TO ARBITRATION  
UNDER THE TEXAS GENERAL ARBITRATION ACT,  
ARTICLE 224, ET SEQ., OF THE TEXAS CIVIL STATUTES

SOUTH TEXAS PROJECT  
AMENDMENT NO. 3 TO  
PARTICIPATION AGREEMENT

1. PARTIES: The parties to this Amendment No. 3 are: CITY OF SAN ANTONIO, acting through the City Public Service Board of San Antonio, hereinafter referred to as "San Antonio"; CENTRAL POWER AND LIGHT COMPANY, a Texas corporation, hereinafter referred to as "Central"; HOUSTON LIGHTING & POWER COMPANY, a Texas corporation, hereinafter referred to as "Houston"; and CITY OF AUSTIN, hereinafter referred to as "Austin".

2. RECITALS: San Antonio, Central and Houston executed as of July 1, 1973, the South Texas Project Participation Agreement providing for the licensing, construction, operation and maintenance of jointly owned and operated electric generation facilities to be known as the South Texas Project. San Antonio, Central, Houston and Austin executed: (i) Amendment No. 1 to the Participation Agreement effective as of December 1, 1973, whereby Austin became a Participant in the South Texas Project, and (ii)



Amendment No. 2 to the Participation Agreement effective as of March 1, 1975, whereby additional modifications were made in the terms and provisions of the Participation Agreement. Said Participation Agreement executed as of July 1, 1973, as amended by said Amendment No. 1 and said Amendment No. 2, is hereinafter referred to as the "Participation Agreement." Contemporaneously herewith San Antonio, Central, Houston and Austin are executing the South Texas Project Nuclear Property Insurance Project Agreement effective as of January 1, 1986.

3. AGREEMENT: The parties hereto, in consideration of the mutual covenants contained herein, agree as follows:

4. AMENDMENTS TO PARTICIPATION AGREEMENT:

The Participation Agreement is amended as follows:

4.1 Section 10.2.9 of the Participation Agreement is amended to read as follows:

"Pending action by the Management Committee on insurance recommendations, procure insurance binders providing such coverage as the Project Manager believes necessary and except as otherwise provided in a Project Agreement other than this Participation Agreement, upon action by the Management Committee, procure and maintain in force as permanent insurance all Project Insurance determined necessary by the Management Committee, furnishing, or causing to be furnished, to each Participant

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.



evidence of the existence of such insurance as required by Section 20 hereof; and"

4.2 Section 1.6 of Exhibit E to the Participation Agreement is amended to read as follows:

"All expenses of procuring and maintaining policies of Project Insurance, excluding, however, expenses of procuring and maintaining policies of insurance pursuant to the terms and provisions of any Project Agreement other than this Participation Agreement."

5. INCORPORATION FROM PARTICIPATION AGREEMENT:

5.1 The definitions of terms contained in Section 4 of the Participation Agreement, entitled "Definitions," are incorporated herein by reference and such terms, to the extent used in this Amendment No. 3, shall have the meanings prescribed in said Section 4 of the Participation Agreement.

6. EFFECTIVE DATE:

6.1 Upon the execution of a counterpart of this Amendment No. 3 by a duly authorized officer or representative of each party hereto, this Amendment No. 3 shall become effective as of the 1st day of January, 1986.



4



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●

2

IN WITNESS WHEREOF, the parties hereto have caused  
this Amendment No. 3 to be executed as of the effective date  
hereof.

ATTEST:

Howard Deemer  
Secretary

CITY OF SAN ANTONIO,  
acting through the City Public  
Service Board of San Antonio

By

H. H. Huie  
General Manager

ATTEST:

Walter A. Ratcliff  
Secretary  
WALTER A. RATCLIFF

CENTRAL POWER AND LIGHT COMPANY

By

E. R. Brooks  
President and Chief Executive Officer ERM

HOUSTON LIGHTING & POWER COMPANY

By

Frank C. Gemar  
Chairman of the Board and  
Chief Executive Officer

ATTEST:

Frank C. Gemar  
ASST. Secretary  
FRANK C. GEMAR

CITY OF AUSTIN

ATTEST:

By

Jay Canoso  
City Manager

Approved as to  
form - JG

010MDSAW/037E01  
JCWlw;AP  
05/09/86-1