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50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH.NAME AUTHOR AFFILIATION
CONWAY,W.F. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
GRACE,J.N. Region 2, Ofc of the Director

See Rpt.

SUBJECT: Forwards summary of mgt on shift weekly repts.

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L-88-262

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 Shift Reports are also being submitted.

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

Very truly yours,

for W. F. Conway
Senior Vice President - Nuclear

WFC/SDF/gp

Attachment - sent to RP

Original To: Region 2

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

D036 1/1

IE36

MANAGEMENT ON SHIFT (MOS)

WEEK STARTING: 06/06/88

WEEKLY SUMMARY REPORT

Four MOS Observers were on shift. Paul Geddes, Westinghouse Electric Corporation (06/06-12/88, days); Andrew P. Drake, Westinghouse Electric Corporation (06/06-13/88, evenings); Daniel E. Meils, Turkey Point Plant Chemistry Supervisor (06/06-08/88, evenings); and Larry L. Thomas, Turkey Point Nuclear Plant Outage Manager (06/09-13/88, evenings).

Both Units 3 and 4 operated at 100% power throughout the reporting period.

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

One questionable work practice was identified by the MOS Observers concerning poor maintenance practice which resulted in operating shift supervision preventing I&C specialists from performing work on the wrong train of Reactor Protection.

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

- Perceived weaknesses in the design package for the new Control Room HVAC system.
- Explaining the basis for the Hi-flow trip of the new HVAC system to operations.
- The apparent misplacement of the Control Room Night Order book.
- The excessive number of spurious fire alarms during inclement weather.
- The reliability of the access control gates inside the Control Room.
- Excessive short runs of SI pumps to fill the SI accumulators.
- The cancellation of PWOs without concurrence by the originator.

8807060062

ATTACHMENT: MOS DAILY REPORTS

MANAGEMENT ON SHIFT (MOS)

WEEKLY SUMMARY REPORT

WEEK STARTING: 06/06/88

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

The PSNs identified three questionable work practices. The concerns dealt with control of personnel working in a potentially dangerous area (skyclimber over Main Steam platform), identification of correct train to be worked on PWOs, and returning equipment to service without a complete release of the associated clearance.

The PSN's noted nine recommendations and areas for improvement. These comments and suggestions involved:

- A suggestion to design and install protective cones over weather-sensitive fire detectors. The suggestion included a proposed design.
- A request for a flow balance on Moisture Separator Reheater drains.
- A recommendation for a weekly plant walkdown to identify steam leaks.
- The lack of reliability of the Waste Gas compressors.
- Two concerns related to reliability of the Nuclear Jobs Planning System (NJPS) computer on backshifts.
- A concern expressed about feedback to the Control Room for non-conformance report (NCR) dispositions which render equipment inoperable and the required actions to be taken by Technical Specifications for the inoperable equipment.
- A repeat of an earlier (5/20/88) concern on repair of a fault sense recorder. The original concern is still under evaluation.
- A request for engineering evaluation of the D.C. Bus ground location method.

ATTACHMENT: MOS DAILY REPORTS

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear

Date: 06/06/88

From: Paul Geddes
(MOS Observer)

Shift: ☒ Day ☐ Night

A. Plant evolutions observed

- Both units, 100% power
- Various shift meetings
- Various routine operations

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None at this time.

E. Professionalism, Summary of Shift, Comments

No unprofessional behavior observed

Completed By: Paul Geddes
MOS Observer

Date: 06/06/88

Reviewed By: [signature]
Operations Superintendent- Nuclear

Date: 6/7/88

Management Review By: [signature] 6/7/88 [signature] 6/7/88 _____ /
PM-N Date SVP Date VP Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear

Date: 06/06-07/88

From: Andrew P. Drake
(MOS Observer)

Shift: ☐ Day ☒ Night

A. Plant evolutions observed

- Unit 3, 100% power
- Unit 4, 100% power
- End of shift briefing - peak shift
- Peak/mid shift turnover
- Mid shift briefing
- Normal operations

B. Immediate safety problems

None observed

C. Questionable work practices

None observed

D. Areas for improvement

None observed

E. Professionalism, Summary of Shift, Comments

No comments

Completed By: Andrew P. Drake
MOS Observer

Date: 06/06-07/88

Reviewed By: [illegible]
Operations Superintendent- Nuclear

Date: 6/7/88

Management [illegible]

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/06-07/88

From: Daniel Meils (MOS Observer) Shift: ☐ Day ☒ Night

A. Plant evolutions observed

- Dual Unit 100% operations
- Tour - Radiation Controlled area, Auxiliary Building, Power Block, Water Treatment Plant
- Troubleshooting - Control Room Normal Air Intake Radiation Monitor Channel A

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

While observing troubleshooting of Control Room Normal Air Intake Radiation Monitor Channel A - a lengthy disussion ensued with the Startup Supervisor on shift. From this discussion several problems were noted:

1. Initial design of the whole package was weak.
2. Vendor-supplied equipment had several errors as provided.
3. Startup does not have direct access to Instrumentation and Control workers to perform startup verifications. This greatly impedes Startup's ability to perform its function.

Improvements:

1. Evaluate this design package to determine where we failed. Then fix it.
2. Hold vendors accountable for supplying correct parts.
3. Get budget approval for Startup to hire several I&C workers to perform startup verifications.

E. Professionalim, Summary of Shift, Comments

Quiet well run shifts.

Completed By: Daniel Meils, MOS Observer Date: 06/06-07/88

Reviewed By: [signature], Operations Superintendent- Nuclear Date: 6/7/88

Management [signature] [signature] [signature] [signature]

Date 06/06/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

1. A constant problem is experienced with the Appendix "R" ultraviolet and infrared fire detector which has been addressed numerous times by our Control Room operating staff. When heavy rains or dry dusty weather occur, the lens devices of these detectors become either covered with water droplets or covered with dust. The detector sets off the alarm on Control Room Fire panel C 39 A, which is not only erroneous but annoying due to the continuous intermittent alarm and buzzer.

