



CONFIRMATORY ACTION LETTER
UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

Peke

JUL 06 1984

Docket No. 50-483

Union Electric Company
ATTN: Mr. Donald F. Schnell
Vice President - Nuclear
Post Office Box 149 - Mail Code 400
St. Louis, MO 63166

Gentlemen:

This refers to a 10 CFR 50.72 reportable event which occurred at 1510 CDT on July 4, 1984. Control room ventilation and containment purge isolation signals were initiated due to a loss of power to three process radiation monitors. Further investigation by your staff revealed manually opened, rather than tripped, power supply breakers in the 120V distribution panel which supplies the radiation monitors.

Based on discussions between you and Mr. C. E. Norelius of my staff, it is our understanding that prior to the Plant Manager's approval to take the reactor critical, you will: (1) conduct a thorough investigation of this event to determine the most probable causes; and (2) provide for NRC review and acceptance, the results of your investigation and corrective actions taken to prevent recurrence.

Please let us know immediately if your understanding differs from that set forth above.

Sincerely,

for James G. Keppler
Regional Administrator

cc: W. H. Weber, Manager, Nuclear
Construction
S. E. Miltenberger, Plant Manager
R. L. Powers, Assistant Manager
Quality Assurance
DMB/Document Control Desk (RIDS)
Resident Inspector, RIII
J. Axelrad, IE
B. Youngblood, NRR
J. Hind, RIII
Region IV
K. Drey
Chris R. Rogers, P.E.
Utility Division, Missouri
Public Service Commission

7

8502280099 840925
PDR FDIA
VARRICCB4-671 PDR

Region III Daily Report
REGIONAL ACTION

DATE 06/05/84
ITEM OR EVENT

FOLLOWUP PER MC 2544.

DURING THE PERIOD OF 6/11-2/84, THE FOLLOWING UNPLANNED EVENTS TOOK PLACE AT THE CALLAWAY PLANT WHILE THE LICENSEE WAS PERFORMING SURVEILLANCE TESTS IN PREPARATION FOR FUEL LOAD: UNINTENTIONAL CLOSING OF THE RRH PUMP SUCTION VALVES WITH PUMPS IN OPERATION (PUMPS WERE IMMEDIATELY TRIPPED WITH NO APPARENT DAMAGE); THREE INSTANCES WHICH INITIATED SPURIOUS SAFETY INJECTION SYSTEM ACTUATION SIGNALS; AND AN INCORRECT VALVE LINEUP IN THE ESW SYSTEM DURING RESTORATION FROM THE SAFETY INJECTION SIGNAL WHICH ALLOWED SERVICE WATER TO BE TRANSFERRED FROM THE COOLING TOWER BASIN TO THE ULTIMATE HEAT SINK RETENTION POND. ALL OF THE ABOVE EVENTS APPEAR TO HAVE BEEN CAUSED BY INADVERTENT ACTIONS OF INSTRUMENT AND CONTROL TECHNICIANS AND CONTROL ROOM OPERATORS. THE SENIOR RESIDENT INSPECTOR IS REVISING THE EVENTS AND IS FOLLOWING THE LICENSEE'S CORRECTIVE ACTIONS.

FACILITY/ICELI... NOTIFICATION
DIVISION OF PRODUCTS & RESIDENT PROGRAMS
CALLAWAY TELECON FROM SRI
ON 6/04/84

1.

Report to Operations Center

DATE OF EVENT - 07/04/84 TIME OF EVENT - 1610
DATE OF NOTIFICATION - 07/04/84 TIME OF NOTIFICATION - 1858

FACILITY NAME - CALLAWAY 1 REGION - 3
TYPE OF FACILITY - POWER REACTOR

LICENSEE EVENT CLASSIFICATION - 10 CFR 50.72 REPORTABLE EVENT, NON EMERGENCY
CATEGORIES OF EVENT - ESF ACTUATION LOSS OF POWER

CAUSE OF FAILURE - UNKNOWN

RADIOACTIVE RELEASES NO

EVENT DESCRIPTION -
AT 1610 RECEIVED CONTROL ROOM VENTILATION AND CONTAINMENT PURGE ISOLATION SIGNALS. FOUND TO BE DUE TO OPEN POWER SUPPLY BREAKERS ON 3 PROCESS MONITORS; ALL FED FROM A SINGLE 120V DIST PANEL. REASON FOR OPEN BREAKERS IS UNKNOWN. THESE BREAKERS APPEAR TO BE OPENED, NOT TRIPPED. ESFAS RESET, ISOLATION SIGNALS CLEARED AND INCREASED SECURITY PATROLS IN ROOM WITH BREAKERS.

