

October 20, 1986

DMBOL

Docket No. 50-366

Mr. John F. Opeka, Senior Vice President
Nuclear Engineering and Operations
Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06141-0270

Dear Mr. Opeka:

We are in the process of reviewing your January 23, 1986 submittal regarding Material Properties for Fracture Toughness Requirements for Protection Against Pressurized Thermal Shock (10 CFR 50.61). In order that we may continue our review, we request that you respond to the enclosed question within 60 days following receipt of this letter.

This request for additional information affects fewer than 10 respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by

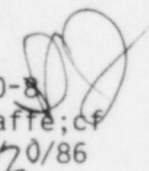
David H. Jaffe, Project Manager
PWR Project Directorate #8
Division of PWR Licensing-B


Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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Mr. John F. Opeka
Northeast Nuclear Energy Company

Millstone Nuclear Power Station
Unit No. 2

cc:
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Office of Policy & Management
ATTN: Under Secretary Energy
Division
80 Washington Street
Hartford, Connecticut 06106

REQUEST FOR ADDITIONAL INFORMATION
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
MILLSTONE NUCLEAR POWER STATION, UNIT 2
MATERIAL PROPERTIES FOR FRACTURE TOUGHNESS REQUIREMENTS
FOR PROTECTION AGAINST PRESSURIZED THERMAL SHOCK EVENTS
10 CFR 50.61

Please provide the justification for the copper and nickel contents and the initial RT^{NDT} values, as required by paragraph 50.61(b)(iii) of the PTS rule which is as follows:

(iii) "Cu" and "Ni" mean the best estimate weight percent of copper and nickel in the material. The source of these values must be included in the assessment. The relationship of the material, on which any measurements were made, to the actual material in the pressure vessel must be described."

For the weld metals, which appear to be controlling for Millstone 2, it would be acceptable to describe the weldments on which measurements were made and relate them to the vessel welds by their weld wire heat numbers, giving the individual measurements or the number of measurements, their range and their average. If the values in the submittals are not averages, their derivation should be justified. The weld wire heat numbers are used in our review to compare reported copper and nickel contents with those for other vessels that may have been welded with the same heat of wire.