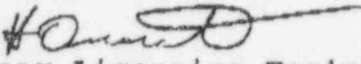


TO: J. White
NRC Region 1 Section Chief

FROM: H. Onorato 
PSE&G Nuclear Licensing Engineer

During the Enforcement Conference of April 6, 1993, several documents were discussed. PSE&G is providing copies of the documents. The documents included are:

- Nucleonics Week article - distributed to Fire Protection and PTI personnel on May 18, 1992
- PTI Memo to Fire Watches - dated January 10, 1990
- PTI Memo to Fire Watches - dated July 2, 1992
- Copy of a set of Post Orders

We hope that these documents will assist you in reviewing our presentation. Should you have any questions, please contact me at (609) 339-1488. Thank you

NPCC's plans for the eighth five-year plan (1992 to 1996) include, apart from the two Tarapur units, another two 500-MW units at Kota in Rajasthan and four 235-MW reactors at Kaiga in southern Karnataka state and Kakrapar in eastern Orissa state.

The two 1,000-MW PWRs originally proposed to be built with assistance from the former Soviet Union are in limbo. "You can consider it standstill," Chatterjee said.

—Neel Parri, New Delhi

UTILITIES CRACK DOWN ON WORKERS WHO FALSIFY INSPECTION REPORTS

U.S. nuclear utilities are taking a closer look at the reporting practices of their non-safety, auxiliary operators after an independent probe by New Hampshire Yankee, operator of the Seabrook plant, found Seabrook employees had falsified inspection logs.

Thirteen Seabrook workers were suspended for falsely logging in inspections they never performed. Of the 13, nine entered a remedial training program and four resigned. Auxiliary operators are technicians who are dispatched by control room operators to various parts of the plant to check equipment or do routine inspections.

Other utilities, which heard about the Seabrook incident via the Institute for Nuclear Power Operations' (INPO) information network, initiated similar probes, comparing auxiliary operator logs with computerized security access records to controlled areas where the inspections take place.

Several utilities' independent investigations have prompted disciplinary actions. Northeast Utilities Co. (NU) put seven workers on leave at the company's three-unit Millstone station for inaccurately logging their activities. GPU Nuclear Corp. suspended five equipment operators at Oyster Creek for similar violations.

Public Service Electric & Gas Co. (PSE&G) and Washington Public Power Supply System (WPPSS) said this week independent review teams are looking at operating logs at Salem-1 and -2 and WNP-2, respectively, but have not yet reached any conclusions.

James Partlow, NRC's associate director for projects at the Office of Nuclear Reactor Regulation, told Nucleonics Week that an information notice on the Seabrook findings should be made public later this week, but will not require utilities to take any actions.

"I would say (log falsification) is potentially very serious," Partlow said. "To have that kind of attitude, that approach to business, is very serious to our mind. We rely upon the utility, and the utility relies upon its people, to carry out certain procedures, and rounds, inspections and log-keeping are part of that experience. We don't like to see a chink in that armor at all."

Partlow said the forthcoming information notice, titled "Falsification of Plant Records," will also remind utility officials that NRC has in place regulations dealing with willful violations of agency requirements, which can carry punitive damages not just against utilities but against individual perpetrators.

NUCLEONICS WEEK — April 23, 1992

New Hampshire Yankee on April 1 filed with NRC a 101-page summary report of its independent review team's findings, which identified as root causes failure of the auxiliary workers to follow procedures and failure of management to apply uniformly the utility's procedure compliance policy. New Hampshire Yankee President Ted Feigenbaum said the utility has taken "aggressive action to ensure work activities and documentation are being done properly."

NU spokesman Anthony Castagno says NU's independent probe of Millstone and Connecticut Yankee logs involves looking at the records kept by some 160 plant equipment operators. The company first reported suspending an auxiliary operator on April 3 after company officials found he failed "to properly complete one of the required visual inspections of equipment and for inaccurately logging his activities."

In a press release earlier this month, NU said its internal review also found potential discrepancies in the records of two auxiliary operators at Millstone-1 and -2. A review of the logs at Connecticut Yankee revealed no missed inspections, NU said.

Last week, Castagno said NU has placed seven workers on leave for log discrepancies, three each at Millstone-1 and -2, and one at Millstone-3. All Millstone workers will stay on leave without pay pending final outcome of the investigation. If they are returned to work, their pay will be reinstated for the period they were on leave, Castagno said.

GPU Nuclear said April 16 that the five equipment operators it suspended last week at Oyster Creek occasionally logged "observations they did not actually make," but that they acted independently of one another.

GPU Nuclear spokeswoman Suzanne Dietz said the utility discovered the reporting discrepancies during a probe initiated last month. The probe—conducted periodically by GPU Nuclear—was not a result of problems surfacing at other nuclear units, Dietz said. She said logs were checked for the three-month period beginning in December, and that previous company reviews of log-keeping did not find any discrepancies.

WPPSS spokesman John Britton said the utility initiated its own probe of auxiliary operator recordkeeping at WNP-2 10 days ago, but does not expect the investigation to be completed for another two weeks. "We have no reason to believe we have a problem at this time," Britton said. He added, "The only way you can know if you have a problem is to do an audit of the equipment operator logs and compare them to the security access locks (data)."

