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NRC Research and Technical Assistance Report INTERIM REPORT

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ORNL/HASRD 128

Contract Program or Project Title:	Technology and Costs of Termination Surveys Associated with Decommissioning of Nuclear Facilities
Subject of this Document:	Technical Progress
Type of Document:	Monthly Progress Report
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Responsible NRC Individual and NRC Office or Division:	C. Feldman Chemical Engineering Branch Office of Nuclear Regulatory Research

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operated by
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for the
Department of Energy

INTERIM REPORT

NRC Research and Technical Assistance Report

MONTHLY PROGRESS REPORT FOR MAY 1981

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, a uranium conversion facility, a spent fuel storage site, a fuel reprocessing plant, and a non-fuel cycle facility.

Major Accomplishments:

Design of a termination survey for a reference UF_6 conversion facility was completed and submitted for review by the Office of Nuclear Regulatory Research.

Work began on development of procedures, prior to termination surveys, for determining whether facility decontamination is grossly adequate. These procedures, or pretermination surveys, also may be used in design of termination surveys. Major items included in the pretermination survey are identification of residual radionuclides and characterization of their distribution on the site.

Manpower and Cost Summary:

Efforts in Man Months			Cost K$			
May 1981	Fy 1981	Total to date	May 1981	Fy 1981	Total cost to date	Remaining funds to completion (est.)
1.0	9.5	7.2	5.1	30.0	67.9	$12,100

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