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SUBJECT: Forwards quarterly update of status of commitments in response to 921019 loss of offsite power.

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DUKE POWER

July 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

My letter of April 29, 1993 provided a summary of commitments resulting from the subject event. Attached is the quarterly update of the status of these commitments. As discussed with the NRC staff on July 8, 1993 and July 13, 1993 the following information describes changes in these commitments:

- Keowee auxiliary bus transfer logic modification (see item numbers 9, 10, and 11 in the attachment). The schedule for this modification has been revised from July 8, 1993 to September 1993 in order to procure the necessary relays. Replacement of MG-6 relays in this circuitry has therefore been rescheduled to September 1993. The schedule for testing of the modified circuitry has also been revised to October 1993.
- Keowee overspeed switch setpoint revision. In order to implement changes to the overspeed switch, analysis of frequency transient effects on Keowee auxiliaries is required. Concerns associated with the overspeed switch are currently addressed by administrative controls on Keowee generator output. Documentation of this analysis is scheduled to be complete by March 30, 1994 in response to EDSFI Finding 2-f. As this commitment is being tracked as part of the EDSFI response, it will be dropped from this list.
- Keowee Operator Training Upgrade Plan - Job and Task Analysis (see items 26 and 27). The "job analysis" was completed on May 13, 1993, however as the "task analysis" is being performed, the accompanying lesson plan and/or training and qualification guide is being developed. Thus, the schedule for completion of the task analysis has been revised to August 1993 consistent with the lesson plan and training and qualification guide schedule.
- Keowee Operator Training Upgrade Plan - individual operator knowledge and skills assessment and upgrade (see item 28). This commitment is unchanged, however the following information clarifies the scope. Assessment will consist of a Subject Matter Expert (Supervision at Keowee) evaluating each operator against each task, based on knowledge of the operator's abilities and skills. This knowledge has been acquired through observation of past performance of the operator. This evaluation will be used to determine if the operator is qualified to perform the task or if training is required for the operator to qualify

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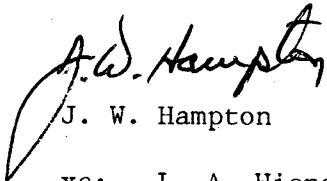
to the task. The Upgrade will consist of qualifying the operator to those tasks that the SMEs have determined the operator is not qualified to.

- Keowee Emergency Response Training - Job Performance Measures (see item 31). This commitment is clarified to identify the scope of JPMs developed by November 1992. Specifically, the JPMs were developed to verify loss of auxiliary power or supply of power to Oconee from Keowee scenarios.
- Keowee Emergency Response Training - qualification of Oconee shift operators to Keowee auxiliary power JPMs (see item 35). This commitment is clarified to identify the tasks the Oconee shift operators (licensed and non-licensed) will be qualified to. A task was created to train and qualify the Oconee operators to perform any required functions to respond to Keowee during an Emergency Start. This task is an Oconee operator's task and will ensure they are qualified to respond to Keowee as needed.

The following additional clarifications are also included:

- Keowee Operator Training Upgrade Plan (see items 24 and 25). Keowee personnel were trained to the requirements of the Operations Management Procedure for Duties and Responsibilities of Keowee Station Personnel. In addition, it was clarified that the Keowee operators have been task qualified to the operating, testing, and maintenance procedures relating to the emergency operation of Keowee. The previous wording could be interpreted to imply all Keowee operators were task qualified to all operating, testing, and maintenance procedures which would include normal, non-emergency procedures. For these normal procedures, qualified supervision are available on site or on call to direct in the performance of these task in the event the operator on shift is not task qualified for the specific task.

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

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)
PM Program under review
9. MG-6 relay replacement in Keowee auxiliary transfer circuits September 1993
10. Keowee auxiliary bus transfer logic modification September 1993
11. Keowee auxiliary bus transfer logic timing circuitry testing October 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) | 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 | August 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" | 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 |