ACTION TAKEN BY HDO/RDO - REG 3, D. DANIELSON
PERSON NOTIFYING NRC - R. LAMB
PERSON ENTERING REPORT - BAILEY

2. W
DAILY REPORT-RIII

- 2 -

07/06/84

FACILITY/LICENSEE

NOTIFICATION

ITEM OR EVENT

REGULATORY ACTION

DIVISION OF REACTOR PROJECTS (CONTINUED)

CALLAWAY

TELECON FROM HQ DUTY
OFFICER ON 7/4/84

AT 1510 CDT ON 7/4/84, CONTROL ROOM VENTILATION AND
CONTAINMENT PURGE ISOLATION SIGNALS WERE INITIATED
DUE TO A LOSS OF POWER TO THREE PROCESS RADIATION
MONITORS. FURTHER INVESTIGATION BY THE PLANT STAFF,
REVEALED MANUALLY OPENED, RATHER THAN TRIPPED, POWER
SUPPLY BREAKERS IN THE 120 V DISTRIBUTION PANEL WHICH
SUPPLIES THE RADIATION MONITORS. THE LICENSEE IS
INVESTIGATING.

A RIII SAFEGUARDS
INSPECTOR WAS
DISPATCHED TO THE
PLANT TO FOLLOW THE
LICENSEE'S
INVESTIGATION.

July 4 This refers to a 10 CFR 50.72 reportable event which occurred
(LER 84-11) at 1510 CDT on July 4, 1984. Control room ventilation and
 containment purge isolation signals were initiated due to a
 loss of power to three process radiation monitors. Further
 investigation by your staff revealed manually opened, rather
 than tripped, power supply breakers in the 120V distribution
 panel which supplies the radiation monitors.

Based on discussions between you and Mr. C. E. Norelius of my
staff, it is our understanding that prior to the Plant
Manager's approval to take the reactor critical, you will:

(1) conduct a thorough investigation of this event to determine
the most probable causes; and (2) provide for NRC review and
acceptance, the results of your investigation and corrective
actions taken to prevent recurrence.

CAL issued.

July 5 Security Event
(LER 84-09)

July 5 Security Event
(LER 84-08)

EVENT NOTIFICATION
TIME OF NOTIFICATION: 1940 EDT EVENT TIME AND ZONE: 0118 EDT NRC REGION: III DATE: 7.4.84 CALL BACK NUMBER:
FACILITY OR ORGANIZATION: Callaway 2 CALLER'S NAME: Hg DO

EVENT CLASSIFICATION

- 1. 50.72 (NON-EMERGENCY)
- 2. UNPLANNED RELEASE
- 3. NOTIFICATION OF UNUSUAL EVENT
- 4. ALERT
- 5. SITE AREA EMERGENCY
- 6. GENERAL EMERGENCY
- 7. TRANSPORTATION EVENT
- 8. PHYSICAL SECURITY/SAFEGUARDS
- 9. OTHER

POWER REACTOR EVENT

POWER PRIOR TO EVENT? 0 POWER AT TIME OF REPORT? 0 RESIDENT INFORMED? _____
 TRIP? _____ INITIATING SIGNAL? _____
 SAFETY INJECTION OR ECCS? _____ INITIATING SIGNAL? _____
 ESF ACTUATION? _____
 LED ACTION STATEMENT? _____

EVENT DESCRIPTION/CALC:

Had large electrical storm. Loss electric eye for the high mass lighting (4 min) again at 0445 for 3 min. This investigated to assure security was not degraded.

At 1610 EDT received containment room ventilation isolation signal and a containment surge isolation signal. Upon investigation found there had lost power to 3 red monitors. Investigation revealed 120V distribution panel had all breakers open.