—Richard R. Zuercher, Washington

NRC INSPECTION TEAM FINDS FLAWS IN FPC EQUIPMENT DEDICATION

Commercial-grade equipment installed at Florida Power Corp.'s (FPC) Crystal River-3 appears not to have been properly assessed for nuclear use by the utility's procurement department before installation, NRC says.

In late March, an NRC Vendor Inspection Branch team uncovered instances in which the plant's dedication pro-

PROTECTION TECHNOLOGY
INTER-OFFICE MEMO

TO: ALL FIREWATCH
FROM: Joseph C. Strimel
DATE: JANUARY 10, 1990
RE: FALSIFICATION OF FIREWATCH PROCEDURES

- I. ALL FIRE WATCH PERSONNEL ARE ADVISED THAT THE WILLFUL AND DELIBERATE FALSIFICATION, OR ATTEMPT TO FALSIFY ANY FIRE WATCH DOCUMENTS IS A SERIOUS OFFENCE, AND UPON INVESTIGATION AND PROOF OF SUCH FALSIFICATIONS OR ATTEMPTS TO FALSIFY, WILL RESULT IN IMMEDIATE TERMINATION OF EMPLOYMENT. SINCE THESE DOCUMENTS BECOME A PART OF THE PERMANENT NUCLEAR POWER PLANT HISTORICAL RECORDS, SUCH FALSIFICATIONS OR ATTEMPTS TO FALSIFY, ONCE PROVEN, MAY ALSO SUBJECT THE RESPONSIBLE PERSON TO CRIMINAL PROSECUTION.
- II. ALL FIRE WATCH PERSONNEL ARE REQUIRED BY PSE&G AND NRC REGULATIONS TO MAINTAIN A CONSTANT AND CONTINUOUS PATTERN OF CONDUCTING THE ROVE FIRE WATCH PATROLS WITHIN THE PRESCRIBED ONE HOUR INTERVALS DURING EACH ROVE, AND DURING SHIFT TURNOVER. IN ORDER TO ACCOMPLISH THIS, IT IS IMPERATIVE AND REQUIRED THAT ALL FIRE WATCH, RELIEF PERSONS, AND SUPERVISOR PERSONNEL MAINTAIN THE SAME SEQUENTIAL PATTERN FOR CHECKING THE ROVES EACH HOUR. IN THE EVENT A POTENTIAL PROBLEM IS FORESEEN, THE FIRE WATCH OR PERSON CONDUCTING THE ROVE MUST NOTIFY THE SUPERVISOR ON DUTY IN THE SPECIFIC PLANT OF THE PROBLEM, AND SEEK CORRECTIVE ACTION. DO NOT WAIT FOR THE POTENTIAL PROBLEM TO BECOME AN ACTUAL PROBLEM. IN THE EVENT THE PLANT SUPERVISOR CANNOT BE REACHED INSTANTLY, THE SENIOR SHIFT SUPERVISOR ON DUTY IN THE ADMINISTRATIVE OFFICE WILL BE CONTACTED IMMEDIATELY (SALEM EXTENSIONS 2815 OR 2811). FAILURE TO FOLLOW THE ESTABLISHED ROVE SEQUENCE AND TIME FRAMES MAY SUBJECT THE RESPONSIBLE FIRE WATCH TO DISCIPLINARY ACTION, TO INCLUDE POSSIBLE SUSPENSION OF THEIR EMPLOYMENT WITHOUT PAY, OR TERMINATION OF THEIR EMPLOYMENT.

**PROTECTION TECHNOLOGY
INTER-OFFICE MEMO**

TO: All Firewatch Personnel
FROM: Joseph C. Strimel
DATE: July 2, 1992
RE: Quality Assurance

As a result of the blatant disregard for impairment checks by certain firewatch personnel, the following quality assurance measures will be effective immediately:

- 1.) Increased field surveillance inspections by PTI & PSE&G management.
- 2.) Request of random personnel transaction printouts on all firewatch personnel which will be compared against field impairment sheets.

As customary, any procedural violations will result in immediate disciplinary action up to and including termination of employment.

Should you have any questions regarding these quality assurance measures, please let me know.

CC:

J.P. Koris
R.W. Lett
M.W. Doss
All Spvrs.
Dull. Board
File

Attachment I-1

THIS INDEX WILL BE USED IN ALL FIRE WATCH POST ORDER BOOKS AND MUST NOT BE CHANGED EXCEPT BY SUPERVISION. AT NO TIME WILL ANY FIRE WATCH MAKE CHANGES OR MARK IN OR ON THIS BOOK.

- (1) POST ORDERS
- (2) FIRE EMERGENCY / REPORT AN EMERGENCY
- (3) CODED AUDIBLE ALARMS
- (4) FIRE EXTINGUISHER HAND OUT
- (5) AP-25 FIRE WATCH GUIDELINES
- (6) FIRE HAZARD REPORT
- (7) COMMUNICATION SYSTEMS REPORT
- (8) FIRE WATCH RULES
- (9) PERSONNEL CONTACT IN THE R.C.A.
- (10) FIRE WATCH JOB PERFORMANCE
- (11) PARTIAL WORK RULES
- (12) INTER OFFICE MEMORANDUM
- (13) POST INSPECTION QUESTIONS
- (14) FALSIFICATION AND VIOLATION OF FIRE WATCH PROCEDURES

FIREWATCH POST ORDERS

UNIT: SALEM 1 () SALEM 2 () HOPE CREEK 1 (X)
SALEM COMMON () HOPE CREEK COMMON ()

LOCATION: 178 Reactor Room 4616 + 4617

TYPE OF AREA: PROTECTED () UNPROTECTED () VITAL (X)

ENTRY REQUIREMENTS S.A.P. : NO

ACCESS LIST REQUIRED: YES () NO (X)

OTHER REQUIREMENTS: NO

PROTECTIVE CLOTHING: PER R.W.P.

