



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

March 6, 2002

Garry L. Randolph, Senior Vice  
President and Chief Nuclear Officer  
Union Electric Company  
P.O. Box 620  
Fulton, Missouri 65251

SUBJECT: PUBLIC EXIT MEETING SUMMARY: PRELIMINARY RESULTS OF  
AUGMENTED INSPECTION TEAM 50-483/2002-07

Dear Mr. Randolph:


This refers to the public exit meeting conducted in the Callaway Plant Emergency Operations Facility on February 27, 2002. This meeting was held to discuss performance issues identified during the augmented inspection team conducted between January 28 and February 6, 2002. The inspection was performed to evaluate the root causes and corrective actions associated with the failure of an auxiliary feedwater pump on December 3, 2001.

The attendance list and presentation material are enclosed (Enclosures 1 through 3).

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Reading Room).

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

*for*   
Arthur T. Howell III, Director  
Division of Reactor Safety

Docket No.: 50-483  
License No.: NPF-30

Union Electric Company

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Enclosures:

1. Attendance List
2. NRC Presentation Material
3. Licensee Presentation Material

cc w/enclosures:

Professional Nuclear Consulting, Inc.  
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Manager - Electric Department  
Missouri Public Service Commission  
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Otto L. Maynard, President and  
Chief Executive Officer  
Wolf Creek Nuclear Operating Corporation  
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Dan I. Bolef, President  
Kay Drey, Representative  
Board of Directors Coalition  
for the Environment  
6267 Delmar Boulevard  
University City, Missouri 63130

Union Electric Company

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Lee Fritz, Presiding Commissioner  
Callaway County Courthouse  
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J. V. Laux, Manager  
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Jerry Uhlmann, Director  
State Emergency Management Agency  
P.O. Box 116  
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Fulton, Missouri 65251

Electronic distribution by RIV:  
 Regional Administrator (**EWM**)  
 DRP Director (**KEB**)  
 DRS Director (**ATH**)  
 DRS Senior Technical Analyst (**DAP**)  
 Senior Resident Inspector (**VGG**)  
 Branch Chief, DRP/B (**WDJ**)  
 Senior Project Engineer, DRP/B (**RAK1**)  
 Staff Chief, DRP/TSS (**PHH**)  
 RITS Coordinator (**NBH**)

Only inspection reports to the following:  
 Scott Morris (**SAM1**)  
 CWY Site Secretary (**DVY**)

DOCUMENT: R:\_CW/2002/CW2002-07MS-TWP.WPD

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

E=E-mail

F=Fax

\*Previously concurred.

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DRS Director (**ATH**)  
Senior Resident Inspector (**VGG**)  
Branch Chief, DRP/B (**WDJ**)  
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## ENCLOSURE 1

### ATTENDANCE LIST

R. Affolter, Ameren UE  
L. Becker, Ameren UE  
J. Blosser, Manager, Ameren UE  
R. Bruzinski, KTVI  
M. Cleary, Ameren Services  
B. Cosgrave, KFKU  
C. Czeschin, Ameren UE  
K. Drey, Missouri Coalition for the Environment  
K. Friesz, Ameren UE  
L. Fritz, Callaway Co. Commission  
V. Gaddy, NRC  
R. Garnett, Callaway Co. Commission  
J. Gloe, Ameren UE  
D. Grazier, KMIZ  
T. Handlan, Westinghouse  
J. Hanna, NRC  
T. Harris, Wolf Creek  
B. Henderson, NRC  
T. Herrmann, Ameren UE  
K. Hilgedick, Jefferson City News Tribune  
T. Hoeg, NRC  
D. Hollabaugh, Ameren UE  
L. Kanuckel, Ameren UE  
R. Lamb, Ameren UE  
J. Laux, Ameren UE  
B. Maier, NRC  
E. Merschoff, NRC  
T. Moser, Superintendent, Ameren  
R. Nelson, Ameren UE  
D. Neterer, Ameren UE  
J. Neudecker, Ameren UE  
E. Olson, Ameren UE  
S. Petzel, Ameren UE  
C. Powell, Ameren UE  
D. Powers, NRC  
T. Pruett, NRC  
G. Randolph, Ameren UE  
M. Reidmeyer, Ameren UE  
C. Resmier, KTVL  
D. Rist, Ameren UE  
R. Roseling, Ameren UE  
D. Salter, HGP, Inc.  
D. Shafer, Ameren UE  
M. Taylor, Manager, Ameren UE  
C. Troks, Columbia Missourian

L. Van Hoser, Columbia Tribune  
M. Walz, Ameren UE  
R. Wink, Ameren UE  
R. Wright, Missouri Coalition for the Environment  
W. Witt, Ameren UE

**ENCLOSURE 2**

NRC PRESENTATION MATERIAL



## Opening Remarks

- Purpose of Meeting
- Initial Decision to Perform Special Inspection
- Upgrade to Augmented Inspection Team
- Introduction of NRC Personnel
- Introduction of Licensee Personnel

## Description of Event and Chronology

- Event Description
- Sequence of Events
- Operator Response to Event

## Root Cause of Equipment Failures

- Auxiliary Feedwater Pump A
- Condensate Storage Tank Diaphragm

## Operating Experience

- Overview of Information Notice 91-82
- Callaway Response to Information Notice 91-82

## Condensate Storage Tank Modifications

- Nitrogen Affect on CST Diaphragm Seal
- Nitrogen Affect on Net Positive Suction Head

## Adequacy of Corrective Actions

- General Corrective Action Program Issues
- Adequacy of Corrective Actions Associated With Root Causes
- Operability Evaluations
- Quality Assurance Involvement
- System Inspections to Demonstrate Operability

## Risk Significance of Event

- Assumptions Used in Analysis
- Preliminary Significance Determination

## Concluding Remarks

- Licensee Response
- NRC Concluding Comments



**ENCLOSURE 3**

LICENSEE PRESENTATION MATERIAL



ENCLOSURE 3

# **NRC Augmented Inspection Team Exit Meeting**

**February 27, 2002**

**AmerenUE Response**



## Overview of Event

### Complexity of Issue

- **Gas vented**
- **No permanent blockage**
- **No vibration increase**

### Actions to Resolve

- **Focus on gas binding**
- **Solicited expert support**



## Response to NRC Conclusions

### General Agreement with NRC Conclusions

- **Corrective action opportunities to improve**
- **General concurrence with NRC risk assessment**



## Future Benefits of the Event

### Event Response

- Condensate storage tank floating cover removed
- System and condensate storage tank thoroughly inspected
- System tested

### Long-Term Improvement

- Programmatic improvement
- Organizational value