The breakers were reset and security is in place.

RADIOACTIVE RELEASES? (QUANTITY): _____
OTHER MAJOR PROBLEMS? _____

PLANNED ACTIONS/PRESS RELEASES?

OUTSIDE AGENCY OR PERSONNEL NOTIFIED BY LICENSEE: _____ STATE(S) _____ LOCAL _____

OTHER _____
DUTY OFFICER: Brosnan

CLASSIFICATION:

FACILITY: RANCHO SECO
NOTIFIED NRC: S. WHICHARD
ENTERED REPORT: BAILEY

REGION: 5 DATE OF EVENT: 07/04/84
DATE NOTIFIED: 07/04/84
TIME OF EVENT: 1229 ET
TIME NOTIFIED: 1229 ET

CATEGORY: UPDATE-

CAUSE: SG TUBE LEAK

HOO/RDO ACTION: REG 5: A. JOHNSON

DESCRIPTION: CALLED LICENSEE FOR PLANT STATUS-206F, 225 PSIG IN REACTOR COOLANT SYSTEM. GOING TO WET LAY UP IN BOTH SG.

CLASSIFICATION: 10 CFR 50.72 REPORTABLE EVENT, NON EMERGENCY

FACILITY: CALLAWAY 1
NOTIFIED NRC: R. LAMB
ENTERED REPORT: BAILEY

REGION: 3 DATE OF EVENT: 07/04/84
DATE NOTIFIED: 07/04/84
TIME OF EVENT: 1610 ET
TIME NOTIFIED: 1858 ET

CATEGORY: ESF ACTUATION-LOSS OF POWER

CAUSE: UNKNOWN

HOO/RDO ACTION: REG 3: D. DANIELSON

DESCRIPTION: AT 1610 RECEIVED CONTROL ROOM VENTILATION AND CONTAINMENT PURGE ISOLATION SIGNALS. FOUND TO BE DUE TO OPEN POWER SUPPLY BREAKERS ON 3 PROCESS MONITORS. ALL FED FROM A SINGLE 120V DIST PANEL. REASON FOR OPEN BREAKERS IS UNKNOWN. THESE BREAKERS APPEAR TO BE OPENED, NOT TRIPPED. ESFAS RESET, ISOLATION SIGNALS CLEARED AND INCREASED SECURITY PATROLS IN ROOM WITH BREAKERS.

CLASSIFICATION: PHYSICAL SECURITY/SAFEGUARDS

FACILITY: CALLAWAY 1
NOTIFIED NRC: R. LAMB
ENTERED REPORT: BAILEY

REGION: 3 DATE OF EVENT: 07/04/84
DATE NOTIFIED: 07/04/84
TIME OF EVENT: 1948 ET
TIME NOTIFIED: 2023 ET

CATEGORY: SECURITY-

CAUSE: ELECTRICAL FAILURE -SECURITY COMPUTER

HOO/RDO ACTION: REG 3: D. DANIELSON

DESCRIPTION: LOST SECURITY COMPUTERS FOR 3 SECONDS WHILE BRINGING SLAVE ON. REASON NOT FULLY UNDERSTOOD. COMPENSATORY MEASURES TAKEN. REACTOR AT ZERO POWER BOTH BEFORE AND AFTER THE EVENT.

CLASSIFICATION:

FACILITY: BEAVER VALLEY 1
NOTIFIED NRC: M. WAHLENMAYER
ENTERED REPORT: BAILEY

REGION: 1 DATE OF EVENT: 07/04/84
DATE NOTIFIED: 07/04/84
TIME OF EVENT: 2238 ET
TIME NOTIFIED: 2249 ET

- Callaway to notify ~~FRI~~ FRI.
- Check to call Small, Schnell...
- CAC for them to do outboard work.
Prior to criticality.
* Maint done over past few days.
Not ~~comes into play~~!

2nd
* Call - Calling for Computer + will take
* Stationed at Beaver
* Foreign Parting from Bus.

Don Pool / 7/5/84 1:30
* Gray Snavelly, Beaver District MGR. 3:00

Storm didn't cause breaker
to go off - Sabotage?
1758 COT.

