



ADDITIONAL EVENT DESCRIPTION

During the early stages of the Bulletin 80-11 evaluation (September 1980) plant walls were inspected to verify that they were built as designed. 14 walls were found missing clip angles which tie them to surrounding structural members. Although the seismic evaluation had not been started, it was considered prudent to install the missing angles. 13 of the walls were completed by 12/28/80. The 14th wall, forming one side of a cubicle, has sufficient restraint outside the cubicle to preclude its falling outward. There is no safety related equipment inside this cubicle. Since the inner side of this wall is in an inaccessible high radiation area during operation, repair will be completed during the 1981 refueling outage. These walls could not be shown to meet the Bulletin 80-11 re-evaluation criteria without the angles so this is considered reportable.

On 1/23/81, our engineering department reported 3 walls which required strengthening. These 3 walls had no safety related equipment mounted on or supported by them but there is safety related equipment adjacent. Due to the nature and inherent strength of this equipment (metal enclosed seismic Class 1 cable trays and metal seismic Class 1 vent ducting), its location relative to the walls (passing through near the top of the walls or running vertically adjacent to the wall) and the fact that the probable failure mode (if any) was cracking or distortion rather than collapse, it was believed in our best engineering judgement that these 3 walls would not render any safety related equipment inoperable if there were to be a seismic event during the interim period required for reinforcement of the walls. Our schedule called for all 3 walls to be completed by midnight Friday 1/30/81. Due to various unforeseen difficulties, the last wall was actually completed at about 5 am Saturday, 1/31/81.

On Friday, 1/30/81, it was reported that an additional 19 walls required strengthened clip angles. It was also reported that other walls were in the last stages of analysis with final results in doubt. The engineering department worked to apply new detailed analysis techniques and to evaluate the safety significance of any walls found not to meet the re-evaluation criteria. Of the 19 identified on 1/30/81, three were confirmed to need strengthened clip angles on 1/31/81 and 2/1/81. Two were reinforced by 6 pm Sunday, (2/1/81) which was before the safety significance evaluation was completed. The third wall whose (potential) collapse was found not to have any adverse effects was completed Tuesday (2/3/81). The other 16 of the 19 did not require any modifications.

Of the remaining plant walls, some were found which would withstand design seismic events, but which required corrective action to restore the safety margin of Bulletin 79-02 for anchor bolts. Since these walls have been shown not to fail and since some are inaccessible high radiation areas at power, we have scheduled to complete corrective action by the end of our Fall, 1981 refueling outage.

REPORTABLE OCCURRENCE 335-81-03  
LICENSEE EVENT REPORT  
PAGE THREE

Finally, during review of the entire wall program, three wall sections over doorways were identified (2/4/81) which required strengthened clip angles. One wall had adjacent safety related metal seismic class 1 cable trays and conduit. Our best engineering judgment was that collapse of this three foot wide section would not render any safety related equipment inoperable. This wall was modified by 4 pm 2/5/81. The other two had been conservatively designated safety related in error as there is no mounted or adjacent safety related equipment. These walls will be modified, however, by the end of the 1981 refueling outage.

The following is a summary of walls that were corrected. Details of the re-evaluation and corrective actions taken have been reported in our final response to IE Bulletin 80-11.

1. Walls with missing clip angles 14  
13 have been modified - see  
previous discussion (identified Sept. 1980)
2. Walls requiring reinforcement 3  
completed by 5am 1/31/81  
(identified 1/23/81).
3. Walls requiring clip angle reinforcement 3  
completed by 2/3/81  
(3 of the 19 discussed on 1/30/81)
4. Walls requiring adding clip angles \*3  
(angles not required per original design)  
1 done by 2/3/81, 2 not safety related  
(identified 2/5/81)

A review of this occurrence under the provisions of Part 21, Title 10 of the Code of Federal Regulations has been accomplished and it has been determined that 1) Had certain of the affected walls not been modified, and 2) Had a seismic event occurred, and 3) Had these walls failed due to the seismic event, a substantial safety hazard could have been created since two trains of redundant safety related equipment could have been damaged or made inoperable by the failure of a single wall. This revised report is being submitted in accordance with the provisions of 10 CFR 21.

\* 2 of these conservatively designated safety related in error.