Docket No. 50-213

Mr. John F. Opeka
Executive Vice President, Nuclear
Connecticut Yankee Atomic Power Company
Northeast Nuclear Energy Company
Post Office Box 270
Hartford, Connecticut 06141-0270

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PD I-4 Plant
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OGC

Dear Mr. Opeka:

SUBJECT: HADDAM NECK PLANT - SPENT FUEL AND NEW FUEL STORAGE MODIFICATIONS REQUEST FOR ADDITIONAL INFORMATION (TAC NO. M88585)

By letter dated January 6, 1994, Connecticut Yankee Atomic Power Company requested a Technical Specification change to allow an increase in the maximum nominal fuel enrichment allowed to be stored in both the new fuel storage racks and the spent fuel pool to a nominal 5.0 weight-percent U-235. Based on our review of your submittal, the staff has determined that additional information is necessary to complete our review. Enclosed are additional questions regarding the storage of the higher enriched fuel at your facility. Please respond within 30 days of receipt of this letter.

This requirement affects one respondent and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

Or ginal signed by:

Alan B. Wang, Project Manager Project Directorate I-4 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Enclosure: As stated

cc w/enclosure: See next page

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NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 4, 1994

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Clan Wang

Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Board of Selectmen Town Office Building

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Nicholas S. Reynolds Winston & Strawn 1400 L Street, NW Washington, DC 20005-3502

HADDAM NECK NEW AND SPENT FUEL STORAGE MODIFICATIONS REQUEST FOR ADDITIONAL INFORMATION

- 1. The required Action for proposed TS 3.9.14 is not appropriate. The k-eff of the pool must be no greater than 0.95 without credit for boron in the pool water, as required by TS 5.6.1.1a. If the placement of fuel assemblies does not meet Fig. 3.9-1 or 3.9-2, the required Action should be to correct the loading error.
- 2. Westinghouse 15x15 fresh fuel assemblies may be placed in the fresh fuel racks if they either comply with the enrichment-IFBA requirements of TS Fig. 5.6-1 or have a reference k-infinity less than or equal to 1.483. Therefore, why isn't the k-infinity requirement also in the TS?
- 3. Are 61 spaces for new fuel assembly storage sufficient for a reload batch?
- 4. Please discuss the number of neutron histories used in the KENO Monte Carlo calculations and why this is sufficient to assure convergence.
- 5. Since nominal boron carbide absorber plate dimensions were assumed, why weren't the uncertainties due to manufacturing tolerances for thickness and length also included in the reactivity analysis?
- 6. Since the spent fuel assembly storage array was assumed to be infinite in lateral and axial extent, it appears that an average assembly burnup was assumed in the burnup credit reactivity equivalencing. What is the effect of axial burnup distribution on assembly reactivity?