



CONNECTICUT YANKEE ATOMIC POWER COMPANY

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Docket No. 50-213
B10345



Director of Nuclear Reactor Regulation
Attn: Mr. Dennis M. Crutchfield, Chief
Operating Reactor Branch #5
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

- References: (1) R. H. Graves letter to Boyce Grier, dated February 28, 1979.
(2) R. H. Graves letter to Boyce Grier, dated July 31, 1979.
(3) W. G. Council letter to D. M. Crutchfield, dated January 19, 1981.

Gentlemen:

Haddam Neck Plant
Report on Fuel Rod Failures

In Reference (1) Connecticut Yankee Atomic Power Company (CYAPCO) submitted the Licensee Event Report for Reportable Occurrence LER 79-01/1T on fuel rod failures. A follow-up report to the original LER was submitted as Reference (2). Reference (3) submitted a report by Battelle Columbus Laboratories which presented preliminary evaluations and conclusions from examinations performed on two fuel assemblies.

Attached is the final report prepared by Battelle Columbus Laboratories on the investigation into the batch 8 fuel rod failures at the Haddam Neck Plant. This final report is supplied by CYAPCO for informational purposes, as requested by the Staff.

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The experimental results described in the final report indicates probable elements contributing to the batch 8 fuel failures. These results have led to selected fabrication adjustments and surveillance programs intended to mitigate the pellet chipping problem. In addition, design refinements within current specifications to improve batch 13 fuel performance have been instituted. More extensive design and fabrication changes are planned for future reload batches.

As the attached constitutes CYAPCO's final report on this matter, no further updates are planned.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY

W. G. Council

W. G. Council
Senior Vice President

John Guba

By: J. F. Opeka
Vice President Nuclear
Operations