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Energy Systems

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NSD-NRC-97-4970
DCP/NRC07226
Docket No.: STN-52-003

February 10, 1997

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555

TO: T. R. QUAY

SUBJECT: KEY AP600 LICENSING ISSUE RESOLUTION: PROTECTION OF RTNSS
SYSTEMS FROM FLOODS AND MISSILES

- REFERENCES:
1. Letter from NRC to Westinghouse (Martin to Liparulo), "List of Key Licensing Issues on the AP600 Design", dated 12/6/96.
 2. WCAP-13856, "AP600 Implementation of the Regulatory Treatment of Non-Safety Related Systems", dated September 1993.
 3. Letter from Westinghouse to NRC, NSD-NRC-96-4867 Revision 1, "Regulatory Treatment of Non-Safety Related Systems (RTNSS) Status", dated 12/9/96.

Dear Mr. Quay:

Reference 1 provides a list of key licensing issues for the AP600. Item 2 of Reference 1 deals with Regulatory Treatment of Non-Safety Related Systems (RTNSS). The first part of Item 2(f) was addressed in References 2 and 3, which provided the Westinghouse input regarding what regulatory oversight is appropriate for RTNSS-important systems. This letter addresses the second part of Item 2(f) as follows.

Protection of RTNSS systems from internal and external floods, internally and externally generated missiles, and missiles generated by natural phenomena and pipe failures, is shown on the attached drawings, numbered 0000-GL-101 through 106. Although the AP600 does not rely on RTNSS systems to mitigate the consequences of these hazards, i.e., safety-related structures, systems, and components are relied upon for design basis accident mitigation, Westinghouse is providing these drawings to facilitate closure of key licensing issue 2(f).

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These drawings were created, based on the RTNSS systems identified in WCAP-13856, as a visual summary of the hazard mitigation features available for AP600 RTNSS systems. On the attached drawings:

Text is provided to describe the protective features.
RTNSS equipment locations are shown in blue.
Concrete structural walls are shown in red cross-hatch.
Normal floor drain paths are shown in green cross-hatch.
Secondary drain paths are shown by purple arrows.

With References 2 and 3 and submittal of the attached drawings, Westinghouse activity is considered complete with respect to Key Licensing Issue 2(f). The NRC should review these drawings. Please advise W. E. Cummins (412) 374-6211 or Robin K. Nydes (412) 374-4125 if there are any questions or concerns associated with this letter.



Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/jml

attachment

cc: Bill Huffman, NRC (2 copies)

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