Investigation on had anyone been around
there.
* Manually opened - Disoriented employee
having to work on 4 of July.
* Did other line up + surveillance to see
other problems - Recruit Security District
to see who was there
* A wise remark - "Happy 4th of July VE"
on Grafton's - some had meaning
* Not intell part act - some had meaning
* ~~the~~ Low level of knowledge.
* Breakers were manually opened.
Ops had been looked at.
Maint has not.
* Looking for common denominator
* Fire + Security didn't notice anything.

LER No.	Related IRs	Description	Date of Incident(s)	LER Date Due or (Submitted)	Type of Incident	Involved Dept(s)
<u>SECURITY (Cont.)</u>						
#84-023-00	84-0589	Moderate loss of security - loss of security hardware	8/4/84	8/9/84	Equipment	Security
<u>RADIATION MONITORS</u>						
84-003-00	84-0376 84-0513	Inadvertent ESF actuation through failure of radiation element GT-RE-22 by loss of power and initiation of Containment Purge Isolation and Control Room Vent Isolation signals	6/15/84 7/12/84	(7/16/84)	Equipment/ Procedure	Operations
84-004-00 (Note 2)	84-0385	Inadvertent ESF actuation apparently caused by I&C working on radiation element GT-RE-33 initiating CPIS and CRVIS	6/17/84	(7/16/84)	Personnel	I&C
84-006-00	84-0393	Loss of sample flow and inoperability of radiation monitor GT-RE-21B between 0803 and 1426; violation of Tech Specs	6/18/84	(7/18/84)	Personnel	Operations Health Phys
84-006-01	84-0393	Correction of typographical errors in LER-84-006-00	6/18/84	(7/25/84)	Personnel	Operations Health Phys
84-011-00	84-0459	Inadvertent ESF actuation through failure of radiation elements GK-RE-04, GT-RE-31, and GT-RE-33 by loss of power initiating Containment Purge Isolation signal and Control Room Vent Isolation signal	7/4/84	8/3/84	Personnel	Nuclear Opr
84-018-00	84-0536	Inadvertent ESF actuation from radiation monitors GK-RE-05 and GG-RE-27 (CRVIS and FBVIS)	7/18/84	8/17/84	Equipment	I&C

UNION ELECTRIC COMPANY
ST. LOUIS, MISSOURI

DONALD F. SCHNELL
VICE PRESIDENT

July 9, 1984

MAILING ADDRESS
P O BOX 149
ST. LOUIS, MISSOURI 63186

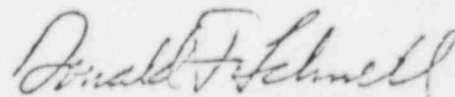
TO: All Personnel with Unescorted Access to the Callaway Plant

ACTS OF VANDALISM OR SABOTAGE

Receipt of an operating license places a responsibility on each of us that must be fully understood. Any malicious act of vandalism or sabotage at a nuclear power plant that could jeopardize the safety of the general public, plant personnel or plant safety is a violation of Federal and State laws and will be dealt with in a severe manner by Union Electric Company. You should be aware that penalties under the law may be extended to individuals who are passively involved (have information but fail to report it) as well as to those who are actively involved in acts of vandalism or sabotage. Unauthorized alteration of valve or breaker alignment is so categorized, irrespective of the actual consequences of the alteration. Such violations can involve penalties of up to \$10,000 and 10 years imprisonment.

I would hope that acts of this kind will not occur at Callaway. However, be advised that Union Electric Company will exercise the necessary resources including the use of plant security forces, as well as local, State and Federal law enforcement agencies in dealing with such acts. We call upon each of you to assist us in identification of any person engaged in unauthorized or suspicious activities which might be considered vandalism or sabotage. If you witness such an act or have information relevant to known or suspected acts of vandalism or sabotage, you are obliged to report it to your management.

I am sure that the vast majority of people at the site want to continue Callaway's reputation as an exceptional plant as we commence operation. Through your continuing cooperation, we can achieve this goal. I ask for your strong support in this matter which is crucial to the well-being of the Callaway Plant.


Donald F. Schnell

DFS/jjw