

SUPPLEMENTAL AGREEMENT  
BETWEEN  
ARIZONA BOARD OF REGENTS  
AND  
THE U. S. NUCLEAR REGULATORY COMMISSION

THIS SUPPLEMENTAL AGREEMENT, effective the 1st day of September, 1982, by and between the UNITED STATES OF AMERICA (hereinafter referred to as the "Government"), as represented by the UNITED STATES NUCLEAR REGULATORY COMMISSION (hereinafter referred to as the "Commission"), and THE ARIZONA BOARD OF REGENTS (hereinafter referred to as the "Contractor"),

WITNESSETH THAT:

WHEREAS, the parties desire to modify Contract No. NRC-04-81-224 as hereinafter provided, and this supplemental agreement is authorized by law, including the Energy Reorganization Act of 1974, as amended, and the Atomic Energy Act of 1954, as amended.

NOW, THEREFORE, said contract is hereby modified as follows:

Under ARTICLE IX g ALTERATIONS, Article B-XX, Reports and Renewal Proposals, of Appendix B is modified to add the following:

Appendix B-XX, Section (b)(1) Final Report

- a. "The contractor should include an Executive Summary that summarizes the research results with regard to the project objectives defined in the contract."
- b. The contractor must conform to the microfiche specifications as listed in Enclosure 1: if computer codes, data, or other information are to be placed in the NUREG/CR documents in a microfiche format.
- c. The following sections are revised to read as follows, after deleting "basalt."
  - g. Article B-XX, REPORTS AND RENEWAL PROPOSALS
    - (b) 1. Final Report
      - d. Recommendations and conclusions on methods for predicting and monitoring liquid and water vapor movement through unsaturated rock (including fractured tuff).

2. a. A summary of the state-of-the-art hydrologic assessment techniques for unsaturated media. It should include a reference list and an evaluation of the applicability of the various techniques for various field conditions including fractured tuff.
  
2. d. A field manual on monitoring and performing hydrologic assessments in unsaturated media. The report should include methods for installation, use and maintenance of field equipment, design and operation of a monitoring network and applicability for various site conditions including fractured tuff.

IN WITNESS WHEREOF, the parties have executed this document.

UNITED STATES OF AMERICA

BY:

Raymond P. Gustave 9/22/82  
Raymond P. Gustave  
Contracting Officer  
(title)

Nuclear Regulatory Commission

ARIZONA BOARD OF REGENTS

BY:

Sherwood E. Carr  
Sherwood E. Carr, Treasurer and  
Contracting Officer  
(title)

I, James T. Wheeler, certify that I am the  
(attester)

Assistant Vice President of the Contractor named  
(title)

under this document; that Sherwood E. Carr  
(signatory)

who signed this document on behalf of said Contractor was then  
Treasurer and Contracting Officer of said Contractor; that  
this document was duly signed for and on behalf of said Contractor by  
authority of its governing body and is within the scope of its legal  
powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of  
said Contractor.

(SEAL)

James T. Wheeler  
James T. Wheeler, Assistant Vice President  
University of Arizona, Babcock Bldg. Rm. #3313  
Tucson, Arizona 85721

MICROFORM SPECIFICATIONS FOR  
WASTE MANAGEMENT CONTRACTS

Microfiche used for submittal purposes shall conform to the following specifications:

1. Microfiche containing source documentation shall conform to the NMA Type 1 format (ANSI/NMA MS.5) consisting of 98 frames arranged in 7 rows and 14 columns.
2. The reduction ratio shall be 24:1 for all microfiche.
3. The microfiche shall be standard 148mm X 105mm.
4. The microfiche shall be one silver-halide master and one diazo placed in individual acid free envelopes.
5. Diazo duplicates may be either blue/black or black.
6. The microfiche shall be titled in the following manner:

FIN No.	Title of Report	Date
Contract No.		
NUREG/CR No.		
Fiche No.		
7. Title information shall be eye readable on a clear background.
8. The submittal of microfiche containing proprietary material shall be coordinated with the Document Management Branch, Division of Technical Information and Document Control, U.S. Nuclear Regulatory Commission, 20555 to set format and procedures for submittal.
9. Foldouts, if any, shall be segmented and filmed in logical order.
10. The first frame shall be blank, and the second frame shall contain the resolution target (NBS 1010A.)
11. Questions on microfiche specifications should be submitted in writing to:

Document Management Branch, Division of Technical Information  
and Document Control, U.S. Nuclear Regulatory Commission,  
Washington, DC 20555