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Pauline Brooks, Project Officer
Division of Waste Management
MS 623 SS
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

PDR ✓
LPDR ✓ (B, N, S)

Distribution:

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(Return to WM, 623-SS)

Subject: Contract No. NRC-02-81-026
Benchmarking of Computer Codes and Licensing Assistance

Dear Pauline:

As you requested, I have reviewed our recommendations for benchmarking the waste package codes. Our "Letter Report on Code Selection" dated December 14, 1983, recommended five codes for benchmarking: WAPPA, ANSYS, ANISN, HEATING6 and COVE1. We still believe that these codes will give the NRC capability for in-house analysis of a waste package and include codes that are likely to be used by the DOE in waste package design and performance assessment.

Since the code WAPPA is likely to be used as the basis for demonstrating the performance of a waste package in compliance with 10 CFR 60, we believe that this code should be thoroughly tested. In view of the NRC's decision to benchmark the codes ADINA and ADINAT in the waste package area, they might also be considered as substitutes for the code ANSYS. While ADINA and ADINAT do not have all the analytical capabilities of ANSYS, they are a good choice for waste package design analysis

Enclosed with this letter are copies of the "Letter Report on Code Selection" and "Letter Report on Subtypes". We would appreciate any comments from the NRC on the selected codes.

If you have any questions on this matter, please contact me.

Sincerely,

Douglas K. Vogt
Project Manager

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PDR WMRES EECCORS
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