



**ENVIRONMENTAL  
RESTORATION  
PROGRAM**

**Data Management Implementation Plan  
for Interim Action at the Gunitite and Associated  
Tanks, Oak Ridge National Laboratory,  
Oak Ridge, Tennessee**

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**Data Management Implementation Plan  
for Interim Action at the Gunite and Associated  
Tanks, Oak Ridge National Laboratory,  
Oak Ridge, Tennessee**

Date Issued—March 1998

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## APPROVALS

**Data Management Implementation Plan  
for Interim Action at the Gunitite and Associated  
Tanks, Oak Ridge National Laboratory,  
Oak Ridge, Tennessee**

(ORNL/ER-424)

March 1998

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Approval	<u>Cherie Wiles for V. M. Forsberg</u> V. M. Forsberg Project Data Coordinator	<u>3/24/98</u> Date

## PREFACE

This document, *Data Management Implementation Plan for Interim Action at the Gunitite and Associated Tanks, Oak Ridge National Laboratory, Oak Ridge, Tennessee* (ORNL/ER-424), was developed under Work Breakdown Structure 1.12.06.20.01.02.12 for the Gunitite and Associated Tanks Remediation Project. This document identifies the data needs and sources, roles and responsibilities, and data management activities associated with the project.

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## ABBREVIATIONS

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOE	U.S. Department of Energy
GAAT	Gunite and Associated Tanks
OREIS	Oak Ridge Environmental Information System
ORNL	Oak Ridge National Laboratory

## **EXECUTIVE SUMMARY**

This Data Management Implementation Plan documents the data needs, sources, and types of data to be collected during the Gunitite and Associated Tanks (GAAT) remediation operations. The data management roles and responsibilities are also identified for the project team members. Data archival and Oak Ridge Environmental Information System transmittals have also been identified. These activities are being conducted to support the Comprehensive Environmental Response, Compensation, and Liability Act Interim Remedial Action at the Gunitite and Associated Tanks at Oak Ridge National Laboratory in Oak Ridge, Tennessee. The activities will be performed in concert with GAAT operations procedures and guidelines.

## 1. OBJECTIVE

The Gunite and Associated Tanks (GAAT) Project is currently conducting a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Interim Remedial Action to reduce uncertainties on the potential cost and effectiveness of remote tank cleaning equipment being produced jointly between the U.S. Department of Energy (DOE); Oak Ridge National Laboratory (ORNL); Lockheed Martin Energy Systems, Inc.; and associated subcontractors with the DOE EM-50 Program. The goal of this document is to ensure that all procedures have been followed to provide reliable, verifiable data that are technically defensible. The data collected will be used to support closure of the tanks, compare the expected versus actual waste volume and curies to aid in conducting operations, and verify the performance of developmental equipment.

## 2. DATA NEEDS SOURCES AND TYPES

This study will identify data to be issued to the Oak Ridge Environmental Information System (OREIS) for use in the decision-making process of the Record of Decision for the closure of GAAT at ORNL. The data obtained for transfer into OREIS will be from the analytical results performed on samples gathered using a Bristol Isolock slurry sampler, a wall-coring device, and other sampling means, as required. The sampling is to be performed during the GAAT operations for Tanks W-3 through W-10. A listing of required analyses is provided in the following documents:

*-North Tank Farm In-Process Analysis Program (IPAP) for the Isolock Sampler at the Gunite and Associated Tanks at Oak Ridge National Laboratory, Oak Ridge, Tennessee, and*

*-Sampling and Analysis Plan for the Gunite and Associated Tanks Interim Remedial Action, Wall Coring and Scraping, Oak Ridge National Laboratory, Oak Ridge, Tennessee (ORNL/ER-412/R1).*

Miscellaneous samples of tank supernate, wall scrapings, and tank sludge are intended for engineering process knowledge and will not be submitted to OREIS. The laboratory results of the miscellaneous samples will be documented in the final analytical results report and in the project files.

Lab results for wall and sludge samples that will be used as part of CERCLA final closure decision process will be submitted to OREIS.

### 3. ROLES AND RESPONSIBILITIES

Overall roles and responsibilities for this work are defined in the *Gunitite and Associated Tanks Project Plan*, December 19, 1996, ITO-FY97-048. The Project Management Team consists of the following:

- Project Manager, Chairman: S. D. Van Hoesen
- Site Development and Closure Operations Manager: Owen Hale
- Technical Manager: Marshall Johnson
- Health and Safety Manager: Paul Abston
- Facility Manager: Lou Holder
- Construction Manager: Owen Hale
- Environmental Compliance Manager: Denise Reynolds
- Waste Removal Operations Manager: Barry Burks
- Business Manager: Ray Riner
- Quality Assurance: John Emison
- Sampling Manager: Cherrie Wiles
- Project Data Coordinator: Virginia M. Forsberg

The data collection sources are listed in Lockheed Martin Energy Systems, Inc., *Gunitite and Associated Tanks Treatability Studies Operations Project Records Plan* (GAAT-TS/P-301).

### 4. DATA MANAGEMENT ACTIVITIES

The data quality objectives, basis for sampling, sample collection activities, summary of the analysis for each functional area, data to be collected during operations, and analytical methods to be used during analysis of samples are documented in the In-Process Analysis Program and ORNL/ER-412/R1, referred to in Sect. 2. These documents describe the analysis scheme analysis procedures and quality control for samples. Data verification and validation must be reported for all data submitted to OREIS.

### 5. DATA ARCHIVAL AND OREIS TRANSMITTALS

Reports of the validated results from all samples taken during the GAAT Interim Remedial Action will be issued after all analysis of sampling has been completed. These summary reports of analytical results will contain the isolock slurry, wall coring, and miscellaneous sample results. The reports will be issued, and the results for only the isolock slurry, wall coring, and sludge samples which are used as part of the CERCLA final closure decision-making process will be submitted into OREIS by the Project Data Coordinator. The miscellaneous data were used as process knowledge for operations in the South Tank Farm and are not intended for

submittal for tank closure decision-making purposes. Copies of the supporting field measurements, chain of custody form, laboratory results, field log book pages, and geographic coordinates for the sample will be submitted to the GAAT project working files and/or the Environmental Management and Enrichment Facilities Document Management Center in accordance with the Operations Project Records Plan (GAAT-RP/P-301).

A document clearance form will be submitted for documents containing data that are entered into OREIS.

## DISTRIBUTION

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