CNWRA A center of excellence in earth sciences and engineering [™]

A Division of Southwest Research Institute[®] 6220 Culebra Road • San Antonio, Texas, U.S.A. 78228-5166 (210) 522-5160 • Fax (210) 522-5155

> December 29, 2005 Contract No. NRC-02-02-012 Account No. 20.06002.01.242

U.S. Nuclear Regulatory Commission ATTN: Mr. Jim Rubenstone Office of Nuclear Material Safety and Safeguards Division of High-Level Waste Repository Safety Two White Flint North 11545 Rockville Pike Mail Stop T7-J8 Washington, DC 20555

Subject: Paper for the International High-Level Radioactive Waste Management Conference (AI 06002.01.242.602)

Dear Mr. Rubenstone:

This paper is planned to be presented at the International High-Level Radioactive Waste Management Conference to be held on April 30–May 4, 2006, in Las Vegas, Nevada. The title of the paper is

Effect of Kinetic Limitations on Colloid-Facilitated Radionuclide Transport at the Field Scale by Scott Painter, Center for Nuclear Waste Regulatory Analyses and Vladimir Cvetkovic, Royal Institute of Technology, Stockholm, Sweden

Please advise me of any further changes. If you have any questions regarding this paper, please contact Dr. English Pearcy at (210) 522-5540.

Sincerely, M.G. for GWW

Gordon Wittmeyer, Ph.D.

Gordon Wittmeyer, Ph.D. Assistant Director, Earth Sciences

/cap Enc: Paper, 390A

cc:

W. Reamer V. Whipple E. Whitt W. Ford T. McCartin L. Kokajko M. Bailey F. Brown K. Stablein J. Guttmann A. Campbell B. Leslie

D. Brooks J. Pohle P. Justus J. Trapp A. Fetter R. Fedors

J. Bradbury

W. Patrick B. Sagar Record Copy B Letter Only: CNWRA Directors CNWRA Elem. Mgrs. L. Gutierrez



Washington Office • Twinbrook Metro Plaza #210 12300 Twinbrook Parkway • Rockville, Maryland 20852-1606

NRC F	orm 39	DA	<u> </u>		U.S. NUCLEA	R REGULATORY COMMISSION	
(1-1997) NRCMD					OTOP		
RELEASE TO PUBLISH UNCLASSIFIED NRC CONTRACTOR SPEECHES, PAPERS, AND JOURNAL ARTICLES (Please type or print)							
1. TITLE (State in full as it appears on the speech, paper, or journal article)							
Effect of Kinetic Limitations on Colloid-Facilitated Radionuclide Transport at the Field Scale							
2. AUTHOR(s) S. Painter and V. Cvetkovic							
3. NAME OF CONFERENCE, LOCATION, AND DATE(s) International High Level Radioactive Waste Management Conference Las Vegas, NV April 30 - May 4, 2006							
4. NAME OF PUBLICATION							
5. NAME AND ADDRESS OF THE PUBLISHER					TELEPHON		
6. CONTRACTOR NAME AND COMPLETE MAILING ADDRESS (include ZIP code)					TELEPHONE NUMBER OF THE CONTRACTOR		
Center for Nuclear Waste Regulatory Analyses					210/522-5304		
Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78238							
San Antonio, TX 78238 7. CERTIFICATION							
YES	NO	(ANSWER ALL QUESTIONS)					
	X	A. COPYRIGHTED MATERIAL – Does this speech, paper, or journal article contain copyrighted material? If yes, attach a letter of release from the source that holds the copyright.					
	X B. PATENT CLEARANCE - Does this speech, paper, or journal article require patent clearance? If yes, the NRC Patent Counsel must signify clearance by signing below.						
	Ph. #179 Ph. 4 - 118	NRC PATENT CO	OUNSEL (Type or Print Name)	SIGNATURE	DATE		
x		C. REFERENCE	C. REFERENCE AVAILABILITY – Is all material referenced in this speech, paper, or journal article available to the public either through a public library, the Government Printing Office, the National Technical Information Service, or the NRC Public Document Room? If no, list below the specific availability of each referenced document.				
		SPECIFIC AVAILABILITY					
Balander als Analdes a	x	D. METRIC UNIT CONVERSION – Does this speech, paper, or journal article contain measurement and weight values? If yes, all must be converted the International System of Units, followed by the English units in brackets, pursuant to the NRC Policy Statemen implementing the Omnibus Trade and Competitiveness Act of 1988, Executive Order 12770, July 25, 1991.					
8. AUTHORIZATION							
The signatures of the NRC project manager and the contractor official certify that the NRC contractor speech, paper, or journal article is authorized by NRC, that it has undergone appropriate peer review for technical content and for material that might compromise commercial proprietary rights, and that it does not contain classified, sensitive unclassified, or nonpublic information. (NRC MD 3.9, Part II(A)(1)(d))							
A. CONTRACTOR AUTHORIZING OFFICIAL (Type or print name) Gordon Wittmeyer, Assistant Director				SIGNATURE M.C. For GWW		date 12/27/05	
B. NRC RESPONSIBLE PROJECT MANAGER (Type or print name)				OFFICE/DIVISION		MAIL STOP	
TELEPHONE NUMBER E-MAIL I.D.				Did you place the speech, paper, or journal article in the PDR? YES NO			
SIGNATURE				L /////////////////////////		DATE	
NRC FORM 390A (1-1997) PRINTED ON RECYCLED PAPER This form was designed using InForms							

٦

.