

426.1/PB/84/07/18/1

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JUL 20 1984

Douglas K. Vogt
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Bethesda, Maryland 20814

CONTRIBUTION	WM-84602
s/f 3426.1	JEKennedy
WMRP r/f	KGano (original)
NMSS r/f	PDR
CF	LPDR, N, B, S
REBrowning	DMattson
MJBell	FIN B6985
JOBunting	
PAItomare	
MRKnapp	
LBarrett	
LHigginbotham	
HMiller	
RRBoyle	
SMCoplan	
JJLinehan	

SUBJECT: COMMENTS ON DRAFT REPORT, "BENCHMARKING OF FLOW AND TRANSPORT CODES FOR LICENSING ASSISTANCE" (FIN B6985)

Dear Mr. Vogt:

Enclosed are additional comments on the draft report, "Benchmarking of Flow and Transport Codes for Licensing Assistance." These comments should arrive at about the time you receive comments from the last of the external QA reviewers.

Review comments on the draft report contained in our letter to you, dated July 13, 1984, are based on several of the same general concerns expressed in the enclosed comments which were developed by S. Silling, a consultant to NRC. Several of his specific comments are also in our markup sent as an enclosure to our previous letter. The complete set of specific comments should be used in clarifying and revising the draft report. The following general comments are intended to help you integrate the new comments into the earlier comment letter. (Comment numbers within the statements refer to our letter of July 13).

Comment No. 1. This comment expresses one of NRC's concerns underlying comment 4c. In the staff's opinion, an explicit comparison of code capabilities, in those cases where comparison with other codes was the basis for analysis of the results, will be useful to the reader as a formal conclusions section.

Comment No. 2. This comment is closely related to comment number 4 about the need for evenhanded treatment of codes. See particularly comments 4d, 4e, and 4f. Several questions arise. To what extent has there been interaction between the authors of this report and BCS Richland, Inc.? Was the error in PORFLO, Version 5.6 that was corrected by BCS Richland, Inc found as a result of GeoTran's work? How would it have affected the reported results?

Comment No. 3. The user of this document will be interested primarily in knowing the capabilities of a particular code. Table 1.1 of draft report shows the problems run for each code. A second version of this table or a matrix of codes vs problems showing which codes were run for each problem should be included.

OFC	: WMRP	: WMRP	: WMRP	:	WM Record File	WM Project
NAME	: PBrooks	: DFehringer	: JLinehan	:	: B-6985 :	10, 11, 16
DATE	: 7/ /84	: 7/ /84	: 7/ /84	:	COSTAR	Docket No.
					Distribution:	PDR
						LPDR
						B, N, S
	8409200328	B40720				
	PDR	WMRES	ECCORS			
	B-6985	PDR				

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Comment No. 4. See comment No. 1b on the need for clear, informative tabular headings.

Comment No. 5. Input data file listings do need to be available to the reader to ensure reproducibility of the work. However, considering the bulk such an appendix would add to the report, we conclude that the reader should be informed of the availability of input data files in the PDR in a foreword to the final version of the report.

Comment No. 6. See also our specific comments for pp 191 (paragraph 4) and 454 in the specific comments and general comment 4f in our previous letter. These comments should be addressed.

In summary, the enclosed comments reinforce and augment previous comments. Please address the above general comments and the additional specific comments in your ongoing revision of the draft report. Should you have any questions please contact me or Mr. Silling (213-449-0718).

The action taken by this letter is considered to be within the scope of the 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 cost or delivery of contract products.

Sincerely,

"ORIGINAL SIGNED BY"

Pauline Brooks
Repository Projects Branch
Division of Waste Management
Office of Nuclear Material
Safety and Safeguards

Enclosure:

Review comments from S. Silling (*already in PDR*)

- cc: S. Silling (w/o enclosure)
- S. Wollett (w/o enclosure)
- P. Cukor (w/enclosure)

OFC : WMRP	: WMRP	: WMRP	:	:	:	:
NAME : PBrooks	: DFehringer	: JLitman	:	:	:	:
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