

L1375 L2093



**Battelle**

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November 6, 1992

3.5 L1375  
L2093

David Tiktinsky  
Program Management, Policy Development  
and Analysis Staff  
Office of Nuclear Material Safety  
and Safeguards  
U. S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852


Dear Mr. Tiktinsky:

MONTHLY LETTER STATUS REPORTS - OCTOBER 1992 - NRC FIN L1375-1, L2093-1

Enclosed is the October 1992, Monthly Letter Status Report progress report for NRC FIN L1375-1, L2093-1 UMTRA Technical Support. In addition to your copy I have enclosed copies for Sandra Wastler, Mike Fliegel, Lateef Hamden, and one each for W. B. Brown and NRC Document Control.

If you have any questions, please contact me at your convenience.

Sincerely,

  
Mark T. Murphy, Ph.D.  
Senior Research Scientist  
Geophysics Section  
GEOSCIENCES DEPARTMENT

MTM:tek

Enclosure

Office of Nuclear Material Safety & Safeguards

FIN - L1375/L2093

TECHNICAL SUPPORT TO THE DIVISION OF  
LOW-LEVEL RADIOACTIVE WASTE  
MANAGEMENT - UMTRA

Mark T. Murphy  
(509) 376-8337  
October 1992

OBJECTIVE

Provide LLWM staff with technical assistance in support of the Uranium Mill Tailings Remedial Action (UMTRA) Project. Work performed will assist the NRC in fulfilling its responsibilities under the Uranium Mill Tailings Radiation Control Act of 1978, as amended. An additional objective of this project is to provide LLWM staff with technical support on reviews of operating Uranium recovery facilities (Title II) in accordance with the requirements of 10 CFR Part 40.

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TECHNICAL HIGHLIGHTS

Deliverables Submitted During Reporting Period

FEE RECOVERABLE - L2093

TASK 1 - Envirocare of Utah Environmental Impact Statement

Type

No deliverable date occurred within the reporting period.

NON-FEE RECOVERABLE - L1375

TASK 2 - Belfield/Bowman Remedial Action Plan Task Complete

TASK 3 - Ground Water Guidance Development

TASK 4 - Belfield/Bowman Follow-Up

Type

No deliverable date occurred within the reporting period.

Work Performed During Reporting Period

FEE RECOVERABLE - L2093

TASK 1 - Envirocare of Utah Environmental Impact Statement

On October 1, a meeting was held at NRC HQ in Rockville between NRC, Envirocare and PNL. The meeting revealed additional NRC concerns about the Envirocare Environmental Report (ER). The amended ER was promised to NRC and PNL in the October 31 time frame. Despite this, work was begun on the EIS by PNL that would cover the parts unaffected by the NRC concerns. A draft EIS outline was completed and portions of the affected environment section were begun. Additional work included project management cost and schedule control and routine project maintenance.

Work Performed During Reporting Period (continued)

## NON-FEE RECOVERABLE - L1375

TASK 2 - Belfield/Bowman Remedial Action Plan

The scope of this task is complete. No new direction has been issued by NMSS. No issues remain. Activities are limited to project management cost and schedule control, routine project maintenance and occasional discussions with NRC technical monitor.

TASK 3 - Ground Water Guidance Development

Task was initiated on October 1 following receipt of DOE work authorization. A project management plan was assembled using milestones and deliverables agreed to in the proposal. Work began on the preliminary review and work plan (element 010301) due in mid December. Contacts were made with members of the ASTM Working Group on Ground Water Investigation standards and members of the American Society of Civil Engineers task committee on the verification and validation of ground water models and with investigators at several national consulting firms. Draft documents are being obtained from all of these sources. A data base is being developed to integrate existing PNL, USGS, EPA and other data collection manuals as a basis for the WA guidance document.

TASK 4 - Belfield/Bowman Follow-Up

Additional work on this task is pending a response from DOE on the Belfield Bowman remedial efforts.

Meetings and Trips

See Work Performed under L2093 Task 1.

