



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 14, 1994

Docket Nos. 50-413
and 50-414

LICENSEE: Duke Power Company

FACILITY: Catawba Nuclear Station, Units 1 and 2

SUBJECT: SUMMARY OF FEBRUARY 7, 1994, MEETING WITH DUKE POWER COMPANY ON
BREAKER COORDINATION

Introduction

On February 7, 1994, members of the NRC staff met with representatives of the Duke Power Company (DPC) to discuss the breaker coordination issue that was addressed in the NRC letter to DPC dated December 6, 1993. Attendees were A. Dickard, J. Glasser, A. Bhatnager, and J. Thomas for DPC and E. Weiss, C. Morris, and R. Martin for the NRC staff.

Discussion

The Electrical Distribution System Functional Inspection at Catawba, Inspection Report No. 50-413, 414/92-01, identified breaker coordination deficiencies in the 600 volt motor control centers and the 125 volt dc (vdc) vital I and C power system. The staff had requested that DPC provide a list of all uncoordinated breakers, their location, and current versus time curves for calculated fault currents.

Potential faults on the 125 vdc system were discussed including at the battery charger. DPC stated that, since the system is an ungrounded system, single line faults would not disable the system. Further, these would be annunciated in the control room and would be responded to. Double faults (or line to line faults) were then discussed. DPC stated that they were not aware that any such faults had ever occurred at either of the three Duke nuclear stations and that this was based on a search of the applicable data for the plants. Based on this and the virtually complete usage of PVC coated armored cable, DPC stated that they considered double faults to be highly unlikely. The methodology of DPC's calculation of fault currents, the location of the subject breakers, and current versus time calculations were discussed. The staff clarified the type and the extent of the information that should be submitted to enable the staff to continue its review of this concern. Discussions on the parallel topics for the 600 volt system were also held.

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Conclusion

DPC indicated that they would provide a schedule during the week of February 7 for the submittal of this information. The NRC staff considered that this meeting accomplished its purpose in clarifying the additional information needed to continue the review of this issue.

Original signed by:
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