

MAR 5 1985

Docket Nos.: 50-440/50-441

Mr. Murray R. Edelman, Vice President
Nuclear Operations Group
The Cleveland Electric Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Dear Mr. Edelman:

Subject: Perry Nuclear Power Plant (Units 1 and 2) Compliance
with the Reactor Containment Pressure Boundary Fracture
Prevention Requirements of General Design Criterion 51 --
SER Confirmatory Issue (58)

The NRC staff has completed its evaluation of the additional information provided with your letter dated February 18, 1985 regarding Perry's compliance with the reactor containment pressure boundary fracture prevention requirements of General Design Criterion 51. The need for such information was introduced as Confirmatory Issue (58) in Section 6.2.8 of SER Supplement No. 5.

Based on its review of the fracture toughness data and materials fabrication histories provided, and the use of correlations between metallurgical characteristics and material fracture toughness, the staff has concluded that the ferritic materials of the components of Perry Unit 1 and 2 containment pressure boundaries meet the fracture toughness requirements that are specified for Class 2 components by the 1977 Addenda to Section III of the ASME Code. Compliance with these Code requirements provides reasonable assurance that Perry Unit 1 and 2 reactor containment pressure boundaries will behave in a non-brittle manner, that the probability of rapidly propagating fractures will be minimized, and that the requirements of General Design Criterion 51 are satisfied.

We propose to incorporate the enclosed staff evaluation report, which resulted in the above noted findings, in the next Perry SER supplement, resolving Confirmatory Issue (58).

Sincerely,

BJ
B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosure: As stated

cc: See next page

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Docket File

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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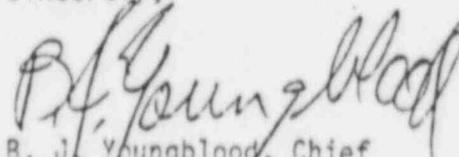
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