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# Center for Nuclear Waste Regulatory Analyses

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June 15, 1995  
Contract No. NRC-02-93-005  
Account No. 20-5704-191

U.S. Nuclear Regulatory Commission  
Attn: Mrs. Barbara D. Meehan  
Division of Contracts and Property Management  
Mail Stop (7E-33)  
Washington, DC 20555

Subject: Addition of Deliverables to Performance Assessment Research Project

Dear Mrs. Meehan:

As discussed with the NRC Project Officer, we are adding two deliverables to the Performance Assessment (PA) Research Project for FY95-96. One of the new deliverables, which will be completed in FY95, is a paper on an improved conceptual and mathematical model for radionuclide sorption. The new sorption model is unique in that it accounts for the competition of sorption sites. The other deliverable is a paper on an analysis of liquid flow in faults and would be completed in FY96. Both of these papers are expected to be published in peer reviewed journals. Work on these new deliverables are within the scope of Task 1 (Conceptual Model Development) of the project. The PA methodology documented in these papers is expected to be used in auxiliary analyses conducted under Iterative Performance Assessment (IPA) Phase 3.

The new milestone titles, milestone numbers, and completion dates are:

- (i) "Paper on Improved Sorption Model," IM 5704-191-502, August 7, 1995
- (ii) "Paper on Study of Liquid Flow in Faults," IM 5704-191-602, October 30, 1995

In addition to the above changes, the title of one of the existing milestones is being modified to better reflect the technical scope. The current title is "Paper on Evaluation of Parallel Virtual Machine Computing" (IM 5704-192-500) and will be changed to "Paper on Evaluation of Variance Based Sensitivity Analysis." This research activity is currently focusing on conducting sensitivity analyses using a parallel computing approach. A relatively new variance-based sensitivity method is being evaluated for possible use in IPA Phase 3. The milestone date of September 29, 1995 remains the same.

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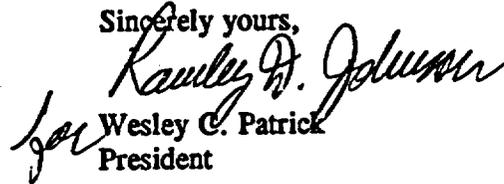
Mrs. Barbara D. Meehan  
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It is estimated that the cost associated with the new deliverables is within the budget currently allocated to the PA Research Project. Because the CNWRA will be revising all project and operation plans in the very near term, no change pages will be submitted to add these deliverables.

Please contact me at (210) 522-5158 or Robert G. Baca at 522-3805 if you need any further information.

Sincerely yours,

  
Wesley C. Patrick  
President

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