

June 19, 1984

5-AC FILE  
CALLAWAY

MEMORANDUM FOR: C. E. Norelius, Director, Division of Project  
and Resident Programs

FROM: C. H. Weil, Investigation and Compliance Specialist

SUBJECT: RECENT ALLEGATIONS AT CALLAWAY (50-483)  
(ATS NO. RIII-84-A-0081; RIII-84-A-0082)

On June 12, 1984, two allegeds were interviewed concerning the Callaway Nuclear Plant, and their information is summarized in the enclosed interview memoranda. The interviews were recorded by a certified court reporter, and the transcripts of the interviews are filed with the Region III Allegation Files.

On June 18, 1984, the allegers' information was coordinated with E. T. Pawlik, Director, Office of Investigations Region III Field Office. It was determined that investigation by OI:RIII was not warranted at this time as the issues alleged were too nonspecific. Therefore, these allegations have been assigned to your Division for final resolution/closeout. Should additional facts or information relating to possible wrongdoing concerning these allegations become available during your Division's inspection efforts, please notify me promptly.

A copy of this memorandum is being forwarded to the NRR Allegation Coordinator for NRR's information. A copy is also being provided to RIII:DRMSP, as a radiation exposure allegation was made during the course of one interview (RIII-84-A-0082).

*C. H. Weil*  
C. H. Weil  
Investigation and  
Compliance Specialist

Enclosures:

1. ATS Memo RIII-84-A-0081
2. ATS Memo RIII-84-A-0082

cc w/enclosures:

A. B. Davis  
R. F. Warnick  
W. L. Forney  
J. H. Neisler  
E. T. Pawlik  
R. Stark, NRR

8508190326 850722  
PDR FOIA  
VARRICC84-701 PDR

cc w/enclosure 2 only:

J. A. Hind  
W. L. Axelson  
D. G. Wiedeman

EXHIBIT 1

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INTERVIEW MEMORANDUM

ATS No. R111 94-A-0081

On June 12, 1984, an individual, employed at the Callaway Nuclear Plant, was interviewed in Columbia, Missouri. Present for the interview were W. L. Forney, Callaway Section Chief; J. H. Neisler, Senior Resident Inspector at Callaway; C. H. Weil, Investigation and Compliance Specialist, and Thomas E. Carpenter, Representing the Government Accountability Project (GAP). The interview was recorded by Patricia J. Rowe, Registered Court Reporter. The individual stated that he wished to remain anonymous. The individual was duly sworn, and the following information was summarized from the interview.

Work History

The individual has worked in construction for approximately twelve years with five years experience in highway construction and seven years in hoisting work. The individual stated that he was employed in the construction department at Callaway. (Transcript Pages 5-6.)

Spring Beneath Fuel Building

The individual stated that he worked on the crew that put in the base rock beneath the Callaway Fuel Building, and he observed an excessive amount of moisture in the base rock. The individual stated that quality control inspectors checked the moisture of the rock and found the rock was too wet. The individual observed that the rock was still wet after the fill was complete. According to the individual the rock was wet even during dry periods in the summer and this lead him to believe that a spring existed beneath the base rock. (Transcript Pages 6; 13-15; and 21.)

Water Seepage

The individual noted that the bottom level of the Callaway Auxiliary Building leaked. The individual thought the source of the water may be the spring beneath the Fuel Building base rock. The leaks were stopped by using "waterplug." The individual observed that the Callaway Reactor, Fuel and Auxiliary Buildings were separated by "Rotofoam" and at the 1974' elevation the Auxiliary and Reactor Buildings were also separated by cork. He stated that the cork in a "hot room" on the 1974' elevation of Auxiliary Building was exposed and had been damaged by the water seepage. The individual was concerned that the water seeping into the cork in the "hot room" could become contaminated with radiation and then seep into the environment. The individual thought this concern could be corrected by installing a curb or wall in the "hot room" to deflect the water into the sewer. The individual made a sketch of this concern during the interview. The sketch was retained by W. L. Forney. (Transcript Pages 8-15; 21-25.)

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### Fuel Transfer Canal

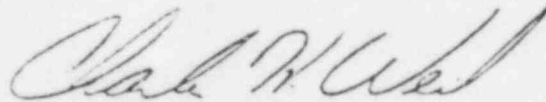
The individual stated he was involved in pouring concrete for a fuel transfer canal sump hole. The individual stated the tank that was placed in the hole was improperly mounted and the tank broke loose from the mounting studs. The individual described the mounting studs as being inadequate to hold the tank. The individual was also concerned that the repairs to the tank caused a concrete "cold joint" which could cause the tank plating to rupture. (Transcript Pages 15-21.)

### Cooling Tower

The individual also described a situation during a concrete pour for the site cooling tower's rink footers. The individual observed "mud boiling over the reinforcing rod." The individual continued to pour concrete at his foreman's direction, as the individual thought he would be disciplined for insubordination if he stopped pouring concrete. (Transcript Pages 25-26.)

### Interview Transcript

The original copy of the interview transcript is being retained in the Investigation and Compliance Specialist's files.