   Recommendations: (See drawing) Recommend that these type detectors have cones mounted around the lens which do not inhibit the detector's field of vision, however create a block to any water instrusion, and an air block to most particulate suspended in the air environment.

   Actions taken: On 6/06/88, declared Unit 4 Intake Fire Detection Alarm Point 26 out-of-service and hung Fire Impairment tag.

2. NJPS (Nuclear Job Planning System) is probably one of our most important tools in the Nuclear Control Room. On most weekends, holidays, and many backshifts it can be expected to become inoperable and lock-up, then it is a painstaking process to locate someone to bring it back on the line. Most of these times the PSN contacts a tape recorder, whose owner in many cases never answers back till the next scheduled employee work day, which can be three days up the road.

   Recommendation: Appoint a duty computer programmer who is responsible for the machine 24 hours a day and have this person or persons carry a beeper, supply a home phone number and have a duty call list placed in the PSN duty call book.

3. 3A Reheater Drain Tank outlet flow orifice (FE-5120) outlet flange has steam issuing thru the lagging and is becoming worse. PWO #312347 was issued on November 7, 1987 when the leak started. Unit 3 was at cold shutdown at this time and the secondary was cold until 12/20/87. The leak was not repaired during the outage nor has been repaired to this day. Maintenance repaired two other leaks within five feet of this leak; however, no attention was paid to this steam leak by any of the individuals in the area. Fermanite has been to the plant a number of times since Unit 3 returned to service, however, this leak has not been placed on the Fermanite list.

Reviewed By [signature] Date 6/17/88 Actions Completed _____ Date _____

Continuation Page

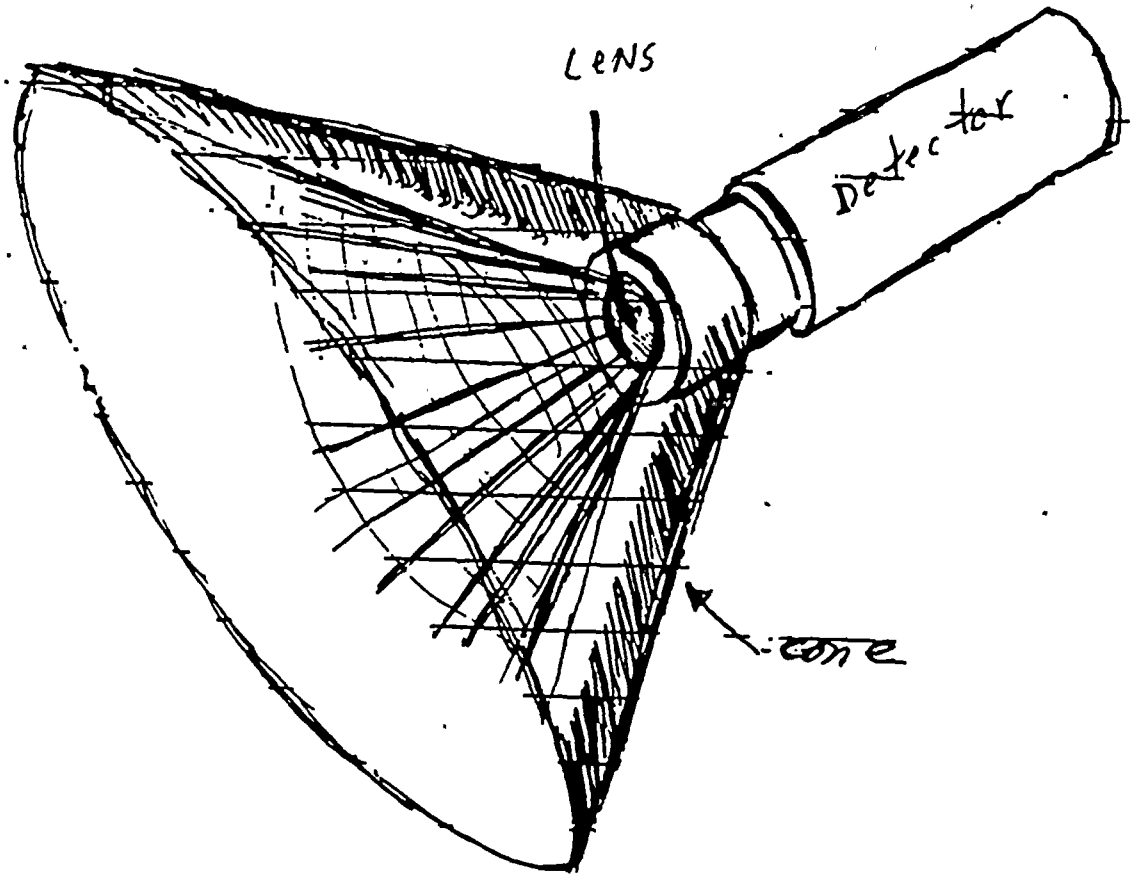
Recommendations: At least once per working week (no lesser frequency) the Maintenance Superintendent, Operations (NTO), and Mechanical GEMS Coordinator shall make a tour of the Secondary Steam Systems (full tour). They shall document all leaks and those with no PWO shall be identified by Mechanical GEMS Coordinator who will be responsible to initiate a PWO. All leaks found on line shall be evaluated for on-line fix without utilizing the usual SNOW (Short Notice Outage Work) network approach.

If attention to secondary leaks is put on the same level as primary leaks i.e., boric acid Unit 4 vessel head, etc., the plant may receive less attention from our regulators, INPO, etc. as they tour our secondary for numerous reasons, and the individuals working our secondary will feel a sense of safety as they perform their jobs.

