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DEC 21 1984

Mr. Douglas K. Vogt
Vice President
CorSTAR
North Tower Suite 702
7315 Wisconsin Avenue
Bethesda, MD 20814

SUBJECT: PROPOSED CHANGE OF TECHNICAL SCOPE, NRC CONTRACT NO. NRC-02-81-026
(FIN B6985)

Dear Mr. Vogt:

This letter confirms my previous approval, by telephone conversation of November 9, 1984, of the change of technical scope of the work of benchmarking the repository design codes under Tasks 4 and 5, Repository Design Codes. This change made necessary by the unavailability of the codes SPECTROM 41 and SPECTROM 11. As you know from our conversations, after your request to ONWI for the codes through normal channels was disapproved, we verified that the codes would not be ready in time for use in this benchmarking effort. It is therefore necessary to eliminate any deficiencies in the suite of codes caused by deleting SPECTROM. As SPECTROM 11 is an elastic-plastic, non-linear code and SPECTROM 41 is its thermal complement, the overall revised plan is to include the elastic-plastic problems with VISCOT and the two-dimensional analytical problems with ADINA and ADINAT.

Therefore, I authorize the following changes to the scope of work:

1. Delete both SPECTROM 11 and SPECTROM 41 from the list of codes to be benchmarked.
2. Add problems 3.5, 5.2-Basalt and 6.3 to the VISCOT problems. This will test elastic-plastic applications of the VISCOT code. (Visco-elastic application problems are already included for VISCOT.) Do the required additional DOT runs of problems 5.2 and 6.3 to prepare VISCOT input temperatures.
3. Test problems 2.6, 2.8, 3.2b, 3.3c, 3.5 using ADINA and ADINAT two-dimensional elements. This will test ADINA and ADINAT for applications which had previously been proposed for the SPECTROM 11 and 41 codes.
4. Perform the additional work necessary to get ADINA and ADINAT up on the Brookhaven system. This was not included in the original scope

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because at the time it was indicated that these codes were already running at Brookhaven.

The action taken by this letter is considered to be within the scope of current contract NRC-02-81-026. No changes to cost or delivery of contracted products are authorized. Please notify me immediately if you believe this letter would result in changes to costs or delivery of contract products.

Sincerely,

Original Signed By:

Pauline P. Brooks
Repository Projects Branch
Division of Waste Management
Office of Nuclear Materials Safety
and Safeguards

cc: P. Cukor
S. Wollett

DFC :WMP:rs	<i>ppb</i> :WMP	<i>[Signature]</i> :WMP	<i>RLJ</i> :	:	:	:	:
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