Charles H. Weil  
Investigation and  
Compliance Specialist

Enclosure: ATS Form

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INTERVIEW MEMORANDUM

ATS No. R111-84-A-0082

On June 12, 1984, a quality control inspector, employed at the Callaway Nuclear Plant, was interviewed in Columbia, Missouri. Present for the interview were W. L. Forney, Callaway Section Chief; J. H. Neisler, Senior Resident Inspector, Callaway; C. H. Weil, Investigation and Compliance Specialist, and Thomas E. Carpenter, representing the Government Accountability Project (GAP). The interview was recorded by Patricia J. Rowe, Registered Court Reporter. The inspector requested confidentiality and it was granted. The individual was duly sworn and the following information was summarized from the interview. The individual was concerned about radiation escaping into the environment. (Transcript Page 3.)

Work History

The inspector has been employed in the Callaway quality department in excess of five years. (Transcript Pages 2-3.)

Liner Plate Welds

During the Fall 1983, a laborer (NFI) told the inspector that reactor dome liner sheet welds were corroded from acid in the air. The welds were described as having no weld metal left and "places you could stick a pencil in." (Transcript Pages 3-4; 15-17.)

Concrete Voids

During 1980, a concrete inspector (NFI) told the inspector of voids in the Reactor Building liner plate. The concrete inspector "took a piece of rebar and knocked on the plates... could tell the difference with the hollow ring effect in some places." The inspector thought this observation was made on Reactor Building West - elevation 2047' and possibly lower on the "same side." (Transcript Pages 4; 17-19.)

Winter Concrete Pours

During the Winter 1982-83, the inspector overheard concrete inspectors complaining of concrete being poured on top of ice. The concrete pours were for outside slabs and some attempts were made to remove the ice. The inspector noted that "sometimes they would meet their temperature requirements by having it covered... take the air temperature. And if it was over 40° they would pour concrete, but yet the ground was frozen solid, but it was documented as acceptable temperature..." The inspector did not know if nonconformance or deficiency reports were ever written on this condition. (Transcript Pages 5; 19-22.)

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### Mud in Concrete Forms

The following Spring (1983) the inspector observed that a concrete pour had begun on "a wall on a cooling tower building" (possibly a pump house) without having mud cleared from the forms. The inspector noted that approximately 4" - 12" of mud stood in the forms before it was cleared out. (Transcript Pages 5-6; 23-24.)

### Electrical Cables

1. Installed and approved electrical cables in the Auxiliary and Diesel Generator Building were damaged by people climbing on the cables. This "traffic" caused damage to the cable jackets. The inspector recalled observing this condition on black colored cables in the Auxiliary Building.
2. The inspector also stated that in 1980-81 cables were sabotaged (cut). (Transcript Pages 6-7; 24-30.)

### Structural Steel Bolting

1. Structural steel was installed, bolted and inspected; however, the crafts later removed the steel and bolts to move in equipment. The steel and bolts were reinstalled, but were not reinspected. These bolts and steel which were not reinspected were covered over with concrete or spray coating. This occurred in at least the Diesel Generator Building. (Transcript Pages 7-8; 30-31.)
2. The inspector twice assisted in inspections of structural steel bolt torque and found the bolts were overtorques. Reinspections of the plates found that not only was the torque improper, but also that the wrong nuts and bolts had been used. The reinspections also found the wrong projection existed. (Transcript pages 31-32.)
3. Many times the holes were drilled oblong, instead of round, into the steel plates. This condition could not be readily determined as washers covered the holes. This "went on for a long time before they decided it was a problem" and reinspections made. (Transcript Pages 50-52.)

### Welding Inspections

1. QCP 113 required the welding department to notify quality control wherever structural steel was to be welded. The common joke was that the crafts called quality control in 1975 and have not called since. Therefore, the welders "just went around and welded wherever they wanted to." (Transcript Pages 9; 32-33.)
2. Regarding the above allegation, "a lot of these places were concreted without the welds being checked. And when they found there was some problem with it, they went to the welding inspectors with the concrete pour cards and said, 'We've got to have a welding inspection on this.' There are some inspectors that just signed them right off, never left the office...." (Transcript Pages 9-10; 33-35.)

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### Water Leaks

1. "They have had a lot of problem with the water in lower levels of the building, and they constantly have to pump them out. And in big rains I've seen down in lower levels they had a whole bunch of cables going outside and water just pouring in there...." (Transcript Pages 10; 36.)
2. Drains were stopped up because of the weight on top of the drains. Also drains were broken because of the heavy equipment run over the top of the drains. (Transcript Page 10.)
3. "Problem in the waste water where they had this surge in water. Everytime it rains they have this massive water flow through the well. I don't know if you call it effluent or sewage system...they've never been able to identify where it comes from... they've been looking at it for years." (Transcript Pages 36-38.)

### Lost Plans

"...they lost all the plans for the plumbing." (Transcript Pages 10-11; 38.)

### Inspector Certifications

1. No inspector "training program existed at Callaway until recently." (Transcript Page 11.)
2. Until three years ago cheating was done on inspector certification exams. Answers were given, test takers were coached, and copies of exams were available before the exam was administered. (Transcript Pages 11-12; 38-41.)
3. Daniels International conducted an investigation into the test cheating and three people who truthfully answered the questions were fired. (Transcript Pages 12-13; 45-46.)