Schedule of Milestones and Deliverables

<u>Title</u>	<u>Deliverable Type</u>	<u>Planned Finish</u>	<u>Revised Finish</u>	<u>Task Expiration</u>	<u>Status</u>
FEE RECOVERABLE - L2093					
TASK 1 - Envirocare of Utah Environmental Impact Statement	Letter Report	5/23/91	5/23/91	12/93	Completed
	Letter Report	6/3/92	6/3/92		
	DEIS Draft	To be determined			
	DEIS Final	To be determined			
	FEIS Draft	To be determined			
FEIS Final	To be determined				
NON-FEE RECOVERABLE - L1375					
TASK 2 - Selfield/Bowman Remedial Action Plan	Data Review	3/15/91			
	Final Report	3/29/91	4/18/91	12/93	Completed
TASK 3 - Ground Water Guidance Development	Data Review	12/15/92		12/93	Active
	Initial Draft	1/22/93			
	Review Draft	3/19/93			
	Final Report	4/23/93			

Problem Areas and Resolutions

FEE RECOVERABLE - L2093

TASK 1 - Envirocare of Utah Environmental Impact Statement

The Envirocare ER is still not in its final form. Continued delays in this step have resulted in an unclear schedule for the EIS.

NON-FEE RECOVERABLE - L1375

TASK 2 - Belfield/Bowman Remedial Action Plan

The scope of this task is complete. No issues remain. This task can be closed out.

TASK 3 - Groundwater Guidance Development

The scope of this task is complete. No issues remain.

TASK 4 - Belfield/Bowman Follow-Up

No issues at present.

Plans for the Next Reporting Period

FEE RECOVERABLE - L2093

TASK 1 - Envirocare of Utah Environmental Impact Statement

PNL will continue to compose portions of the EIS that are not impacted by the remaining issues. PNL will review any changes requested by NRC in the ER and support the NRC actions in any way required.

NON-FEE RECOVERABLE - L1375

TASK 2 - Belfield/Bowman Remedial Action Plan

The scope of this task is complete. No issues remain. Task can be closed out.

TASK 3 - Ground Water Guidance Development

Draft guidelines will be obtained from the two working groups, the State of California, several consulting firms and other sources. These will be integrated with the USGS and PNL manuals to produce a complete review and description of existing industry standards on ground water QA and verification/validation.

Drs. Bergeron and Kincaid will examine on-going PNL efforts in ground water modeling verification and validation for applicability to NRC-UMTRA needs.

TASK 4 - Belfield/Bowman Follow-Up

Work on this task will continue on a pace and schedule determined by licensee responses.

Financial Status

The cost and funding information reported on the Cost Status by Element Table include the necessary adjustments to account for the FY93 DOE Adder of 3.2 percent. This represents a change from the DOE Adder of 3.3 percent in FY92 which is reflected in the Cumulative to Date figures. All other cost information reflects only the PNL cost and do not include the DOE Adder.

Variance Explanation

None.

Office of Nuclear Material Safety & Safeguards

FIN - L1375

NRC-UMTRA TECHNICAL SUPPORT  
NON FEE RECOVERABLE

Mark T. Murphy  
(509) 376-8337  
October 1992

COST STATUS BY ELEMENT

	<u>Current Month</u>	<u>Fiscal Year to Date</u>	<u>Cumulative To Date</u>
I. Direct Staff Labor Hours (hrs of charged effort)	18.5	18.5	1,052.9
II. Direct Salaries	\$ 566	\$ 566	\$ 37,031
Materials and Services	0	97	115
ADP Support	0	0	0
Subcontracts	0	0	0
Travel	0	0	2,452
Indirect Labor Cost	573	573	29,393
Other	182	182	6,958
General & Admin. Expense	<u>385</u>	<u>385</u>	<u>25,982</u>
Total PNL Costs	\$ <u>1,706</u>	\$ <u>1,706</u>	\$ <u>102,931</u>
Percent Spent	<u>1.2%</u>	<u>1.2%</u>	<u>42.5%</u>
Total Costs to NRC (Includes DOE Adder 3.2%, FY92:3.3%)	\$ <u>1,761</u>	\$ <u>1,761</u>	\$ <u>101,270</u>