C. **Good Practices/Professionalism Observed**

1. The cleaning efforts of contractor employee Barbara Jones have been above and beyond the call of duty. She is very concerned about the cleanliness of our Control Room and it has become evident from her efforts, following the shift she is working. Please supply her with the tools she needs to her job efficiently i.e., a quiet vacuum cleaner.

Continuation Page



Date 06/06-07/88	**Shift Report**	Shift Mid

Shift Management

SN Wogan APSN Singer NWE Vetromile

A. Questionable Work Practices/Actions Taken/Recommendations

None observed

B. Areas for Improvement/Recommendations/Actions Taken

None at this report

C. Good Practices/Professionalism Observed

Units 3 and 4 at 100% power

Reviewed By D.M. Piana **Date** 6/7/88 **Actions Completed** _____ **Date** _____

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/07/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. **Plant evolutions observed**

- Both units, 100% power
- Various shift meetings
- Auxiliary Feedwater Test
- Reactor Protection Test
- Plant Tour

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Areas for improvement**

None.

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

No problems observed

Completed By: Paul Geddes, *MOS Observer* Date: 06/07/88

Reviewed By: [signature], *Operations Superintendent- Nuclear* Date: 6/8/88

Management Review By: [signature] *PM-N* 6/8/88 *Date* [signature] *SVP* 6/8/88 *Date* [signature] *VP* 6/8/88 *Date*

06/07/88

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/07-08/88

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

A. Plant evolutions observed

- Unit 3, 100% power
- Unit 4, 100% power
- Peak Shift End of shift briefing
- Peak/mid shift turnover
- Mid shift briefing
- Normal operations
- Unit 3 Reactor Protection Trip Logic Test
- Unit 3B Emergency Diesel Generator Test

B. Immediate safety problems

None observed

C. Questionable work practices

None observed

D. Areas for improvement

1. Performance of Reactor Protection Test on peak shift identified a Reactor Coolant System flow relay problem on Train "B" (Relay FC-3-416X). A PWO was written (WA880607191835) for repairs. The mid shift I & C crew started to work the PWO and went to the relay cabinet, R34, as identified on the PWO. This however was a Train "A" cabinet. The mid shift NWE was monitoring the work and noticed the incorrect train was about to be worked and took actions to corrrect the error. During discussion with the I & C Supervisor, APSN, and NWE several items were noted on the PWO that could have prevented or reduced the possibility of this occurrence:
   a. The equipment name did not have the train identified on it. This would alert the technician as to the train he is to work on
   b. The wrong relay rack was given, R34 instead of R39. R34 is a Train "A" rack and R39 is Train "B". If item a. had been performed the error would have been more evident.

c. Work description section should identify train of component as well as component. (i.e. "replace Train "B" relay FC-3-416X' instead of 'replace relay FC-3-416X')

d. A single key will open relay cabinets on Train "A" and "B" on both units. If there were a seperate key/lock set for each train on each unit (4keys) then you would be assured that the proper unit and train was being worked on.

e. PWO entered on GEMS should contain train designation to assist in working up PWO package.

2. Night Order Book is no longer in the Control Room

a. Why has it been removed?

b. The turnover sheet no longer requires it to be reviewed. How is information already in it to be transmitted to the crews?

c. How is the type of information found in the book going to be transmitted in the future?

d. The Night Order Book was a good way to pass information on from shift to shift and retain for reference. It should continue to be used for this and not be discontinued.

E. Professionalism, Summary of Shift, Comments

Mid shift NWE performed his job very well as was demonstrated by the "catch" of the train error on relay FC-3-416X work.

Excessive animal and other sounds effects were present on the plant PA tonight. This type of activity had decreased over the last few months.

Completed By: Andrew P. Drake, *MOS Observer* Date: 06/06-07/88

Reviewed By: *Operations Superintendent- Nuclear* Date: 6/8/88

Management Review By: PM:N 6/8/88 Date; SVP 6/8/88 Date; VP 6/8/88 Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear

Date: 06/07-08/88

From: Daniel Meils
(MOS Observer)

Shift: ☐ Day ☒ Night

A. **Plant evolutions observed**

- Shift Turnover, Control Room Ventilation Radiation Monitor troubleshooting, 3-OSP-049.1
- Tour - Radiation Controlled Area, Auxiliary Building, Power Block

B. **Immediate safety problems**

None

C. **Questionable work practices**

While conducting a tour of the work site, the NWE observed the Instrumentation and Control Specialists in the wrong cabinet. They had gained access to Train "A" not Train "B" as required. Upon review of the PWO it was found to indicate the Train "A" panel vs. the Train "B" panel as required.

D. **Areas for improvement**

1. Notify the Human Performance Evaluation System (HPES) of near miss to perform a complete analysis of events surrounding this event. (See C)
   Consider all possible corrective actions to eliminate occurances. (e.g., seperate keys for Train "A" vs. "B".)

2. Repeat alarms (more than 10 in 5 minutes) on the Fire Detection panel C39A must be eliminated immediately. By the end of the shift these alarms had affected the behavior of the whole shift.

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

APSN, NWE, and two RCOs completed a thorough briefing of 3-OSP-049.1 prior to performing the evolution.

