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50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

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SUBJECT: Forwards quarterly update of status of commitments provided in 930429 & 0728 ltrs resulting from 921019 loss of offsite power event. Completion date for commitment in response to Finding 6a in subj insp repts will be shifted to 931130.

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DUKE POWER

October 28, 1993

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269,-270,-287
Corrective Action for October 19, 1992 Loss of Offsite Power
Reply to EDSFI Findings (Inspection Report 50-269,-270,-
287/93-02)

My letters of April 29, 1993 and July 28, 1993 provided a summary of commitments resulting from the subject event. Attached is the quarterly update of the status of these commitments. In Item 8, the preventative maintenance program for MG-6 relays has been removed from the commitment list. This decision was made following an inspection of the relays, a review of the past failure history, an analysis of the failed relay and a review of other utility PM programs. This decision is documented in the corrective action for PIP 0-092-0521.

My response to the Finding 6a in Inspection Report 50-269,-270,-287/93-02 included the commitment to provide a test tee and valve in order to test pressure switch 63F on the Keowee Hydro Station CO₂ system. As discussed with the Region staff, this modification will not be implemented on the originally scheduled date due to higher priority activities at Keowee. The modification completion date will be shifted from 09/01/93 to 11/30/93.

Very Truly Yours,

J. W. Hampton

xc: L. A. Wiens, Project Manager
ONRR

P. E. Harmon, Senior Resident Inspector
Oconee Nuclear Station

S. D. Ebnetter, Regional Administrator
Region II

JE01

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
ATTACHMENT

Commitments from October 19, 1992 Event

Commitments from October 19, 1992 Event

Schedule

1. Evaluation of NRC communications applicable to Keowee with schedule for resolution 1/31/94

Switchyard Equipment, Design and Testing Commitments:

2. Switchyard battery charger testing Completed 6/93
3. Switchyard breaker failure relay modifications Completed prior to Oconee 2 restart
4. Switchyard synchroscope repair Completed 2/24/93, Tested 3/16/93
5. Overhead emergency power path integrated test Completed 5/93

Keowee Auxiliary Power System Equipment, Design, and Testing Commitments:

6. Westinghouse DB breaker modifications to provide electrical anti-pump logic Completed 7/92 (Keowee Unit 1)
Completed 11/92 (Keowee Unit 2)
7. Westinghouse DB breaker modifications to add time delay in breaker closing circuit (allows closing with reduced DC voltage) Completed 12/92
8. MG-6 relay review for repair and PM program Review completed:
7/93 (Keowee)
2/93 (Oconee Unit 1)
6/93 (Oconee Unit 2)
Next refueling outage (Oconee Unit 3)
9. MG-6 relay replacement in Keowee auxiliary transfer circuits Completed September 1993
10. Keowee auxiliary bus transfer logic modification Completed September 1993
11. Keowee auxiliary bus transfer logic timing circuitry testing Completed September 1993
12. Keowee black start test Completed December 1992

Keowee Unit Protection Equipment, Design and Testing Commitments:

Schedule:

- | | | |
|-----|---|--|
| 13. | Trip function on low voltage at main step-up transformer modification not to affect operating Keowee Unit | Completed November 2, 1992 |
| 14. | Deletion of speed switch from field circuits | Completed July 1992
(Keowee Unit 1)
Completed November 1992
(Keowee Unit 2) |
| 15. | Keowee load rejection test while aligned to grid | Completed October 25, 1992 |
| 16. | Keowee zone relay protection single failure vulnerability | December 1994 (currently administratively controlled) |

Other Keowee support items Equipment, Design and Testing Commitments:

- | | | |
|-----|---|--|
| 17. | Keowee computer typer connection to computer power supply inverter | Completed prior to Oconee 2 restart |
| 18. | Keowee statalarm modification to power from uninterruptible source | Completed January 29, 1993 |
| 19. | Events recorder replacement
- Switchyard
- Keowee
- Oconee | December 1993
December 1994
October 1994 |
| 20. | Review of IEB 79-27 related power supplies | Completed January 28, 1993 |

Communications Equipment:

- | | | |
|-----|---|-------------------------|
| 21. | Facility telephone system cable and battery backup | Completed March 1993 |
| 22. | Base radio system from Keowee control room to Oconee control room | Completed November 1992 |
| 23. | Hand held radios capable of transmitting from the Keowee generator floor to the Oconee control room | Completed November 1992 |

Keowee Operator Training Upgrade Plan

Schedule:

- | | | |
|-----|--|-------------------------|
| 24. | Keowee personnel training on requirements of Operations Management Procedure 5-2, "Duties and Responsibilities of Keowee Station Personnel" | Completed November 1992 |
| 25. | Task Qualification of Keowee operators to all Keowee operating, testing and maintenance procedures relating to the emergency operation of Keowee | Completed November 1992 |
| 26. | Job Analysis | Completed May 1993 |
| 27. | Task Analysis (includes lesson plan development and/or training and qualification guide) | Completed August, 1993 |
| 28. | Individual operator knowledge and skills assessment and upgrade | December, 1993 |

Keowee Emergency Response Procedure

- | | | |
|-----|---|------------------------|
| 29. | "Emergency Start Actuated" indicating light added to Keowee control boards. | Completed October 1992 |
| 30. | Keowee EOP | Completed October 1992 |

Keowee Emergency Response Training

- | | | |
|-----|---|-------------------------|
| 31. | Job Performance Measures (JPMs) developed to verify loss of auxiliary power or supply of power to Oconee from Keowee scenarios | Completed November 1992 |
| 32. | All Keowee personnel trained and qualified to all 5 JPMs | Completed November 1992 |
| 33. | Oconee licensed operators given walk-through training on these JPMs | Since October 1992 |
| 34. | Refresher training for Oconee operators to perform remote startup and operation of Keowee from the Oconee control room | Completed June 1993 |
| 35. | All Oconee shift operators (licensed and non-licensed) to be qualified to task 001745801, "Perform Required Actions for an Emergency Start of the Keowee Hydro Units" | Completed August 1993 |

Oconee Loss of Offsite Power Procedure

Schedule:

- | | | |
|-----|---|-------------------------|
| 36. | Revised to include all steps necessary to recover offsite power to Oconee | Completed December 1992 |
| 37. | Revised to include both dead bus and live bus transfer options | Completed December 1992 |
| 38. | Live bus transfer functionally tested and verified | Completed March 1993 |