III. Overall Funding Status

PNL Available Funding Status

(Adjusted: Reflects DOE Adder Initiated in FY92)

<u>Total</u>	<u>Prior FY</u>	<u>FY93 Projected</u>	<u>FY93 Funds</u>	<u>FY93 Funding</u>
<u>FIN Funding</u>	<u>Carryover</u>	<u>Funding Level</u>	<u>Received to Date</u>	<u>Balance Needed</u>
\$ 238,412	\$ 137,287	\$ 137,287	\$ -0-	\$ -0-

NRC Funding Provided to DOE

<u>Total</u>	<u>Prior FY</u>	<u>FY93 Projected</u>	<u>FY93 Funds</u>	<u>FY93 Funding</u>
<u>FIN Funding</u>	<u>Carryover</u>	<u>Funding Level</u>	<u>Received to Date</u>	<u>Balance Needed</u>
\$ 243,200	\$ 141,817	\$ 141,817	\$ -0-	\$ -0-

## IV. Task Assignment Funding Status

<u>Task Number and Title</u>	<u>Cost Ceiling<sup>1</sup></u>	<u>Current Month Costs</u>	<u>FY Costs To Date</u>	<u>Cumulative Costs to Date</u>
TASK 2 - Belfield/Bowman Remedial Action Plan	\$104.6	\$ 0.0	\$ 0.0	\$ 90.2
TASK 3 - Groundwater Guidance Development	\$ 83.4	\$ 1.3	\$ 1.3	\$ 6.5
TASK 4 - Belfield/Bowman Follow-Up	\$ 50.3	\$ .4	\$ .4	\$ 6.1

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<sup>1</sup> Net of DOE added factor.



Office of Nuclear Material Safety & Safeguards

FIN - L2093

NRC-UMTRA TECHNICAL SUPPORT  
FEE RECOVERABLE

Mark T. Murphy  
(509) 376-8337  
October 1992

COST STATUS BY ELEMENT

	<u>Current Month</u>	<u>Fiscal Year to Date</u>	<u>Cumulative To Date</u>
I. Direct Staff Labor Hours (hrs of charged effort)	158.0	158.0	2,351.8
II. Direct Salaries	\$4,683	\$ 4,683	\$71,650
Materials and Services	0	0	219
ADP Support	0	0	0
Subcontracts	0	0	0
Travel	952	952	6,833
Indirect Labor Cost	4,871	4,871	70,859
Other	670	670	11,129
General & Admin. Expense	<u>3,547</u>	<u>3,547</u>	<u>51,936</u>
Total PNL Costs	<u>\$ 14,723</u>	<u>\$ 14,723</u>	<u>\$212,628</u>
Percent Spent	<u>8.5%</u>	<u>8.5%</u>	<u>59.2%</u>
Total Costs to NRC (Includes DOE Adder 3.2%, 3.3% FY92)	<u>\$15,194</u>	<u>\$ 15,194</u>	<u>\$219,630</u>
III. Overall Funding Status			

PNL Available Funding Status

(Adjusted: Reflects DOE Adder Initiated in FY92)

<u>Total FIN Funding</u>	<u>Prior FY Carryover</u>	<u>FY93 Projected Funding Level</u>	<u>FY93 Funds Received to Date</u>	<u>FY93 Funding Balance Needed</u>
\$ 370,764	\$ 172,860	\$ 172,860	\$ -0-	\$ -0-

NRC Funding Provided to DOE

<u>Total FIN Funding</u>	<u>Prior FY Carryover</u>	<u>FY93 Projected Funding Level</u>	<u>FY93 Funds Received to Date</u>	<u>FY93 Funding Balance Needed</u>
\$ 383,000	\$ 178,564	\$ 178,564	\$ -0-	\$ -0-

## IV. Task Assignment Funding Status

<u>Task Number and Title</u>	<u>Cost Ceiling<sup>1</sup></u>	<u>Current Month Costs</u>	<u>FY Costs To Date</u>	<u>Cumulative Costs to Date</u>
TASK 1 - Envirocare of Utah Environmental Impact Statement	\$370.7	\$ 14.7	\$ 14.7	\$ 212.6

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<sup>1</sup> Net of DOE added factor.



