

**Commonwealth Edison**

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August 1, 1983

Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Counterflow Steam Generator Owners Review  
Group Evaluation of Westinghouse Proposed  
Modifications to Model D4, D5 and E Steam  
Generators, NRC Dockets 50-400, 50-401,  
50-454, 50-455, 50-456, 50-457, 50-498, 50-499,  
50-546, 50-547

Dear Mr. Eisenhut,

Enclosed are forty copies of the Counterflow Steam Generator Owners Review Group (CSGORG) evaluation of the Westinghouse proposed modifications to the model D4, D5 and E steam generators to minimize flow induced vibration in the preheater section. The non-proprietary report, titled "Independent Evaluation of Proposed Modifications to Westinghouse D4, D5 and E Steam Generators" CSGORG-002, has been reviewed and approved by the members of the CSGORG.

The domestic utility members of the CSGORG, their plants and NRC docket numbers are as follows:

| <u>Utility</u>             | <u>Plant</u>     | <u>Docket No.</u> |
|----------------------------|------------------|-------------------|
| Carolina Power & Light Co. | Shearon Harris 1 | 50-400            |
|                            | Shearon Harris 2 | 50-401            |
| Commonwealth Edison Co.    | Byron 1          | 50-454            |
|                            | Byron 2          | 50-455            |
|                            | Braidwood 1      | 50-456            |
|                            | Braidwood 2      | 50-457            |

| <u>Utility</u>                       | <u>Plant</u>  | <u>Docket No.</u> |
|--------------------------------------|---------------|-------------------|
| Houston Lighting & Power Co.         | South Texas 1 | 50-498            |
|                                      | South Texas 2 | 50-499            |
| Public Service Company<br>of Indiana | Marble Hill 1 | 50-546            |
|                                      | Marble Hill 2 | 50-547            |

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See Attached

This report was discussed with Mr. T. Novak and other members of your staff in Bethesda, MD on July 7, 1983 where the CSGORG presented the following conclusions:

- The modification will reduce tube vibration in the preheater section to an acceptable level for long term operation.
- The modifications to the model D4, D5 and E steam generators does not result in an unreviewed safety question.

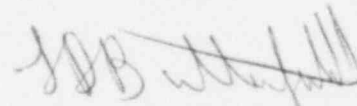
This report is intended for use by the domestic utilities to support the licensing of plants containing model D4, D5 and E steam generators and will be referenced by them. Related plant specific modification information will be submitted as revisions to the appropriate Plant Final Safety Analysis Report. Each utility will, on an individual basis, address other items that it determines to be appropriate, such as surveillance programs and the schedule for implementation.

The proprietary version of this report, with the same title and number CSGORG-001, was submitted to the Nuclear Regulatory Commission by letter dated July 18, 1983.

Any questions concerning the report should be communicated to:

Dr. M.G. Zaalouk, Chairman  
Technical Review Committee  
Counterflow Steam Generator Owners Review Group  
Houston Lighting & Power Company  
P.O. Box 1700  
Houston, Texas 77001  
Telephone: (713) 877-3067

Very truly yours,



L.D. Butterfield, Jr. Chairman  
Steering Committee  
Counterflow Steam Generator  
Owners Review Group

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cc: CSGORG Members  
P. McDonough, Westinghouse