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Surry Power Station, Unit 1  
Docket No. 50-280  
Report No. 80-018/01T-0  
Event Date: 02/19/80

Title of Report: Excessive Stress on I.E. Bulletin 79-14 Lines Inside Containmentment

1. Description of Event:

During the pipe stress reanalysis it was determined that an overstressed condition would be imposed upon the containment piping penetrations for lines 3"-RL-6-152, 3"-CH-99-152, should a Design Basis Earthquake be experienced. This event is reportable in accordance with T.S. 6.6.2.a.9.

2. Probable Consequences & Status of Redundant Systems:

Left uncorrected, the problem could have led to a loss of containment integrity.

3. Cause:

The overstress condition was identified by the architect engineer in his reanalysis effort required by I.E. Bulletin 79-14, as an initial design inadequacy in the provision of constraints on the affected lines.

4. Immediate Corrective Action:

The unit was brought to a cold shutdown condition prior to the occurrence of a DBE so the health and safety of the public were not affected.

5. Subsequent Corrective Action:

The required constraints have been designed and will be installed prior to future reactor operation.

6. Future Corrective Action:

Further inadequacies, if any, in design features will be addressed in a similar fashion.

7. Generic Implications:

The reanalysis continues on all lines covered by I.E. Bulletin 79-14 and appropriate corrective actions will be taken if other overstressed conditions are identified.