DOSIMETRY REQUIRED: YES (X) NO ()

ENTRY & EXIT LOG REQUIRED: YES (X) NO ()

POST COMMUNICATIONS: TELEPHONE (X) PAGE (X) RADIO ()

OTHER () (state): _____

POST EQUIPMENT: Post Order Book/Impairment Sheets/Black Ink Pen/Flashlight.

SPECIAL INSTRUCTIONS: Patrol area of responsibility as detailed. Ensure each room/area is observed continuously. Report fires/hazardous conditions to the appropriate control room. Your primary duty is to provide early warning in case of fire. Secondary duty is to extinguish fire if within your capacity to safely do so.

F/W SUPER. SIGNATURE: [Signature]
(OPEN)

DATE: 12/30/92

F/W SUPER. SIGNATURE: _____
(CLOSED)

DATE: 1/1/93

1

[illegible]

EMERGENCY NOTIFICATIONS

FIRE EMERGENCY:

1. Pull fire alarm or call x3333, give location, type and size of fire.
2. Alert all personnel to evacuate area immediately.
3. Have craft or other personnel disconnect cables or hoses that are routed through OPEN fire doors.
4. If it is within your capacity to do so, attempt to extinguish fire with Portable fire extinguisher.
5. Close fire door if possible.
6. Remain available in the problem area and provide necessary information to the Fire Brigade upon their arrival.

TO REPORT AN EMERGENCY:

1. Dial x3333 or Page line #5 (Hope Creek Only)
2. Explain what type of emergency you have (i.e. Fire, Person Injured, Etc...).
3. Give location, Building, Area, Elevation, Column, Wall Line, Room number, Etc...
4. Stay on the line until all of the information is received.
5. If more than one (1) person is in the area, send someone to direct the Fire Brigade or E.M.S. team to the scene.
6. Attempt to contact Firewatch Supervision to inform him/her of the problem when there is time. If the supervisor cannot be reached, then relay the information to the relief person.

SALEM STATION ZONE CODER ALARMS SHEET

CODE #	LOCATION	CODE #	LOCATION
1-1-1	FIRE PUMP HOUSE & BLR.	1-6-4	84' AUX. BLDG. DPOST
1-1-2	GUARD HOUSE	1-6-5	100' DIESEL GEN. AREAS
1-1-3	11/12 STA. PWR. XFRMRS.	1-7-1	AUX. BLDG. RAP WASTE BAY
1-1-4	MAIN & AUX. XFRMR.	1-7-2	SERVICE WATER INTAKE AREA
1-1-5	ADMIN. BLDG. 100' ELE.	1-7-3	CIRC. WATER INTAKE AREA
1-1-6	ADMIN. BLDG. 116' ELE.	1-7-4	FOAMITE HOUSE
1-2-1	TURBINE GEN. AREA 88'	1-8-1	OIL DRUM STRG. BLDG. A&B BLDG
1-2-2	TURBINE GEN. AREA 100'	2-1-3	21/22 STA. PWR. XFRMRS.
1-2-3	TURBINE GEN. AREA 120'	2-2-1	TURBINE GEN. AREA 88'
1-2-4	TURBINE GEN. AREA 140'	2-2-2	TURBINE GEN. AREA 100'
1-2-5	CONDENSATE POLISH. BLDG.	2-2-3	TURBINE GEN. AREA 120'
1-3-1	SERVICE BLDG. 88' ELE.	2-2-4	TURBINE GEN. AREA 140'
1-3-2	SERVICE BLDG. 100' ELE.	2-3-6	"A" BUILDING AREA
1-3-3	SERVICE BLDG. 113' ELE.	2-4-1	ELECT. PEN. AREA 78' EL.
1-3-4	SERVICE BLDG. 127' ELE.	2-4-2	MECH. PEN. AREA 78' EL.
1-3-5	RADIATION MNTR. ENCLR.	2-4-3	CHILLER ROOM 100' ELE.
1-3-6	"B" - BUILDING	2-4-4	NORTH PENETRATION AREA
1-4-1	ELECT. PEN. AREA 78' EL.	2-4-5	REACTOR CONTAINMENT
1-4-2	MECH. PEN. AREA 78' EL.	2-4-6	FUEL HANDLING BLDG.
1-4-3	CHILLER ROOM 100' ELE.	2-5-1	64' SWITCHGEAR ROOM
1-4-4	SOUTH PENETRATION AREA	2-5-2	84' SWITCHGEAR ROOM
1-4-5	REACTOR CONTAINMENT	2-5-3	100' RELAY/BATTERY RMS.
1-4-6	FUEL HANDLING BLDG.	2-5-4	122' CONT. RM. HVAC
1-5-1	64' SWITCHGEAR ROOM	2-5-5	45'/55' AUX. BLDG.
1-5-2	84' SWITCHGEAR ROOM	2-5-6	64' AUX. BLDG.
1-5-3	100' RELAY/BATTERY RMS.	2-6-1	84' AUX. BLDG.
1-5-4	122' CONT. RM. HVAC	2-6-2	100' AUX. BLDG.
1-5-5	45'/55' AUX. BLDG.	2-6-3	122' AUX. BLDG.
1-5-6	64' AUX. BLDG.	2-6-4	84' AUX. BLDG. DPOST
1-6-1	84' AUX. BLDG.	2-6-5	100' DIESEL GEN. AREAS
1-6-2	100' AUX. BLDG.	2-8-1	SERVICE WATER PIPE TUNNEL
1-6-3	122' AUX. BLDG.		

