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 14, 2005 Contract No. NRC-02-02-012 Account No. 20.06002.01.352 Al No. 20.06002.01.352.604

U.S. Nuclear Regulatory Commission ATTN: Mrs. Deborah A. DeMarco Two White Flint North 11545 Rockville Pike Mailstop T8 A23 Washington, DC 20555

Subject: Programmatic Review of Paper

Dear Mrs. DeMarco:

The enclosed paper is being submitted for programmatic review. The paper will be published in the proceedings of the 8th International Conference on Probabilistic Safety Assessment and Management (PSAM 8), New Orleans, Louisiana, May 14–19, 2006. The title of the paper is "Techniques for Sensitivity Analyses on Non-Monotonic Functions" by Osvaldo Pensado and Budhi Sagar. The paper discusses a general methodology to identify relevant non-monotonic dependencies in stochastic models. The paper deadline is December 30, 2005, but it is anticipated that a time extension will be granted given the delay in defining the paper format.

Please advise me of the results of your programmatic review. If you have any questions regarding this paper, please contact me at (210) 522-5185 or Dr. Osvaldo Pensado at (210) 522-6084. Your cooperation in this matter is appreciated.

Sincerely,

Sitakanta Mohanty, Assistant Director Engineering and Systems Assessment

SM/rm

CC:

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

Letter Only

J. Rubenstone R. Codell C. Grossmann K. Compton

A. Fetter A. Csontos P. Justus

P. Justus J. Gwo W. Patrick
B. Sagar
S. Mohanty
B. Benke

R. Benke
J. Durham
L. Howard
R. Janetzke
P. LaPlante

J. Mancillas R. Nes F. Osidele O. Pensado O. Povetko

Record Copy B, IQS

Letter Only
GED Directors
GED Asst. Directors
GED Managers
P. Maldonado
L. Gutierrez



RELEASE TO PUBLISH UNCLASSIFIED NRC CONTRACTOR SPEECHES, PAPERS, AND JOURNAL ARTICLES (Please type or print)

TITLE (State in full as it appears on the speech, paper, or journal article) Techniques for Sensitivity Analyses on Non-Monotonic Functions								
2. AUTHOR(s) O. Pensado								
3. NAME OF CONFERENCE, LOCATION, AND DATE(s) 8 th International Conference on Probabilistic Safety Assessment and Management (PSAM 8) May 14-19, 2006, New Orleans, LA								
4. NAME OF PUBLICATION Proceedings of the 8 th Conference on Probabilistic Safety Assessment and Management								
5. NAME AND ADDRESS OF THE PUBLISHER ASME Three Park Avenue New York, NY 10016					2		TELEPHONE NUMBER OF THE PUBLISHER 212-591-7292 Fax 212-591-7060	
6. CONTRACTOR NAME AND COMPLETE MAILING ADDRESS (Include a Osvaldo Pensado Center for Nuclear Waste Regulatory Analys 6220 Culebra Road San Antonio, TX 78238						TELEPHONE NUMBER OF THE CONTRACTOR (210) 522-6084		
YES	NO	7. CERTIFICATION (ANSWER ALL QUESTIONS)						
	х	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.						
	х	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.						
		NRC PATENT COUNSEL (Type or Print Name)			SIGNATURE	DATE	DATE	
х		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						
×		D. METRIC UNIT CONVERSION – Does this speech, paper, or journal article contain measurement and weight values? If yes, all must be converted to the International System of Units, followed by the English units in brackets, pursuant to the NRC Policy Statement 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 <i>(Type or print name)</i> Sitakanta Mohanty				SI	GNATURE STAKOLAJA Moha	ulg	DATE 12/14/2005	
B. NRC RESPONSIBLE PROJECT MANAGER (Type or print name)				O	OFFICE/DIVISION /		MAIL STOP	
TELEP	HONE N	UMBER	E-MAIL I.D.	If	id you place the speech, paper, or journal article in AD so, provide the ADAMS Accession No. Jse Template OCIO 099)	DAMS? YE	ES NO	
SIGNATURE							DATE	
NRC FORM 390A (12-2003) PRINTED ON RECYCLED PAPER								