Repeat back communications was utilized in the field while conducting 3-OSP-049.1

Completed By: Daniel Meils
MOS Observer

Date: 06/07-08/88

Reviewed By: [signature]
Operations Superintendent- Nuclear

Date: 6/8/88

Management Review By: [signature] 6/8/88, [signature] 6/8/88, [signature] 6/8/88

Date 06/07/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

1. Waste Gas Compressors A & B should always be available to lower vent header pressure or perform Volume Control Tank purges. My experience since being a nuclear operator until now is that either these compressors are a low priority item or they were designed to malfunction once per week. The frequency of these waste gas compressors malfunctioning appears to have increased significantly over the past few years. The problems encountered are seal leaks which gas out the Auxiliary Building, Moisture Seperator level control malfunctions, compressor unloader control valves sticking open, motor breaker and line contactor problems, etc. These compressors are Nash type water seal pumps which incorporate a simple principle to pump gas yet they are basically inefficient and rarely can raise waste gas decay tank pressure above 80 psig.

   Recommendation:
   1. Call in a vendor to analyze this entire system and replace whatever parts are necessary to "make it work".
   2. Send some of our Maintenance people to a school for maintenance/repair of Nash pumps to learn techniques for trouble shooting I&C and mechanical problems.
      Note: This school would be a benefit not only in respect to waste gas compressors but also breathing air compressors which stay inoperable longer during outages than actually operating. They are also Nash type compressors.

2. On 5-20-88 I entered a MOS report on Fault Sense Recorder (Sangamo) continuous operation. I have not as yet received an answer to my question, however if PTN is responsibile for a system fault (blackout) you may be expected to supply some answers and your key piece of equipment is out of service again.
   Actions: Submitted another PWO to allow another temporary fix.
   Recommendations: Repair or replace this equipment.

C. Good Practices/Professionalism Observed

1. Although the Unit 4 Turbine Trip Test was postponed till tomorrow, the Turbine Operator walked down the system and discovered that the Turbine oil pressure light on the front standard indicating the turbine is latched with proper oil pressure is inoperable. He immediately notified the PSN and generated a PWO. The turbine Trip Test will be postponed until this is repaired.

Reviewed By [illegible] Date 6/7/88 Actions Completed _____ Date _____

Date Started 05/20/88	PSN MOS	Date Finished 05/20/88

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/Recommendatins/Actions Taken

The Sangamo Fault Sense Recorder is out of service and has been for over a month. It has run one day at a time from PWO to PWO since Christmas 1987. If an unexplainable line fault occurs which could cause relay action from our plant out into the system relays, PTN would have limited resources to explain how our plant was the cause or non-cause of the system disturbance.

Recommend a total upgrade of our fault sense recorder.

C. Good Practices/Professionalism Observed

Routine operations.

Date 5/22/88 Actions Completed Date

Date 06/07/88	**Shift Report**	Shift DAY

Shift Management

PSN Salkeld APSN Guyer NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

The skyclimber being used for the tendon surveillance was moved above the Main Steam Platform and personnel were working upon it. The Construction Supervisor came to the Control Room to request advance notification if we were going to "release any steam." In fact we were engaged in a load-threatening periodic at that time. It took approximately 40 minutes to get the men out of the skyclimber. We have requested notification prior to placing personnel in areas where operations can affect their safety.

B. Areas for Improvement/Recommendations/Actions Taken

None.

C. Good Practices/Professionalism Observed

Yes

Reviewed By [illegible] **Date** 6/8/88 **Actions Completed** _____ **Date** _____

Date 06/07-08/88	**Shift Report**	Shift Mid

Shift Management

PSN Jones APSN Haley NWE Matuzewski

A. Questionable Work Practices/Actions Taken/Recommendations

During the replacement of relay FC-3-416 the Instrumentation and Control Technicians (I&C Techs) were found to be in the Train "A" racks instead of Train "B". The NWE immediately asked them to get out of the racks. When the NWE signed the PWO he instructed the techs to "THINK "B". The rack they were in is clearly labelled Train A. Although no problem occured the potential was there.
The PWO was not clear as to what train was to be worked on. The PWO specified Rack 34. The correct rack should have been 39. The I&C Techs should not have opened the train "A" rack after being told "THINK "B"". Operations should review PWOs to insure correct information is available as completely as possible. GEMS Coordinators should be aware of train operability when planning Reactor Protection Relay Replacement (PWO attached).

B. Areas for Improvement/Recommendations/Actions Taken

C. Good Practices/Professionalism Observed

Reviewed By [illegible] **Date** 6/8/88 **Actions Completed** _____ **Date** _____

NUCLEAR PLANT
====== DUPLICATE PRINTING ======
WORK ORDER

Plant	Unit	PWO JO SPEC ER	Work Request #
☐ PTN	03	8021 / 63	PRINTING WA880607191835

Component Tag Number	Associated Component	System
FC-3-416		041

Equipment Name Component Description: RCS FLOW LOOP 2 BIO. COMP

Q/C REQUIRED

Defect Work Request: INTERMITANT ACTUATION DURING RX PROTECTION TEST (RELAY IS IN R34 CABLE SPREADING ROOM.

Location: CONTROL ROOM. PROTECTION & CONTROL RACKS | Defective Tag: NONE

Seriousness Reason: OPI ACCEPTANCE CRITERIA 3-094-045.11

NPRDS: 110 Status at Time of Failure | 120 Failure Symptom | 130 Failure Detection

QIP	Rework Job	Why?
	Y	UNKNOWN

By (Originator and Plant Department)	Date	Time	Approved By	Date	LCO
D L EDDINGER / 4	060788	1918	D L EDDINGER	060788	

Lead Maintenance Dept.	170 Priority	180 Unit Condition Required	NPRDS
2	A1	8	Y

Clearance Required (Y or N)	Clearance Number	Rad. Work Permit Required (Y or N)	RWP Number	Safety Class Q-Group
	3-88-06-025	N		SR

10 CFR 50.49 Item (Y or N)	Additional Fire Protection Review (Y or N)	Post Maint. Test Req. (Y or N)	IST Required (Y or N)	FYP PM#
N	N	Y	N	

Manpower Requirements	Work Type 190	Crew	Estimated Manhours	Standard (X)	Assigned To
2.0	5	6	8		JMM

