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MEMORANDUM FOR: Richard H. Vollmer, Director, Division of Engineering
 FROM: Roger J. Mattson, Director, Division of Systems Integration
 SUBJECT: POSITION STATEMENT ON ALLOWABLE REPAIRS FOR ALTERNATIVE SHUTDOWN AND ON THE APPENDIX R REQUIREMENT FOR TIME REQUIRED TO ACHIEVE COLD SHUTDOWN

Some licensees have experienced difficulties in interpreting two areas of Sections III.G and III.L. The purpose of this memorandum is to inform you of these two areas and interpretations which we believe are needed. These interpretations pertain to the (1) allowable repairs to achieve safe shutdown and (2) allowable time to achieve safe shutdown. The interpretations which follow are not new. We request your concurrence in this matter.

Allowable Repairs to Achieve Safe Shutdown

Section III.G.1 of Appendix R states that one train of systems needed for hot shutdown must be free of fire damage. Thus, one train of systems needed for hot shutdown must be operable during and following a fire. Operability of the hot shutdown systems, including the ability to overcome a fire or fire suppressant induced maloperation of hot shutdown equipment and the plant's power distribution system, must exist without repairs. Manual operation of valves, switches and circuit breakers is allowed to operate equipment and isolate systems and is not considered a repair. However, the removal of fuses for isolation is not permitted. All manual operations must be achievable prior to the fire or fire suppressant induced maloperations reaching an unrecoverable plant condition.

Modifications, e.g., wiring changes, are allowed to systems and/or components not used for hot shutdown, but whose fire or fire suppressant induced maloperations may indirectly affect hot shutdown. These repairs must be achievable prior to the maloperations causing an unrecoverable plant condition.

Repairs for cold shutdown systems are allowed by Section III.L.5 of Appendix R. For cold shutdown capability repairs, the removal of fuses for isolation and the replacement of cabling is permitted. Also, selected equipment replacement, e.g., such as replacing a valve, pump, control room controls and instruments, will be reviewed on a case-by-case basis to verify its practicality within the appropriate time constraints. Procedures for repairing damaged equipment should be prepared in advance with replacement equipment (i.e., cables

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*SEE PREVIOUS CONCURRENCE.

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