How to FIGHT FIRES (cont'd):

For different kinds
of **FIRES**...



CLASS A **ORDINARY COMBUSTIBLES**
Fires burning in wood, cloth, paper, rubbish, rags, excelsior, shavings, packing materials.

CLASS B **FLAMMABLE LIQUIDS AND GASES**
Fires fueled by gasoline, oil, grease, paint, paint thinners, propane, ethers.

CLASS C **ELECTRICAL EQUIPMENT**
Fires occurring in motors, controls, wiring; or caused by live electrical current.

CLASS D **COMBUSTIBLE METALS**
Fires in magnesium, titanium, zirconium, lithium, sodium, etc.



OTHER WAYS TO FIGHT A FIRE

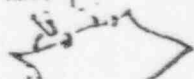
BEAT OUT
a fire with a fire extinguisher.



DRENCH
a fire with water from a fire hose or fire bucket.



SMOTHER
a fire with a blanket or sand.



...there are different kinds of
FIRE EXTINGUISHERS

Find out **WHERE THEY ARE** and **HOW THEY WORK**
... **NOW**, before a fire starts.

WATER

- TYPES: pump tank; stored pressure; cartridge.
- Works by **COOLING** fire.
- Use for class **A** fires.



CHEMICAL FOAM

- Works by **SMOTHERING** fire with foam.
- Use for class **A** and **B** fires.



COMPRESSED GAS

- TYPES: CO₂; bromotrifluoromethane.
- Works by **SMOTHERING** fire with gas.
- Use for class **B** and **C** fires.



DRY CHEMICAL

- TYPES: mono; pre-mixed; cartridge operated.
- Works by **SMOTHERING** fire with blanket of powder.
- Use for class **B** and **C** fires.



MULTIPURPOSE DRY CHEMICAL

- Works by **SMOTHERING** fire with blanket of powder.
- Use for class **A**, **B**, and **C** fires.



DRY POWDER

- TYPES: special ones for the different combustible metals.
- Use for class **D** fires.



KNOW THE LOCATION of emergency
equipment in your work area.

FIRST AID KIT
Fast action can
save a life. Know
where to find



RESCUE...
Ladder, or,
breathing
equipment.



**GENERAL FIRE WATCH GUIDELINES
PROCEDURE AP-25**

- 1.) Deficiencies observed in a fire protection system/component shall be immediately reported to the Nuclear Fire Watch Supervisor.
- 2.) Fire detection or suppression system if activated by a fire shall not be shut off until authorized by a NFPS or the shift supervisor.
- 3.) Fire protection water shall not be utilized for non fire protection activities without permission from the SS and NFPS.
- 4.) Fire extinguishers used by Fire Watches in the performance of their duties shall be obtained from the storeroom/fire house. Extinguishers installed in the station for emergency purposes shall not be used for routine Fire Watches.
- 5.) Fire Watch Supervisors shall be notified whenever a portable fire extinguisher is discharged.
- 6.) Material shall be stored so access to fire protection systems or fire fighting equipment is not restricted.
- 7.) Combustible structures (i.e., office or storage trailers, sheds, dumpsters, trash bins, etc.) shall be located at least 30 feet from permanent plant buildings.
- 8.) Smoking is prohibited except in designated areas.
- 9.) Response to a Fire (Individual Actions):
 - a.) Any Fire Watch discovering evidence of fire shall notify the Control Room using the quickest available means (telephone emergency number 3333, or manual pull box station or use page.)
Under no circumstances should any person be allowed to activate the CO2 Suppression System until the Fire Brigade arrives.
 - b.) The individual should fight the fire utilizing a portable fire extinguisher if it is within his capacity. If not, he/she should evacuate to a safe distance and stand by to direct the Fire Brigade to the scene.

10.) Combustible Material:

- a.) Permanent interior storage of combustible material is prohibited except in areas where suppression systems have been installed.
- b.) All trash, debris, scrap, non oily rags, packing materials, and other combustibles resulting from work activities shall be removed from the work area immediately following work completion by the department performing the work.

11.) Flammable Liquids and Gases

- a.) All flammable liquids shall be handled and stored only in factory Mutual Engineering or Underwriters Laboratory approved safety cans or storage lockers.
- b.) All compressed gas cylinders shall be stored in an upright position and secured to a permanent structure with a wire or chain.
- c.) All cylinders shall be capped when not in use.
- d.) Flammable gas cylinders are not allowed inside a building on a permanent basis without the approval of the Senior NFPS as indicated by a signed tag attached to the cylinder.

12.) Ignition Sources:

- a.) The use of equipment representing significant ignition hazards shall be controlled by a Hot Work Permit. A permit is not required in areas where welding and other work involving significant ignition sources is routinely performed.
- b.) A permit shall authorize a single work assignment. A Permit is only valid for the calendar day for which it is issued.
- c.) Fire Watch shall remain in the area a minimum of 30 minutes after Hot Work is performed.

