PSNH PUBLIC SERVICE
Company of New Hampshire

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SBN- 310
T.F. B 7.1.2

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. Frank J. Miraglia, Chief
Licensing Branch No. 3
Division of Licensing

References:
(a) Construction Permit CPPR-135 and CPPR-136, Docket Nos. 50-443 and 50-444
(b) USNRC Letter, dated March 1, 1982, "Request for Additional Information," F. J. Miraglia to W. C. Tallman
(c) PSNH Letter, dated April 21, 1982, "Response to 210 Series RAIs; (Mechanical Engineering Branch)," J. DeVincentis to F. J. Miraglia

Subject: ADLPIPE Benchmark, RAI 210.28; (Mechanical Engineering Branch)

Dear Sir:

In our response to RAI 210.28, submitted in Reference (b), we committed to benchmarking the United Engineers' version of the ADLPIPE computer code against Problem #4 from NUREG/CR-1677.

The enclosed United Engineers' Report (Problem #4, Piping Benchmark Problems, NUREG/CR-1677, BNL-NUREG-51267, Vol. 1) provides verification of the United Engineers version of ADLPIPE.

The results obtained for Problem #4 by UE&C's in-house version of ADLPIPE were compared with the results documented in NUREG/CR-1677. Parameters included in the comparisons are:

- o Frequencies
- o Resultant displacement
- o Resultant elemental forces and moments
- o Resultant elemental stresses
- o Resultant support reactions

All items listed above demonstrated excellent agreement with the NUREG results. For convenience in future comparisons, and for documentation

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purposes, selected items from the above list have been tabulated in the summary sheets of the enclosed document.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

J. DeVincentis
Project Manager

Enclosure