### Deficiency Reports

"Deficiency reports are virtually extinct out there. They just always rework and don't write deficiency reports. I don't know if I should say they rework but...is common practice not to write deficiency reports, just try to get it to meet inspection requirements and not reject it at first." "They just don't want to write DRs. It makes it look bad and they think...it looks bad for their department...Plus it's too much work and they'd rather not do it. If they find something they will just have the crafts keep doing it until they think it's good enough to sign off...." (Transcript Pages 21; 49-50.)

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### Fuel Pool Liner

At about the time the fuel pool was to be tested a hole was found in the liner. The inspector described the hole as "six inches wide, welded through the liner of fuel pool. But I'm sure they fixed that because they had to test it to hold water..." The inspector thought this hole may have been sabotaged as "they just had it finished, just had it cleaned...I didn't really hear this sabotage. We kind a assumed it was--that somebody-- the official word going through the bosses was that a welder fell against it..." (Transcript Pages 29; 52-53.)

### Radiation Exposure

The inspector stated that he was intentionally exposed to radiation from a radiographers' sources. "They...keep aiming these radiograph X-ray machines at me.... It happened a couple more times...I'd go in a little place and I'd come back out and it would be on the opposite wall.... They weren't taking any pictures. I asked them. And a couple of times I'd just walk by and they flashed an X-ray machine at me, I assume just to give me radiation...." The inspector stated these incidents were not related to his job as a quality control inspector, but because he "was in an environmental group...somebody... thought they'd run me off."

The original copy of the interview transcript is being retained in the Investigation and Compliance Specialist's files.



Charles H. Weil  
Investigation and  
Compliance Specialist

Enclosure: ATS Form

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(Check appropriate box(es) )

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|-------------------------------------|-----------------------|--------------------------|---------------------------|
| <input type="checkbox"/>            | operations            | <input type="checkbox"/> | onsite health and safety  |
| <input checked="" type="checkbox"/> | construction          | <input type="checkbox"/> | offsite health and safety |
| <input type="checkbox"/>            | safeguards            | <input type="checkbox"/> | emergency preparedness    |
| <input type="checkbox"/>            | other (Specify) _____ |                          |                           |

(Limit to 100 characters)

SPRING BENEATH FUEL BLDG;  
WATER SEEPAGE IN AUXILIAR  
Y BLDG; MUD IN COOLING TO  
WER CONCRETE POUR. (3)

(Check appropriate box)

- contractor employee ☐ security guard ☐  
 licensee employee ☐ news media ☐  
 NRC employee ☐ private citizen ☐  
 organization (Specify) GOVERNMENT ACCOUNTABILITY PROJECT  
 other (Specify) ANONYMOUS

## MM DD YY

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(First two initials and last name)

C. H. West

R	I	I	I
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**ACTION OFFICE**

(First two initials and last name)

W. L. Forney

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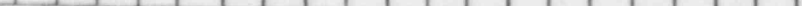
(Check one)

- ☒ Open, if followup actions are pending or in progress  
☐ Closed, if followup actions are completed

## MM DD YY

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(Limit to 50 characters)



## Office

Year:

Number

RIII-84-A-0081

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CALLAWAY

050 00483

2. Functional Area(s) Involved:  
(Check appropriate box(es))

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☐  
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operations  
construction  
safeguards  
other (Specify) \_\_\_\_\_

☐  
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onsite health and safety  
offsite health and safety  
emergency preparedness

3. Description:  
(Limit to 100 characters)

22 ALLEGATIONS: LINER PLAT  
E-1; CONCRETE-3; CABLE DAMA  
GE-2 STRUCTURAL BOLTING-3  
WELD INSP-2; WATER LEAKS-

4. Source of Allegation:  
(Check appropriate box)

☒  
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contractor employee  
licensee employee  
NRC employee  
organization (Specify) \_\_\_\_\_  
other (Specify) \_\_\_\_\_

☐  
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security guard  
news media  
private citizen

GOVERNMENT ACCOUNTABILITY PROJECT

5. Date Allegation Received:

MM DD YY  
06 12 84

6. Name of Individual  
Receiving Allegation:

(First two initials and last name)

C.H. WEIL

7. Office:

RIII

## ACTION OFFICE

8. Action Office Contact:

(First two initials and last name)

W. L. FORNEY

9. FTS Telephone Number:

388-5590

10. Status:  
(Check one)

☒  
☐

Open, if followup actions are pending or in progress  
Closed, if followup actions are completed

11. Date Closed:

MM DD YY  
[ ] [ ] [ ] [ ] [ ] [ ]

12. Remarks:  
(Limit to 50 characters)

TITLE  
CONTINUED

3; LOST PLANS-1; INSPECTOR  
CERTS-3; INSP. REPORTS-1

DEFICIENCY REPORTS-1; FUEL POOL LINER-1; RADIATION  
EXPOSURE-1.

13. Allegation Number:

RIII-84-A-0082

All