13.) Transient Fire Loads:

- a.) Only a one (1) day supply of flammable liquids (paint, thinner, oil) will be allowed inside a building for a specific job.
- b.) Storage of unused wooden scaffolding for more than 24 hours is prohibited.
- c.) No more than one (1) gallon of flammable or fire (5) gallons of combustible liquids may be used on a single job in a safety related area.

PSELG
SALEM / HOPE CREEK
NUCLEAR FIRE PROTECTION

FIRE HAZARD REPORT

THIS REPORT IS TO BE USED FOR ANY FIRE HAZARDS, OPERATIONAL, OR HEALTH PHYSICS CONCERNS ONLY ITEMS OF PARTICULAR CONCERNS ARE AS MENTIONED BELOW:

Unauthorized activities by personnel that could increase the fire hazard in any given area of the plant.

- EXAMPLE:
- 1) Smoking in unauthorized areas.
 - 2) Welding units left on with no personnel in the area.
 - 3) Uncapped, unsecured or improperly secured compressed gas cylinders
 - 4) Hot Work without Fire Watch, fire extinguisher, or Hot Work Permit in the area.

Conditions likely to cause a fire hazard such as spills of flammable or combustible liquids or malfunctioning equipment.

- EXAMPLE:
- 1) Pumps or motors with oil leaking or spilled, not cleaned up.
 - 2) Oil soaked rags left in area without being cleaned up.
 - 3) Pumps or motors making loud unusual noises.
 - 4) Panels or cabinets sounding alarms or creating loud unusual noises.
 - 5) Water leaking onto or into any electrical equipment.
 - 6) Water leaking from any equipment that appears to be uncontrolled or released.
 - 7) Uses of solvents or flammable liquids in an area where there is Hot Work or grinding operations in progress.

Conditions likely to adversely affect Fire Protection system operation.

- EXAMPLE:
- 1) Missing, blocked, broken, or discharged fire extinguishers.
 - 2) Blocked or obstructed sprinkler heads.
 - 3) Open fire doors without Fire Protection impairment permits on the door.
 - 4) Blocked or impeded fire hose stations or sprinklers control valves.
 - 5) Any materials blocking main aisles or passageways.

PSE&G
SALEM / HOPE CREEK
NUCLEAR FIRE PROTECTION

FIRE HAZARD REPORT

Accumulation of Transient Combustible Materials.

- EXAMPLE: 1) Large piles of trash, papers, or materials when exposed to heat or flame will readily burn.
- 2) Any type of flammable or combustible liquid not in a proper safety container or in the proper storage areas.
- 3) Large quantities of wood or wood product which does not appear to be used or about to be used.
- 4) Large piles of protective clothing (PC's) either not in a barrel or appear to be overflowing.

All items found or in question will be written up on the attached sheet giving the following.

- 1) What the item is.
- 2) Location including station, building, elevation, room, or area where item can be found.
- 3) What the problem involves.
- 4) The time you found the item involved.

NOTE: All items which involve Fire Protection equipment requiring immediate attention should be reported to the Fire Protection group via the phone at Salem Ext. 2800 or 2801 and written on the attached sheet.

NOTE: All items which involve the Operations or Health Physics (HP's) group equipment should be reported to the Control Room via phone or page Salem Ext. 5111 for U/1 Control Room, Salem Ext. 5222 for U/2 Control Room, and Hope Creek Ext. 3340.

NOTE: All items that involve a Fire Watch rove or post should be reported to the Fire Watch Supervisor Salem Ext. 2815 or 2811.

NOTE: All items that involve Security such as a card reader should be reported to Security Salem Ext. 2222

ANY EMERGENCIES SHOULD BE REPORTED BY THE EMERGENCY REPORTING PROCEDURE; PHONE EXT. 3333, PAGE (AT HOPE CREEK LINE #5), OR THE FIRE ALARM PULL STATION.

TRACKING #: _____

NAME: _____ DATE: ____/____/____ TIME: _____ SHIFT: 1 2
SHIFT SUPERVISOR: _____ PHONE # _____ (circle one)
SALEM STATION: UNIT #1 _____ UNIT #2 _____ HOPE CREEK STATION: _____
POST/LOCATION: _____

TYPE OF HAZARD/INCIDENT: (check one)

FIRE _____ HEALTH _____ SAFETY _____ RADPRO _____ MAINTENANCE _____ OTHER _____

ACTION REQUIRED: (check one)

IMMEDIATE _____ A.S.A.P. _____ OTHER _____

REPORTED TO: (Name) _____ DEPT. _____ PHONE _____

NARRATIVE: (Hazard/Incident)

REPORTING OFFICER: _____ DATE: ____/____/____ TIME: _____

APPROVING SPVR.: _____ DATE: __/__/__ TIME: _____

PROGRAM MANAGER: _____ DATE: __/__/__ TIME: _____

M.F.P.S.: _____ DATE: __/__/__ TIME: _____
(if applicable)

ACTION TAKEN:

****** ATTENTION FIREWATCH ******

If any communication system in your assigned post is out of order, know alternate means of communication.

EXAMPLE:

Phones outside of your assigned post, Unit 1/2 phones, pages or Fire Alarm Pull Stations near or on your post.