Q.C. Requirements

Work Description:

1. PERFORM I/V PER ATTACH #3 FOR WIRE REMOVAL AND REPLACEMENT.
2. INSURE CHANNEL IS REMOVED FROM SERVICE.
3. REPLACE RELAY FC-3-416X (M&S# 005-59220-8)
4. IF PROBLEMS ARISE CONTACT FS/QC FOR RESOLUTION.
5. PMT: SEE AP 0190.28 STEP 8.1.3
6. REF: 5610-M-430-146

JOURNEYMAN: If TEDB Datasheet attached, verify by observation

Plan Pack Prepared By Date: PAT ROY / 060788

Plan Pack Approval Supervisor Date: PAT ROY / 060788

QC Approval Date: PER TELECON W/E. GUERRA 6/7/88 Patrick Roy

NPS Permission to Start: Date 6/8/88 Time 0306 | LCO Y

NPS Notification of Completion: Date | Time

KEY FIELDS MUST MATCH LOG/USER MASTER LISTING

TRAN CODE	CHARGE LOCN	PLANT	PWO JO SPEC ER	DEPT	CREW	WORK TYPE	ER	ACCOUNT NUMBER	UNIT NO.	EQUIP I.D.	MAJOR EQUIP	MAJOR EQUIP MFR.	MINOR EQUIP	MINOR EQUIP MFR	REASON CAUSE
300	914	W	8021	2	6	5	63	530020	03		RS80	HSS			

OUTAGE CODE	ACTION CODE	OUTAGE START MO	DAY	YR	HOUR	MIN	OUTAGE END MO	DAY	YR	HOUR	MIN	CURTAILED MW	DO NOT HOLD If Outage Code 1, 2, 3, 5 Process Immediately

PROBLEM DEFINITION WORK DESCRIPTION COMMENTS, TAG NUMBER | PRIORITY

A1

Part 1 (Original Copy)

Form 1784N (Stocked) Rev. 8/86

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/08/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. Plant evolutions observed

- Both units, 100% power
- Various meetings
- Reactor Trip Breaker replacement and testing
- Pressurizer pressure surveillance
- "A" Diesel Generator test and return to service

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None

E. Professionalism, Summary of Shift, Comments

Well run shifts

Completed By: Paul Geddes, MOS Observer Date: 06/08/88

Reviewed By: L.W. Pearce, Operations Superintendent- Nuclear Date: 6/9/88

Management Review By: PM-N 6/9/88 Date; SVP 6/9/88 Date; VP / Date

06/08/88

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/08-09/88

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

A. Plant evolutions observed

- Units 3 and 4, 100% power
- End of peak shift briefing
- Peak/mid shift turnover
- Mid shift briefing

B. Immediate safety problems

None observed

C. Questionable work practices

None observed

D. Areas for improvement

No comments

E. Professionalism, Summary of Shift, Comments

1. Dave Taylor discussed training brief 232 on Control Room habitability modifications with the peak and mid shift operators. Having him present the material and be available to answer questions was extremely beneficial to the operators. The use of plant personnel knowledgeable on training brief information should be used as a standard practice when new systems or modifications are presented to the operators.
2. Update on item D.1 of my report on 6/07-08/88 covering Reactor Coolant System flow relay FC-3-416X. The original PWO as entered by the peak shift crew did not contain the rack number (R34). This information was added on during the workup of the work package. It was also noted to the PSN that the original PWO did not contain the train in which the relay was to be worked.

Completed By: Andrew P. Drake (MOS Observer) Date: 06/08-09/88

Reviewed By: [signature] (Operations Superintendent- Nuclear) Date: 6/9/88

Management Review By: [signature] / 6/9/88 (DM-N) Date; [signature] / 6/9/88 (SVP) Date; / (VP) 06/08 Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/08-09/88

From: Daniel Meils (MOS Observer) Shift: ☐ Day ☒ Night

A. Plant evolutions observed

- Dual Unit, 100% power operations
- Nuclear Operator and Turbine Operator rounds
- Standby Feed Pump test
- Tour - Radiation Controlled Area, Power Block, Auxiliary Building, Water Treatment Plant

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None

E. Professionalism, Summary of Shift, Comments

Well run shifts

Completed By: Daniel Meils, MOS Observer Date: 06/08-09/88

Reviewed By: [signature], Operations Superintendent- Nuclear Date: 6/9/88

Management Review By: [signature] 6/9/88 (DM-N) Date; [signature] 6/9/88 (SVP) Date; / (VP) Date; 06/09

Date 06/08/88

Shift Report

Shift Day

Shift Management

PSN Salkeld APSN Guyer NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Good tailboard briefings and coordination between Maintenance Departments and Operations allowed a large number of load-threatening periodics to be done without a problem.

Reviewed By [illegible] Date 6/9/88 Actions Completed _____ Date _____

Date 06/08/88

Shift Report

Shift Mid

Shift Management

PSN Jones APSN Haley NWE

A. Questionable Work Practices/Actions Taken/Recommendations

We've seen a problem as indicated in PSN logs 6/08/88. Maintenance Department requested a Temporary Lift of "A" Emergency Diesel Generator (EDG) to check for radiator leaks and belts during test run of EDG. At 1035 "A" EDG test was completed satisfactorily and the EDG declared back in service. At 1710 it was discovered that clearance was on Temporary Lift. At 1711 "A" EDG was declared back in service after proper release was secured. Recommend that the Maintenance Procedure requires a full release of equipment after their inspections are complete.

B. Areas for Improvement/Recommendatinos/Actions taken

On Unit #3 the steam temperature going to low pressure turbine is approximately 10° lower than what we see on Unit #4. All high level alarms are in for the 4 Moisture Separator Reheaters. We believe that if the Technical Department would do a drain flow balance on the Moisture Separator Reheater Drain system we may be able to gain a few more megawatts.

