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INTERIM REPORT

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ACCESSION NO. \_\_\_\_\_  
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Contract Program or  
Project Title:

Technology and Costs of Termination  
Surveys Associated with Decommission-  
ing of Nuclear Facilities

Subject of this Document:

Technical Progress

Type of Document:

Monthly Progress Report

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Division\*

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Responsible NRC Individual and  
NRC Office or Division:

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This document was prepared primarily for preliminary or internal use. It has not received full review and approval. Since there may be substantive changes, this document should not be considered final.

Prepared for  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
Under Interagency Agreement(s) DOE #40-543-75  
NRC FIN No. A9042

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Oak Ridge, Tennessee 37830  
operated by  
Union Carbide Corporation  
for the  
Department of Energy

INTERIM REPORT  
NRC Research and Technical  
Assistance Report

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RES

MONTHLY PROGRESS REPORT FOR AUGUST 1980

TECHNOLOGY AND COSTS OF TERMINATION SURVEYS  
ASSOCIATED WITH DECOMMISSIONING OF NUCLEAR FACILITIES  
(189 No. A-9042)

PRINCIPAL SCIENTISTS: J. P. Witherspoon and C. F. Holoway

Objectives:

The technical objective of this project is to evaluate the technology and cost of conducting termination surveys at six different types of nuclear sites at three different levels of residual radioactivity. Major items for cost estimation include land surveying, radiological surveying, soil sampling, laboratory analysis, data analysis and report preparation. The anticipated sites requiring this evaluation include a representative power reactor, a fuel fabrication plant, an uranium conversion facility, a spent fuel storage site, a fuel reprocessing plant, and a non-fuel cycle facility.

Major Accomplishments:

Generic site parameters for all six types of nuclear sites that are to be addressed in this project have been identified. Most of the effort this month has been in applying the methodology used previously for a termination survey at a power reactor site to the other types of sites.

Additionally, discussions with other staff members in the Health and Safety Research Division have been held in a preliminary effort to establish realistic pathways of radiation exposure for various scenarios of unrestricted use of nuclear fuel cycle sites. Sites such as agricultural, business, residential, and park and woodlands have been considered.

Status of Project:

The remainder of the effort on this project will consist of preparation of the report on "Technology and Costs of Termination Surveys Associated with Decommissioning of Nuclear Facilities."

Manpower and Cost Summary:

Efforts in Man Months			Cost K\$			Additional cost to completion (est.)
Aug. 1980	FY 1980	Total to date	Aug. 1980	FY 1980	Total cost to date	
0.7	6.2	6.2	5.5	45.1	45.1	\$14,900

NRC Research and Technical  
Assistance Report

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