****** IMPORTANT ******

REPORT ALL COMMUNICATION SYSTEMS WHICH ARE NOT OPERABLE ON YOUR FIRE HAZARD REPORT.

**P.S.E. & G.
SALEM/HOPE CREEK
NUCLEAR FIRE PROTECTION
FIREWATCH RULES**

=====

PHONE NUMBERS

EMERGENCY (BOTH STATIONS) - 3333

SALEM UNIT 1 - 5111

SALEM UNIT 2 - 5222

HOPE CREEK - 3059

SALEM RAD-PRO - 2644

FIRE PROTECTION - 2800,2801

SECURITY - 2222/2223

=====

RULES

- 1.) **NO SLEEPING WHILE ON DUTY.**
- 2.) **KNOW YOUR WATCH STATION/POST:** Fire Extinguisher locations
Phone Locations
Entrances/Exits
Fire Alarm pull stations
Hot Work in Progress
Hot Work areas cleared for 35'
Hot Work permits posted
Hot Work permits in date
- 3.) **CHECK FOR TRASH AND OTHER COMBUSTIBLES NOT NEEDED:**
 - Contact Fire Protection on any questions about combustible material.
 - Contact Control Room for material removal.
 - Notify Fire Protection about work areas that were not cleaned up after work was completed or at end of shift.
- 4.) **CHECK THE FIRE EXTINGUISHERS IN THE AREA FOR:**
 - Needle on the gauge is in the green.
 - The extinguisher has a broken seal on handle.
 - Contact Fire Protection on any questions on Portable Extinguisher.
- 5.) **IMPAIRMENTS:** Verify that impairments are posted.
Verify that they are in date.
Ensure post orders are being followed !!.

TO: All Fire Department and PTI Fire Watch Personnel

FROM: Jon F. Kerin *JFK*
Sr. Nuclear Fire Protection Supervisor

SUBJECT: PERSONNEL CONDUCT IN THE RADIOLOGICAL CONTROL AREA (RCA)

DATE: January 10, 1990

This memorandum reinforces the responsibility of each individual when working in the RCA.

To prevent accidental ingestion or inhalation of radioactive material, " NO EATING, NO DRINKING, NO SMOKING AND NO CHEWING " IS ALLOWED IN THE RCA.

In addition, the following " Safe Work Practices " are to be reviewed and strictly adhered to:

1. Comply with Radiation Work Permit (RWP) requirements.
2. Wear personnel dosimetry on the upper front portion of the body unless directed otherwise by RP.
3. Wear protective clothing correctly and undress properly.
4. Do not touch unprotected areas of the body while wearing protective clothing (prevent personnel contaminations).
5. Practice good ALARA practices
 - a. use time, distance, shielding to reduce personal exposure.
 - b. monitor dose frequently.
 - c. be aware of radiological conditions and Radiation Work Permit (RWP) requirements.
 - d. minimize spread of contamination.
 - e. minimize generation of radioactive waste.
 - f. exit area and contact R.P. if conditions change.

6. Notify the Control Room of significant leaks anywhere in the plant.
7. Notify Control Point immediately if any leaks are observed in the radiological controlled area (RCA).
8. Contain all radioactive liquids leaking from plant systems using good judgment.
9. Do not bring unnecessary tools, equipment, combustibles or paperwork into the RCA.
10. Newspapers and Non-Work Related Reading Material is " PROHIBITED " in the RCA. as well as any jobsite.

Should you witness any individual violating these requirements, or identify combustible materials (trash, newspapers, smoking materials) in the RCA notify your supervisor and include same on your inspection report.

JFK/meb

cc: Manager - Site Protection
J. Wray, Principle Engineer - SCS Rad Pro

MEMORANDUM

TO: PTI PROGRAM 
FROM: J. F. KERIN
SENIOR NUCLEAR FIRE PROTECTION SUPERVISOR

SUBJECT: REVIEW OF RECENT DISCUSSIONS ON PSE&G DIRECTION TO
PTI-ON FIREWATCH JOB PERFORMANCE.

MARCH 2, 1988.

This memo is to document direction given to PTI from PSE&G on several items.

1. Post assignments for roves that include men's or women's locker rooms. Do not assign men firewatch to go into women's locker rooms or women firewatch to go into men's locker rooms. Adjust the roves and personnel accordingly. This direction was a result of problems occurring with the Hope Creek locker rooms.
2. Firewatch leaving areas of assigned rove without being replaced by a relief firewatch. Firewatch are not to leave the rove area to go to the bathroom or for other reasons without being replaced by a relief firewatch. To clarify this item, when the assigned rove includes or goes right past a bathroom, there is not a problem with the firewatch using the bathroom.
3. Firewatch are not to take breaks or lunch periods in PSE&G locker rooms. The assigned lunch and break area for PTI is the PTI area in the Changehouse. The break period has been extended to 30 minutes to allow for travel time from post to the break area. The lunch period remains at 30 minutes. At Hope Creek, firewatch may use the Contractors' lunch area at 102' El. Control-2. Firewatch are reminded to properly dispose of any trash generated by them in this area.
4. No eating (to include drinking soda or coffee), sitting, or reading unauthorized material while on post. The memos to firewatch with the original directions were forwarded to you on 2-24-88. These requirements cover all posts. However, Radiological Procedures also prohibit eating, drinking, chewing gum or tobacco, smoking and unauthorized reading material for posts located inside the RCA. Personal items such as lunch boxes, book bags, or large purses shall not be on post with the firewatch.