C. Good Practices/Professionalism Observed

Reviewed By [illegible] Date 6/8/88 Actions Completed _____ Date _____

Date 06/08/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Eddinger

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recomendations/Actions Taken

None

C. Good Practices/Professionalism Observed

1. Routine operations. Good actions by Turbine Operators and RCO's on Unit 3 to alleviate high vibration on Turbine Generator #9 Bearing and troubleshoot Unit #4 Main Generator Ground Annunciator during heavy rainstorm.
2. Excellent management response to observing backshift operations/maintenance activities. Plant tours and open conversation with operators and maintenance personnel has become a daily routine with our Site Vice President and Plant Manager. This is respected and appreciated by our entire staff.

Reviewed By [illegible] Date 6/9/88 Actions Completed _____ Date _____

0:ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/09/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. **Plant evolutions observed**

- Both units, 100% power
- Steam Generator level surveillance
- "B" Auxiliary Feed Pump test

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Areas for improvement**

None

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

No specific response is required, but I want to re-emphasize that the waste gas compressors need to be fixed. The Auxiliary Building was gassed again today. This is a personnel hazard (radioactive gas) and is an unsatisfactory situation.

Completed By: Paul Geddes *MOS Observer* Date: 06/09/88

Reviewed By: [signature] *Operations Superintendent - Nuclear* Date: 6/10/88

Management Review By: [signature] 6/10/88 *PM-N* *Date* [signature] 6/10/88 *SVP* *Date* [signature] 6/10/88 *VP* *Date* 06/09/88

0:ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/09-10/88

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

A. **Plant evolutions observed**

- Steady state operations
- Pre-shift briefing
- Emergency Response Team (ERT) on Control Room Ventilation
- 0-OSP-025.1, Interlock Test Control Room Heating Ventilating and Air Conditioning

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Areas for improvement**

None

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

ERT functioned very well, all departments very cooperative. Most likely prevented plant shutdown.

Completed By: L. L. Thomas MOS Observer Date: 06/09-10/88

Reviewed By: [illegible] Operations Superintendent-Nuclear Date: 6/10/88

Management [illegible] 6/10/88 [illegible] 6/10/88

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear

Date: 06/09-10/88

From: Andrew P. Drake
(MOS Observer)

Shift: ☐ Day ☒ Night

A. **Plant evolutions observed**

- Units 3 and 4, 100% power normal operations
- End of peak shift briefing
- Peak-mid shift turnover
- Beginning mid shift briefing
- Continuation of Control Room Heating, Ventilation and Air Conditioning system testing
- Tour of Turbine Building

B. **Immediate safety problems**

None observed

C. **Questionable work practices**

None observed

D. **Areas for improvement**

No comments

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

No comments

Completed By: Andrew P. Drake
MOS Observer

Date: 06/09-10/88

Reviewed By: [illegible]
Operations Superintendent- Nuclear

Date: 6/10/88

Management [illegible] 6/10/88 [illegible] 6/10/88

Date 06/09/88

Shift Report

Shift Day

Shift Management

PSN Schimkus APSN Guyer NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Plant Manager interaction with various support groups questioning progress being made on hot items is receiving a thumbs up by the operators. This is a definite step forward to enhance our inter-departmental communications. We appreciate the feed-back we are receiving.

Reviewed By [illegible] Date 6/10/88 Actions Completed _____ Date _____

Date 06/09/88

Shift Report

Shift Peak

Shift Management

PSN .Schimkus APSN Murphy NWE Matuzewski

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Routine operations. Good progress in accomplishing all shift objectives stated at pre-shift briefing.

Reviewed By [illegible] Date 6/10/88 Actions Completed _____ Date _____

Date 06/10/88

Shift Report

Shift Mid

Shift Management

PSN Jones APSN Haley NWE

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Reviewed By [illegible] Date 6/10/88 Actions Completed _____ Date _____

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/10/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. Plant evolutions observed

- Both units, 100% power
- Rod position indication testing
- Radiological Controlled Area tour
- Various meetings
- 480 Volt undervoltage relay testing

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None

E. Professionalism, Summary of Shift, Comments

Well run shifts

Completed By: Paul Geddes, MOS Observer Date: 06/10/88

Reviewed By: [signature], Operations Superintendent- Nuclear Date: 6/13/88

Management Review By: [signature] / 6/13/88 PM-N Date; [signature] / 6/13/88 SVP Date; ____ / ____ VP Date 06/10/88

0:ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/10-11/8

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

A. Plant evolutions observed

- Steady state operations, 100% power
- End of shift meeting
- Shift turnover and briefing
- 4-OSP-200.3
- 3-OSP-200.3

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None

E. Professionalism, Summary of Shift, Comments

Problem with 3A Reactor Coolant Pump #1 seal leakoff flow was handled well by the mid shift.

Completed By: L. L. Thomas, MOS Observer Date: 06/10-11/88

Reviewed By: L W Price, Operations Superintendent- Nuclear Date: 6/13/88

Management Review By: [illegible] 6/13/88 [illegible] 6/13/88 / VP / Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/10-11/88

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

A. **Plant evolutions observed**

- Units 3 and 4, 100% power
- Normal operations

B. **Immediate safety problems**

None observed

C. **Questionable work practices**

None observed

D. **Areas for improvement**

No comment

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

No comments

Completed By: Andrew P. Drake, MOS Observer Date: 06/10-11/88

Reviewed By: [signature], Operations Superintendent- Nuclear Date: 6/13/88

Management Review By: [signature] 6/13/88 Date [signature] 6/13/88 Date VP 06/10 Date

Date 06/10/88	**Shift Report**	Shift Day

Shift Management

PSN Wogan APSN Singer NWE Vetromile

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

None

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

None

C. **Good Practices/Professionalism Observed**

Units 3 and 4 at 100% power.

