



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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Al Kaplan

VICE PRESIDENT  
NUCLEAR GROUP

*Serving The Best Location in the Nation*  
**PERRY NUCLEAR POWER PLANT**

April 19, 1990  
PY-CEI/NRR-1167 L

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

Perry Nuclear Power Plant  
Docket No. 50-440  
Response to NRC Bulletin 90-02:  
Loss of Thermal Margin Caused by  
Channel Box Bow

Gentlemen:

On March 20, 1990 the U.S. Nuclear Regulatory Commission (NRC) issued Bulletin 90-02, "Loss of Thermal Margin Caused by Channel Box Bow." The requested actions and reporting requirements are as follows:

"All BWR licensees that currently use channel boxes for a second bundle lifetime should verify that current CPR technical specification operating and safety limits are met."

"Within 30 days of receipt of this bulletin, all holders of OLs for BWRs that currently use channel boxes for a second bundle lifetime shall advise the NRC of the number of such channel boxes and their disposition in the core. In addition, the response shall describe the methods, and the associated data base, used to account for the effects of channel box bow during the second bundle lifetime use of channel boxes to ensure conformance with the CPR technical specification operating and safety limits."

The Perry Nuclear Power Plant (PNPP) Unit 1 is currently operating in the second fuel cycle. No fuel channels are being used for a second bundle lifetime. Therefore, PNPP does not fall under the requested actions or reporting criteria described above.

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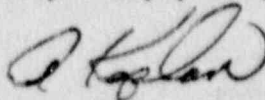
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However, as described in the bulletin, licensees who use channel boxes for only a single bundle lifetime are expected to account for the effects of channel box bow in analyses supporting their next fuel reload application. General Electric (GE) is our reactor fuel vendor and has submitted a report to the NRC describing their methodology for incorporating the effects of channel box bow in their CPR analysis. This report is under Staff review, expected to be completed in May 1990. CEI has adopted GE's proposed implementation plan and schedule, that is, use of correction factors in the next process computer (reload) update that include allowances for channel box bow. Therefore, following completion of our second refueling outage, which begins in the fall of 1990, CEI will be implementing the additional actions discussed within this bulletin.

If you have any questions, please feel free to call.

Very truly yours,



Al Kaplan  
Vice President  
Nuclear Group

AK:njc

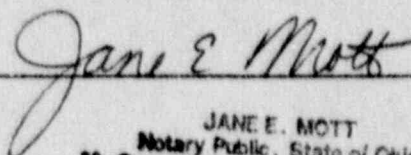
cc: T. Colburn  
P. Hiland  
USNRC Region III

Alvin Kaplan who, being duly sworn, deposed and said that (1) he is Vice President, Nuclear Group of The Cleveland Electric Illuminating Company, (2) he is duly authorized to execute and file this report on behalf of The Cleveland Electric Illuminating Company and as duly authorized agent for Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company and the Toledo Edison Company, and (3) the statements set forth therein are true and correct to the best of his knowledge, information and belief.



Alvin Kaplan

Sworn to and subscribed before me, this 19<sup>th</sup> day of April, 1990.



JANE E. MOTT  
Notary Public, State of Ohio  
My Commission expires Feb. 20, 1995  
(Recorded in Lake County)