FIN - L2093

NRC-UMTRA TECHNICAL SUPPORT  
FEE RECOVERABLE

Mark T. Murphy  
(509) 376-8337  
October 1992

FEE RECOVERY COST STATUS

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<u>Report Title</u>	<u>Insp. Report or TAC Number</u>	<u>Total for Period</u>	<u>Total for Period Plus DOE Adder</u>	<u>FY Cumulative Costs To Date</u>	<u>FY Cumulative Costs Plus DOE Adder</u>
Envirocare of Utah Environmental Impact Statement		\$ 14,723	\$ 15,194	\$ 14,723	\$ 15,194

Office of Nuclear Material Safety & Safeguards

FIN - L1375/L2093

TECHNICAL SUPPORT TO THE DIVISION OF  
LOW-LEVEL RADIOACTIVE WASTE  
MANAGEMENT - UMTRA

Mark T. Murphy  
(509) 376-8337  
December 1992

OBJECTIVE

Provide LLWM staff with technical assistance in support of the Uranium Mill Tailings Remedial Action (UMTRA) Project. Work performed will assist the NRC in fulfilling its responsibilities under the Uranium Mill Tailings Radiation Control Act of 1978, as amended. An additional objective of this project is to provide LLWM staff with technical support on reviews of operating Uranium recovery facilities (Title II) in accordance with the requirements of 10 CFR Part 40.

TECHNICAL HIGHLIGHTS

Work Performed During Reporting Period

FEE RECOVERABLE - L2093

TASK 1 - Envirocare of Utah Environmental Impact Statement

The text of the draft EIS was completed on December 13 and a discussion draft was forwarded to S. Wastler for review and comments. Peer review began soon thereafter. In the review, significant problems were uncovered with the radiological analysis. This discovery, coupled with the criticisms by NRC of the ER, required that additional calculations, analysis and editing be completed prior to submission of the formal draft. A project change request was issued to NRC on December 29 to solicit additional time to complete this effort. Other efforts included routine project management, schedule and cost control, and issue resolution.

NON-FEE RECOVERABLE - L1375

TASK 2 - Belfield/Bowman Remedial Action Plan

The scope of this task is complete. No new direction has been issued by NMSS. No issues remain. Activities are limited to project management cost and schedule control, routine project maintenance and occasional discussions with NRC technical monitor.

TASK 3 - Ground Water Guidance Development

On December 11, Mark T. Murphy attended the ASCE Ground Water Modeling Validation and Verification planning meeting at Bechtel, Inc. headquarters in San Francisco, California. Dr. Murphy also attended several technical sessions of the American Geophysical Union-Hydrology Section held the same week in San Francisco. The

TECHNICAL HIGHLIGHTS (cont'd)TASK 3 (cont'd)

work plan for the guidance document was submitted to NRC on December 15. The plan outlined the general breadth and philosophy of the investigation and presented the specific topics to be considered. Further work on this task awaits the approval/revisions of the NRC.

TASK 4 - Belfield/Bowman Follow-Up

Additional work on this task is pending a response from DOE on the Belfield Bowman remedial efforts.

Meetings and Trips

See Task 3, "Work Performed During Reporting Period."

Schedule of Milestones and Deliverables

<u>Title</u>	<u>Deliverable Type</u>	<u>Planned Finish</u>	<u>Revised Finish</u>	<u>Task Expiration</u>	<u>Status</u>
FEE RECOVERABLE - L2093					
TASK 1 - Envirocare of Utah Environmental Impact Statement	Letter Report	5/23/91	5/23/91	12/92	Completed
	Letter Report	6/3/92	6/3/92		Completed
	DEIS Draft	1/1/93	1/10/93	Active	
	DEIS Final	To be determined			
	FEIS Draft	To be determined			
	FEIS Final	To be determined			
NON-FEE RECOVERABLE - L1375					
TASK 2 - Belfield/Bowman Remedial Action Plan	Data Review	3/15/91			
	Final Report	3/29/91	4/18/91	12/92	Completed
TASK 3 - Ground Water Guidance Development	Work Plan	12/15/92		12/92	Completed
	Initial Draft	1/22/93			Active
	Review Draft	3/19/93			
	Final Report	4/23/93			