Reviewed By [illegible] Date 6/13/88 Actions Completed _____ Date _____

Date 06/10/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

When a lack of communication occurred on status of 3A Condensate Pump to establish adequate seal water pressure and vendor recommendations were not received, the APSN contacted the Maintenance Superintendant who immediately showed concern and within one hour had activated additional maintenance personnel to find the root cause. His additional orders were to re-disassemble the mechanical seal if no apparent root cause was found. Excellent support by Mechanical Maintenance.

Reviewed By [illegible] Date 6/12/88 Actions Completed _____ Date _____

Date 06/11/88

Shift Report

Shift Mid

Shift Management

PSN Jones APSN Haley NWE

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Reviewed By [illegible] Date 6/13/88 Actions Completed _____ Date _____

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/11/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. Plant evolutions observed

- Both units at 100% power
- Volume Control Tank purge
- 3A Condensate pump return to service
- Reassembly of 3C Steam Generator Blowdown Valve
- Plant tour

B. Immediate safety problems

None

C. Questionable work practices

None

D. Areas for improvement

None

E. Professionalism, Summary of Shift, Comments

Quiet shift. The Volume Control Tank purge did not gas the Auxiliary Building, which indicates the problem may have been identified.

Completed By: Paul Geddes, MOS Observer Date: 06/11/88

Reviewed By: [signature], Operations Superintendent-Nuclear Date: 6/13/88

Management Review By: [signature] 6/13/88 PM-N Date [signature] 6/13/88 SVP Date VP 06/11/88 Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/11-12/88

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

A. **Plant evolutions observed**

- Steady state operations
- Shift turnover and shift briefing
- Placed 3C steam Generator Blowdown valve back-in-service tested satisfactorily.

B. **Immediate safety problems**

None

C. **Questionable work practices**

None observed

D. **Areas for improvement**

None

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

None

Completed By: L. L. Thomas, MOS Observer Date: 06/11-12/88

Reviewed By: R.W. Pollock, Operations Superintendent- Nuclear Date: 6/13/88

Management Review By: [illegible] 6/13/88 Date; SVP [illegible] 6/13/88 Date; VP [illegible] 06/11-12 Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/11-12/88

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

A. **Plant evolutions observed**

- Units 3 and 4, 100% power
- Normal operations

B. **Immediate safety problems**

None observed

C. **Questionable work practices**

None observed

D. **Areas for improvement**

No comments

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

Nice quiet shifts.

Completed By: Andrew P. Drake, MOS Observer Date: 06/10-11/88

Reviewed By: [signature], Operations Superintendent- Nuclear Date: 6/13/88

Management Review By: [signature] 6/13/88 [signature] 6/13/88 ____ / ____
DM N Date SVP Date VP Date

Date 06/11/88

Shift Report

Shift Day

Shift Management

PSN Wogan APSN Singer NWE Vetromile

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

Regulation and compliance group response to operability of RHR/PASS valves on NCR 88-0065 was less than satisfactory on 6/10/88. We recommend a closer working relationship concerning safety related equipment, Tech. Spec. items and operability concerns. It seems like Engineering Group, Licensing Group and Operations speak a different language when the words "operability concern" are spoken.

C. Good Practices/Professionalism Observed

Normal

Reviewed By [illegible] Date 6/13/88 Actions Completed _____ Date _____

Date 06/11/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

A totally dedicated effort was observed by the PSN on two pieces of major plant equipment. Thanks to the Maintenance Superintendant and his staff, 3A Condensate pump was returned to service following problems with establishing proper seal water pressure. Also Unit 3 Containment Boundary Valve CV-3-6275C (3C Steam Generator Blowdown isolation) was disassembled to prove no problem existed internally to cause valve seat binding. Maintenance did discover a discrepancy in valve shaft length which is the probable cause of over driving valve into seats upon closure. Operations appreciates your support.

Reviewed By [illegible] Date 6/13/88 Actions Completed _____ Date _____

Date 06/12/88

Shift Report

Shift Mid

Shift Management

PSN Jones APSN Haley NWE

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Reviewed By [illegible] Date [illegible] Actions Completed _____ Date _____

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/12/88

From: Paul Geddes (MOS Observer) Shift: ☒ Day ☐ Night

A. **Plant evolutions observed**

- Both Units, 100% power
- 2 shift meetings
- Plant tour

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Areas for improvement**

None

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

Uneventful shift

Completed By: Paul Geddes, MOS Observer Date: 06/12/88

Reviewed By: [signature], Operations Superintendent - Nuclear Date: 6/13/88

Management Review By: [signature] 6/12/88 PM-N Date; [signature] 6/13/88 SVP Date; VP Date 06/12/88

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear Date: 06/12-13/88

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

A. **Plant evolutions observed**

- Shift briefings and turnover
- Steady state operations
- 4-OSP-059.2 Intermediate Range Nuclear Instrumentation Analog channel operational test

B. **Immediate safety problems**

None

C. **Questionable work practices**

None

D. **Areas for improvement**

None

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

Good immediate action by midshift NWE on decreasing instrument air pressure (T-3 relief valve lifted).

