

DOE/PC/95231-39
DIST. CATEGORY UC-112
UTSI-03-02

**UTSI/CFFF MHD PROGRAM COMPLETION
AND RELATED ACTIVITY**

Quarterly Technical Progress Report

Report Period Start Date: April 1, 2003
Report Period End Date: June 30, 2003

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ABSTRACT

The Discharge Monitoring Reports (DMRs) for April, May and June, 2003, were prepared and submitted to the Tennessee Department of Environment and Conservation (TDEC).

TVG Environmental, Inc. of Nashville, TN conducted the second semi-annual sampling event for the groundwater wells on the UTSI campus in mid-May, 2003. A report detailing the sampling and subsequent water analysis was forwarded to The Tennessee Department of Environment and Conservation in early June. Copies of that report were provided to DOE by Dr. Joel Muehlhauser. Contamination levels above state limits were found in all five wells sampled for at least one compound. TDEC will be contacted next quarter to determine what subsequent actions are necessary.

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Not applicable for the work performed.

INTRODUCTION

Maintenance work on the DOE CFFF facility and other related government property is no longer authorized under this contract in accordance with the DOE-UT Settlement Agreement. Environmental remediation preservation of the facility is going on. Government property has been transferred to UTSI as owner, which frees up many items for proper disposal. Actions are underway to dispose of other wastes, and control pests and water at the DOE CFFF.

EXECUTIVE SUMMARY

The Discharge Monitoring Reports (DMRs) for April, May and June, 2003, were prepared and submitted to the Tennessee Department of Environment and Conservation (TDEC).

TVG Environmental, Inc. of Nashville, TN conducted the second semi-annual sampling event for the groundwater wells on the UTSI campus in mid-May, 2003. A report detailing the sampling and subsequent water analysis was forwarded to The Tennessee Department of Environment and Conservation in early June. Copies of that report were provided to DOE by Dr. Joel Muehlhauser. Contamination levels above state limits were found in all five wells sampled for at least one compound. TDEC will be contacted next quarter to determine what subsequent actions are necessary.

EXPERIMENTAL

Not applicable for the work performed.

RESULTS AND DISCUSSIONS:

The progress in each task is as follows:

TASK 1 – FACILITY MAINTENANCE AND PROPERTY MANAGEMENT

In September 1998, a stop-work order was issued for work activity in the DOE Facility maintenance area. Work to administer government-owned property continued.

On September 22, 1999, Department of Energy and the University of Tennessee signed a SETTLEMENT AGREEMENT resolving all claims and property accountable under Tasks 1-5.

TASK 2 - REPORTING AND ARCHIVING

April, May and June Monthly Technical Progress reports have been submitted.

The Quarterly Key Staffing Report for the period January 1, 2003 – March 31, 2003, was submitted on April 28, 2003.

Quarterly Technical Progress Report for the period January 1, 2003 – March 31, 2003, was submitted on April 28, 2003 and resubmitted on June 16, 2003.

TASK 3 - SITE ENVIRONMENTAL COMPLIANCE AND REMEDIATION

UTSI shall continue implementation and compliance with the State of Tennessee approved plan for groundwater remediation. UTSI shall remove from the site, and properly dispose of, all industrial type non-hazardous wastes. In addition, UTSI shall properly remove all asbestos-containing cooling water tower materials and dispose of these materials properly. In addition, UTSI shall continue the monitoring and treatment of holding pond effluent per the site Water Discharge Permit with the State of Tennessee.

The Discharge Monitoring Reports (DMRs) for April, May and June, 2003, were prepared and submitted to the Tennessee Department of Environment and Conservation (TDEC).

TVG Environmental, Inc. of Nashville, TN conducted the second semi-annual sampling event for the groundwater wells on the UTSI campus in mid-May, 2003. A report detailing the sampling and subsequent water analysis was forwarded to The Tennessee Department of Environment and Conservation in early June. Copies of that report were provided to DOE by Dr. Joel Muehlhauser. Contamination levels above state limits were found in all five wells sampled for at least one compound. TDEC will be contacted next quarter to determine what subsequent actions are necessary.

TASK 4 - SITE REACTIVATION

No work was scheduled or performed

TASK 5 - DISASSEMBLY AND DISMANTLEMENT (D&D) OF THE CFFF

No work was scheduled or performed

TASK 6 – ADVANCED TECHNOLOGY, RESEARCH, DEVELOPMENT AND ENGINEERING FOR OTHER FEDERAL OR DOE PROGRAMS

Subtask 6.02 Evaluation of Methods for Application of Epitaxial Buffer and Superconductor Layers

No Activity.

Subtask 6.03 Coated Conductor Development and Program Management

Discontinued effective September 30, 1999.

Subtask 6.04 Optimum Coated Conductor

No Activity.

Subtask 6.05 Cost Performance Analysis of Potential Manufacturing Processes

Discontinued effective August 31, 1999.

Subtask 6.06 Development of Real Time process Control using In-Situ Diagnostics

Discontinued effective September 30, 1999.

OPEN ITEMS

January 2000 – December 2000 Monthly Technical Progress Reports

January 2001 - December 2001 Monthly Technical Progress Reports

January 2002 - December 2002 Monthly Technical Progress Reports

January 2003 – June 2003 Monthly Technical Progress Reports

October –December 1999 Quarterly Technical Progress Report

January – December 2000 Quarterly Technical Progress Reports

January - December 2001 Quarterly Technical Progress Reports

January – December 2002 Quarterly Technical Progress Reports

January – March 2003 Quarterly Technical Progress Reports

Kevin Trembath's Thesis Topical Report, "Statistically Designed Experimental Study of Sol-Gel Based Film Coating Scheme for High Temperature Superconductors and Buffer Materials and Related Manufacturing Process Cost Evaluation" submitted August 31, 2000.

QUARTERLY VARIANCE REPORT

APRIL 1, 2003, THROUGH JUNE 30, 2003, QUARTERLY VARIANCE REPORT

Planned vs. Actual Expenditures

(thousands of dollars)

TASK	PLANNED	ACTUALS	VARIANCE
1	0.0	0.0	0.0
2	0.0	0.0	0.0
3	0.0	5.4	-5.4
4	0.0	0.0	0.0
5	0.0	0.0	0.0
6	0.0	0.0	0.0
TOTALS	0.0	5.4	-5.4
COST ELEMENT			
DIRECT LABOR	0.0	0.0	0
FRINGE BENEFITS	0.0	0.0	0
EQUIPMENT	0.0	0.0	0
EXPENDABLE MATERIAL	0.0	0.0	0
OUTSIDE CONTRACTS	0.0	3.6	-3.6
TRAVEL	0.0	0.0	0
TOTAL DIRECT COSTS	0	3.6	-3.6
INDIRECT COSTS	0.0	1.8	-1.8
TOTAL	0.0	5.4	-5.4

Planned vs. Authorized Funding

Cumulative

Task	PLANNED	AUTHORIZED FUNDING
1	1495.2	1495.2
2	574.0	574
3	561.0	561
4	0.0	0
5	0.0	0
SUBTOTAL	2630.2	2630.2
6	3820.9	3820.9
TOTAL	6451.1	6451.1

CONCLUSIONS:

Environmental restoration activities at the CFFF will continue and funding to cover these activities will be continued in accordance with the SETTLEMENT AGREEMENT.

Contract reporting requirements are being met on time. Future contract reporting requirements need to be reviewed and modified in accordance with the SETTLEMENT AGREEMENT.

REFERENCES:

Not applicable for the work performed.

LIST OF ACRONYMS:

Not applicable for the work performed.

APPENDICES:

Not applicable for the work performed.