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WM DOCKET CONTROL  
CENTER

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October 15, 1984

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

WM-RES  
WM Record File  
B6985  
CorStar

WM Project 10, 11, 16  
Docket No. \_\_\_\_\_  
PDR ✓  
LPDR ✓ (B, A, S)

Distribution:

P Brooks

(Return to WM, 623-SS)

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

Dear Pauline:

Attached are our recommendations for dealing with the unavailability of the computer codes SPECTROM II and SPECTROM 4I. If you have questions, please contact me.

Sincerely,

Douglas K. Vogt  
Project Manager

Attachment

8411090443 841015  
PDR WMRES EECCORS  
B-6985 PDR

CORPORATE SYSTEMS, TECHNOLOGIES, AND RESOURCES

7315 WISCONSIN, NORTH TOWER #702 • BETHESDA, MARYLAND 20814 • (301) 654-8096

BERKELEY

WASHINGTON, D.C.

INCLINE VILLAGE

1560



October 12, 1984  
P6678.220.10

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

Dear Doug:

NRC Contract No. NRC-02-81-026  
Benchmarking of Computer Codes  
Proposed Change of Technical Scope

The purpose of this outline is to propose changes to the technical scope of our work required due to the unavailability of SPECTROM 41 and SPECTROM 11. See attached letters from ONWI dated May 3, 1984 and September 24, 1984.

We propose the following changes to our 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.) Additional DOT runs of problems 5.2 and 6.3 will be required to prepare VISCOT input temperatures.
3. Test problems 2.6, 2.8, 3.2b, 3.3c and 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 because at the time it was indicated that these codes were already running at Brookhaven.

SPECTROM 11 is an elastic-plastic, non-linear code and SPECTROM 41 is its thermal complement. The inclusion of the elastic-plastic application problems with VISCOT and the two-dimensional analytical problems with ADINA and ADINAT should eliminate any deficiencies in the suite of codes caused by deleting SPECTROM.

**ACRES AMERICAN INCORPORATED**

Engineers, Architects, and Planners  
Suite 1000 Liberty Building, 424 Main Street  
Buffalo, New York 14202-3592  
Telephone 716-853-7525    Telex 91-6423 ACRES BUF

Mr. Douglas K. Vogt

- 2 -

October 12, 1984

We have determined that these changes will not have any significant impact on the total cost of the project.

We hope these proposed changes are agreeable to you and the NRC. We would appreciate prompt response to minimize any delays in the project.

Yours truly,

A handwritten signature in cursive script that reads "D. W. Lamb".

D. W. Lamb  
Project Manager

RHC/DWL/ms  
Attachments



BATTELLE Project Management Division  
505 King Avenue  
Columbus, Ohio 43201-2693

P6678

RECEIVED

OCT 1984

ACRES AMERICAN INCORPORATED

FE 192

*Handwritten signatures and initials*

*Copied to J. Vogt. 10/8. with enclosure*

September 24, 1984

*Handwritten signature: Dr. D. W. Lamb*  
Acres American Incorporated  
Suite 1000 Liberty Building  
424 Main Street  
Buffalo, New York 14202-3592

Dear Dr. Lamb:

NON-TRANSMITTAL OF SPECTROM CODE PACKAGES AND DOCUMENTATION

Thank you for the acknowledgement of receipt of the DOT, VISCOT, MATLOC and SALT4 code package transfers enclosed in your letter of September 11, 1984.

The SPECTROM 11, 21 and 41 code documents are not completed at this time, therefore, your request for code transfer has been disapproved. A user's manual for SPECTROM 41 has been documented (ONWI-326) and is enclosed. However, the documentation is being revised in accordance with NUREG-0856. The draft documentation shall undergo review upon receipt in early November. Once the documentation has been approved, the codes shall be available for transfer. At that time, you will be notified of code availability.

We regret any inconveniences that this may cause you.

Sincerely,

*Handwritten signature: Leslie A. Scott*

Leslie A. Scott  
Code Custodian  
Systems Analysis Department

LAS:rb

Enclosure

cc: LA Casey, SRPO  
JO Neff, SRPO (3)



Project Management Division

TRANSFER FORM  
(See instructions on Reverse Side)

1. CONTROL NO.

1A. TO

2. DATE

I. 3. CODE REQUESTOR  
D.W. LAMB4. ADDRESS OF REQUESTOR  
ACRES AMERICAN INCORPORATED5. DATE OF REQUEST  
SEPT. 11, 19846. CODE RECEIVER  
same7. ADDRESS OF RECEIVER  
same8. CODE REQUESTED & I.D. NO.  
SPECTROM-11, SPECTROM-21, SPECTROM-419. INTENDED APPLICATION  
benchmarking

## II. RESPONSIBLE MANAGER APPROVAL FOR TRANSFER

10. ☐ APPROVE TRANSFER☒ DISAPPROVE TRANSFER11. EXPLANATION We do not have appropriate code documentation  
at this time

12. SIGNED (RESPONSIBLE MANAGER)

TITLE

DATE 9/24/84

## III. TRANSFER PACKAGE CONTENTS

13. CODE TITLE &amp; I.D. NO. 14. VERSION 15. DATE

16. ☐ DOCUMENTATION TITLE17. ☐ MODEL TAPE INDEX18. ☐ MODEL LISTING

19. MAGNETIC TAPE FORMAT

- ☐
- 9-TRACK
- 
- ☐
- UNLABELED
- 
- ☐
- 1600 BPI
- 
- ☐
- EBCDIC

- ☐
- OTHER
- 
- ☐
- OTHER
- 
- ☐
- OTHER

FILES BLOCK SIZE RECORD LENGTH  
FILES BLOCK SIZE RECORD LENGTHOR 20. ☐ REQUEST REJECTED21. COMMENTS code transfer has been disapproved (refer to  
part II of form)

## IV. REVIEW BY TECHNICAL INDIVIDUAL

22. SIGNED (TECHNICAL INDIVIDUAL)

DATE 9/25/84

## V. CODE CURATOR CONCURRENCE

23. ☒ CONCUR☐ DO NOT CONCUR

24. EXPLANATION

25. SIGNED (CODE CURATOR)

TITLE

DATE 9/28/84

## VI. PACKAGE SENT

26. CONTENTS tape transfer form, ONWI-326

27. SIGNED (CODE CUSTODIAN)

28. DATE SENT

9/28/84