Completed By: L. L. Thomas (MOS Observer) Date: 06/12-13/88

Reviewed By: [signature] (Operations Superintendent-Nuclear) Date: 6/13/88

Management Review By: [signature] 6/13/88 (PM-N) Date [signature] 6/13/88 (SVP) Date / (VP) Date

0-ADM-019	Management on Shift (MOS) MOS DAILY REPORT	Page 1

To: Operations Superintendent - Nuclear

Date: 06/12-13/88

From. Andrew P. Drake
(MOS Observer)

Shift: ☐ Day
☒ Night

A. Plant evolutions observed

- Units 3 and 4, 100% power
- Normal operations
- Intermediate Range Channel Periodics on both units
- End of peak shift briefing
- Peak to mid shift turnover
- Mid shift briefing

B. Immediate safety problems

None observed

C. Questionable work practices

None observed

D. Areas for improvement

1. Plant Work Orders (PWO's) are still being cancelled without adequate checks and/or work being performed. PWO's should only be cancelled by the Originators immediate supervisor and only after consulting with the originator. If the originator does not agree with cancellation the PWO should be left active and additional measures looked into (i.e., engineering evaluation, monitoring equipment trends, etc.)
2. The entrance gates in the Control Room (particularly the one by the Nuclear Watch Engineer's office) should be removed. They (one or more) are always broken. The idea of restricting access to the control Room is good, however, these gates are not suitable for this control function.
3. Training needs to state the correct basis for the "Hi Flow" trip in the new Control Room Heating Ventilation and Air Conditioning system recently turned over to operations. The operators have heard two reasons 1) Hi flow would suck the filters out of position, 2) Hi flow will decrease the Iodine removal capability of the filters. Both sound reasonable. Which, if either, is correct?
4. Plant Engineering needs to look at the daily (sometimes twice a day) fill of accumulators on Units 3 and 4. The Safety Injection pumps are started and run for only about 1 minute (enough to fill the accumulators to clear the low level alarms) and then shutdown. This would mean a pump could experience more than 100 start/stop cycles with an average run time of about one minute. a) What effect is this going to have on the pump's reliability? b) What plans are being made to permanently stop the accumulator leaks so this evolution is not a daily occurence?

E. Professionalism, Summary of Shift, Comments

1. These last seven days I have observed more cooperation and team work between Operations, Mechanical Maintenance, Instrumentation and Control, Chemistry, Health Physics and other personnel than on any of my earlier trips. While breakdowns in communications still occur, I have observed several instances where people are trying to correct and prevent additional cases.

Completed By: Andrew P. Drake — MOS Observer — Date: 06/12-13/88

Reviewed By: L.W. Pearce — Operations Superintendent - Nuclear — Date: 6/13/88

Management Review By: PM-N — Date 6/13/88 — SVP — Date 6/13/88 — VP — Date 06/12-13/88

Date 06/12/88

Shift Report

Shift Day

Shift Management

SN Wogan APSN Singer NWE Vetromile

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

None

C. Good Practices/Professionalism Observed

Maintenance support and Technical support on Saturday 6/11/88 was good and accomplished everything they were tasked with i.e., blowdown valve Unit 3 and gas leakage in Auxiliary Building.

Reviewed By [illegible] Date 6/12/88 Actions Completed _____ Date _____

Date 06/12/88

Shift Report

Shift Peak

Shift Management

PSN Schimkus APSN Murphy NWE Spence

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendaions/Actions Taken

1. PSN (Schimkus) is offering an apology for a shift report on 6/6/88 concerning Nuclear Job Planning System and inability to contact individuals necessary to ensure proper operation of the system on weekends, holidays and backshifts. The report had validity, however the corporate NJPS system planners were not the problem. After receiving some feedback I did some research and found that our corporate NJPS people have more than adequately supplied phone numbers and 24 hour service for trouble and breakdowns. The root cause of my problem points to the inability to obtain the "help" phone number directly from the computer terminal screen when both of my terminals become locked up, and no other terminals are available on weekends, holidays, and backshifts. Other problems discovered on-site were:

   A. Turkey Point Nuclear has no appointed duty call person for NJPS and there is no directive to have the PTN NJPS Coordinator supply this, with beeper responsibilities.
   B. The PSN NJPS has erroneous or outdated information, "Tape Stuck" to the terminal which indicates a phone number to call for problems.
   C. The PSN Duty Call Supervisor book has an outdated sheet with erroneous phone numbers and area codes for contact of NJPS individuals at the General Office. Note: A new letter dated 5/06/88 was sent to the plant but didn't get entered in our Duty Call Book.

   I have submitted an interoffice memo to the Operations Supervisor and it is attached to this report. It offers recommendations to alleviate some of the confusion.

   My apologies to the corporate NJPS personnel as this was in in-plant problem. (This is additional information for CTRAC item 88-1216.)

2. The plant 125 volt D.C. Bus's only have one method to detect D.C. grounds. An alarm annunciates showing a D.C. bus ground. The following actions are to utilize ONOP-9608.1 and open any breaker which can cause the ground while not opening breakers which can cause unit trip. We have approximately 50 - 60 loads on each bus. We need Engineering to supply a method to sense individual grounds on a single bus without opening breakers until the ground disappears.
   Actions: Submit R.E.A. to incorporate a fix or plant change.

Reviewed By [illegible] Date [illegible] Actions Completed _____ Date _____

Continuation Page

C. Good Practices/Professionalism Observed

Observed a good pre-shift meeting where I&C Supervisor requested assistance from NWE to troubleshoot a possible problem with inadequate intake screen spray water pressure. The I&C Supervisor did this on his own, following the ANPO on shift raising concern about the problem. This is what I consider good communications.

Date 6/13/88	**Shift Report**	Shift Mid

Shift Management

N Jones APSN Haley NWE

A. Questionable Work Practices/Actions Taken/Recommendations

None

B. Areas for Improvement/Recommendations/Actions Taken

Provision should be made to have sufficient Hagan Modules set up to replace any that fail within 24 hours of failure. We have had a failed module since steam generator level and protection periodic was started on 6/09/88, Thursday. This has left us in a precarious position over the weekend with one channel of protection in the tripped mode.

C. Good Practices/Professionalism Observed

Reviewed By [illegible] Date 6/15/88 Actions Completed _____ Date _____