FIREWATCH PERSONNEL

The following work rules are not meant to be all inclusive, and are merely a guide in the form of some specific infractions. No recourse or argumentative defense will be entertained because a specific infraction was not listed.

All company employees shall review and become thoroughly familiar with the work rules listed in this document. These rules are divided into two (2) categories, each of which is defined and the rules listed below:

CATEGORY A

Commission of an act of misconduct listed in this category, or failure to fulfill or pass required job qualifications, will be considered serious in nature and could be grounds for immediate termination.

- A-1 Possessing, drinking or being under the influence of alcoholic beverages during working hours (including meal times and while on the job site).
- A-2 Illegal possession, use or being under the influence of narcotics, marijuana or other non-prescribed controlled substances during working hours (including meal times) and while on the job site.
- A-3 Sleeping on duty.
- A-4 Leaving an assigned post unattended prior to being properly relieved.
- A-5 Theft or misrepresentation of property.
- A-6 Abuse, misuse, destruction or defacement of property.
- A-7 Falsification of employment records, pay records or official reports.
- A-8 Failure to adhere to PSE&G and NRC Rules and Regulations.
- A-9 Violation of Firewatch Plan Procedures, Firewatch Post Orders and/or Firewatch Temporary Orders.
- A-10 Violation of Plant Safety and/or Radiological rules or regulations.
- A-11 Interference with other employees while in the performance of their duties.
- A-12 Refusal to obey an order of a supervisor.
- A-13 Lewd or indecent behavior or acts to include sexual harassment while on duty or the job site.

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- A-14 Refusal to assume a post as directed and/or scheduled by a supervisor.
- A-15 Insubordinate behavior or acts directed towards a member of supervision.
- A-16 Refusal to work overtime in accordance with established overtime procedures.
- A-17 — Failure to return to work on date specified by employer after a lay-off.
- A-18 Any employee who is absent for two (2) consecutive work days without notifying a supervisor or management representative will be considered to have tendered a voluntary resignation. Any employee who is unable to report for his/her regular shift must notify his/her immediate supervisor or management representative one (1) hour before his/her regular reporting time.
- A-19 Failure to return as scheduled following an approved leave of absence.
- A-20 Supplying a false reason for a leave of absence and/or engaging in other employment during such leave.
- A-21 Absence because of illness or injury for more than twelve (12) months.
- A-22 Release of information regarding client or company activities to unauthorized persons without management's permission.
- A-23 Failure to perform assigned duties during emergencies.
- A-24 Unauthorized removal of Firewatch equipment from the site.
- A-25 Aberrant behavior, behavior which substantially deviates from the standard.
- A-26 Association or participation in a known violation to include failure to immediately report known violations to proper authorities.
- A-27 Conviction by civil authorities of a criminal offense. Charges by civil authorities for criminal offenses will warrant suspension of employment pending disposition of charges.
- A-28 Failure to satisfy the Client's required tests and/or examinations.

- A-29 Tampering with or making alterations to the Client or Company's equipment.
- A-30 Personnel will not bring on Client property, carry or conceal about their person any and all items that may or could be used as a weapon. Only authorized equipment as provided by the Company and/or Client will be permitted.

CATEGORY B

Commission of an act of misconduct listed in this category may not necessarily result in severe disciplinary action for the first offense, however, repeated acts could result in harsher measures upto and including termination.

- B-1 Failure to provide adequate excuse for absences over and beyond the authorized personal/sick days given.

B-2 LATENESS

Reporting late for work in any consecutive six (6) month period, even with notification to a PTI supervisor and/or PTI Manager, will be subject to progressive disciplinary action as listed below.

FIRST OFFENSE - Oral Warning

SECOND OFFENSE - Written Warning

THIRD OFFENSE - Three (3) Day Suspension

FOURTH OFFENSE - Termination of Employment

- B-3 Telephone privileges - Personal telephone calls to and by, all employees, other than in an emergency situation, will not be permitted on company telephones. Other than in case of an emergency, all calls should be made and received during the meal or break periods, and on the pay telephone located on site.
- B-4 Inattentativeness while on post.
- B-5 Malingering or procrastinating to avoid assigned work or duty.
- B-6 Loitering within the immediate area of a post to which you are not assigned for reason other than discharge of your assigned duties. Breaks must be authorized by supervisory personnel and then taken only in authorized break areas.

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- B-7 Failure to attend scheduled appointments without just cause.
- B-8 Failure to adhere to prescribed grooming standards as outlined below:
- a. Employees shall maintain a neat, well-groomed appearance.
 - b. Hair shall be cut to present a good appearance.
 - c. Moustaches shall not extend below the corners of the mouth.
- B-9 Failure to discharge your duties in a professional and courteous manner.
- B-10 Reading unauthorized or commercially printed material while on post.
- B-11 *Facial Hair (beards, sideburns) must be eliminated so as to be compatible with respiratory safety equipment as required at the Client's facilities. This rule is formulated in the interest of safety to the wearer, and to prevent possible loss of life.

*A report furnished by Soot Aviation Corp. (manufacturers of respiratory safety equipment) based upon independent studies, indicate that facial hair (beards, sideburns) prevent a positive seal between the face of the wearer and the seal on the face mask of the respiratory safety equipment. This loss of a positive seal is a safety hazard.

PROTECTION TECHNOLOGY
INTER-OFFICE MEMO

TO: ALL NUCLEAR FIREWATCH
FROM: PHILIP J. IADISERNIA
DATE: December 4th, 1992
RE: SITTING ON POST

Sitting on post is a violation of all post orders and PTI's work rules. The following disciplinary action will be taken against personnel sitting on post:

1st Offense - 3 Days Suspension without pay.

2nd Offense - Termination of employment.

Any questions concerning this policy may be directed to any supervisor or myself.

PROTECTION TECHNOLOGY
INTER-OFFICE MEMO

TO: ALL FIREWATCH
FROM: PHILIP J. IADISERNIA
DATE: DECEMBER 4th, 1992
RE: POST INSPECTIONS QUESTIONS

The following is a list of common questions that pertain to the particular post you are assigned , and while this list is not all-inclusive, it represents the general information concerning your post that you should be familiar with, in order to perform your assigned duties, and in the event you are inspected by a member of Protection Technology, PSE&G, NRC, or any other authorized department or agency. PLEASE DO NOT WRITE ON THIS DOCUMENT.

1. What are your two main responsibilities ?
2. What does your post include and what are the boundaries ?
3. What is the reason that this post was established ?
4. How do you describe the location of this post ?
5. Where are the phones, pages, and fire alarm pull stations (continuous posts) ?
6. What are ways in which you would report an emergency from this post ? What would you dial (or which channel) and say ? Who would be called ?
7. Where are the fire extinguishers located, and what type are they ?
8. Are there other types of fire suppression systems on this post (continuous posts) and are they operable ?
9. Are there fire detection systems on this post (continuous post) and are they operable ?
10. In CO2 protected areas, where are the ELSA's located, how many, and do you know how to use one ?
11. (Salem) what is the coded fire alarm for your post ?
12. What would you do if you heard a coded fire alarm for your post?

OVER

13. (Roving post) Are impairments posted for each impairment listed on the impairment checklist ?

14.(RCA continuous posts) Have you checked the Radiological status report board at the control point for this post?

15. Are you carrying your Fire watch certification card ?

PROTECTION TECHNOLOGY
INTER-OFFICE MEMO

TO: ALL FIREWATCH

FROM: PHILIP J. IADISERNIA

DATE: December 4th 1992

RE: FALSIFICATION OF FIREWATCH PROCEDURES

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- I. ALL FIRE WATCH PERSONNEL ARE ADVISED THAT THE WILLFUL AND DELIBERATE FALSIFICATION, OR ATTEMPT TO FALSIFY ANY FIRE WATCH DOCUMENTS IS A SERIOUS OFFENCE, AND UPON INVESTIGATION AND PROOF OF SUCH FALSIFICATIONS OR ATTEMPTS TO FALSIFY, WILL RESULT IN IMMEDIATE TERMINATION OF EMPLOYMENT. SINCE THESE DOCUMENTS BECOME A PART OF THE PERMANENT NUCLEAR POWER PLANT HISTORICAL RECORDS, SUCH FALSIFICATIONS OR ATTEMPTS TO FALSIFY, ONCE PROVEN, MAY ALSO SUBJECT THE RESPONSIBLE PERSON TO CRIMINAL PROSECUTION.
- II. ALL FIRE WATCH PERSONNEL ARE REQUIRED BY PSE&G AND NRC REGULATIONS TO MAINTAIN A CONSTANT AND CONTINUOUS PATTERN OF CONDUCTING THE ROVE FIRE WATCH PATROLS WITHIN THE PRESCRIBED ONE HOUR INTERVALS DURING EACH ROVE, AND DURING SHIFT TURNOVER. IN ORDER TO ACCOMPLISH THIS, IT IS IMPERATIVE AND REQUIRED THAT ALL FIRE WATCH, RELIEF PERSONS, AND SUPERVISOR PERSONNEL MAINTAIN THE SAME SEQUENTIAL PATTERN FOR CHECKING THE ROVES EACH HOUR. IN THE EVENT A POTENTIAL PROBLEM IS FORESEEN, THE FIRE WATCH OR PERSON CONDUCTING THE ROVE MUST NOTIFY THE SUPERVISOR ON DUTY IN THE SPECIFIC PLANT OF THE PROBLEM, AND SEEK CORRECTIVE ACTION. DO NOT WAIT FOR THE POTENTIAL PROBLEM TO BECOME AN ACTUAL PROBLEM. IN THE EVENT THE PLANT SUPERVISOR CANNOT BE REACHED INSTANTLY, THE SENIOR SHIFT SUPERVISOR ON DUTY IN THE ADMINISTRATIVE OFFICE WILL BE CONTACTED IMMEDIATELY (SALEM EXTENSIONS 2815 OR 2811). FAILURE TO FOLLOW THE ESTABLISHED ROVE SEQUENCE AND TIME FRAMES MAY SUBJECT THE RESPONSIBLE FIRE WATCH TO DISCIPLINARY ACTION, TO INCLUDE POSSIBLE SUSPENSION OF THEIR EMPLOYMENT WITHOUT PAY, OR TERMINATION OF THEIR EMPLOYMENT.

PROTECTION TECHNOLOGY
INTER-OFFICE MEMO

TO: ALL FIREWATCH
FROM: JOSEPH C. STRIMEL
DATE: JANUARY 10, 1990
RE: POST INSPECTIONS QUESTIONS

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