PROBLEM AREAS**FEE RECOVERABLE - L2093**TASK 1 - Envirocare of Utah Environmental Impact Statement

The draft EIS is essentially complete pending resolution of the problems with the dose calculations. This work poses no obvious technical problem and is expected to be complete within the additional ten days requested in the PCR.

**NON-FEE RECOVERABLE - L1375**TASK 2 - Belfield/Bowman Remedial Action Plan

The scope of this task is complete. No issues remain. This task can be closed out.

PLANS FOR THE NEXT REPORTING PERIOD

**FEE RECOVERABLE - L2093**

**TASK 1 - Envirocare of Utah Environmental Impact Statement**

We expect the technical revisions to the DEIS will be completed and the draft EIS will be complete by January 10. At that point, we will wait for final review by the NRC. If all comments are received before the end of the month, we will begin work on the next milestone, submission of the final DEIS for NRC release.

**NON-FEE RECOVERABLE - L1375**

**TASK 2 - Belfield/Bowman Remedial Action Plan**

The scope of this task is complete. No issues remain. Task can be closed out.

**TASK 3 - Ground Water Guidance Development**

When comments and approval to proceed are received, work will begin on the text of the draft guidance document.

**TASK 4 - Belfield/Bowman Follow-Up**

Work on this task will continue on a pace and schedule determined by licensee responses.

FINANCIAL STATUS

The cost and funding information reported on the Cost Status by Element Table include the necessary adjustments to account for the FY93 DOE Adder of 3.2 percent. This represents a change from the DOE Adder of 3.3 percent in FY92, which is reflected in the Cumulative to Date figures. All other cost information reflects only the PNL cost and does not include the DOE Adder.

VARIANCE EXPLANATION

**FEE RECOVERABLE - L2093**

Project is level of planned effort. See 'Technical Highlights,' Work Performed During Reporting Period. Due to significant problems uncovered in the review of the draft EIS, additional work was required prior to submission of the formal draft. This trend is expected to continue through January. Work should return to a normal level after the January time period.

**NON-FEE RECOVERABLE - L1375**

Project is level of planned effort. Work on Task 4 is on hold pending response from DOE. See 'Technical Highlights,' Work Performed During Reporting Period.

# PROJECT SUMMARY REPORT

1. ID (CONTRACT) NUMBER: DE-AC06-76RLD 1830		2. PROGRAM/PROJECT TITLE: TECHNICAL SUPPORT TO THE DIVISION OF LOW-LEVEL RADIOACTIVE WASTE MANAGEMENT - UMTRA					3. REPORTING PERIOD: DECEMBER, 1992			
4a. PARTICIPANT NAME AND ADDRESS PACIFIC NORTHWEST LABORATORY P.O. BOX 999 RICHLAND, WA 99352		4b. CLIENT NAME AND ADDRESS MRC/NMSS WASHINGTON, D.C. 20555					5. START DATE SEPTEMBER 1, 1991			
							6. COMPLETION DATE DECEMBER 31, 1993			

7. FY 93	8. MONTHS	O	N	D	J	F	M	A	M	J	J	A	S	FY94
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9. COST STATUS	<div style="position: relative; height: 300px;"> <div style="position: absolute; top: 0; left: 0; right: 0; border-bottom: 1px solid black; height: 2px;"></div> <div style="position: absolute; top: 0; left: 0; right: 0; border-bottom: 1px dashed black; height: 2px;"></div> </div>	225													
A. \$ EXPRESSED IN: THOUSANDS		200													
B. BUDGET & REPORTING NO./SUB.ACC'T NO.		175													
PROJECT # 17993		150													
DOE YDR 3087		125													
C. FIN NO. L1375		100													
D. ACTUAL COSTS PRIOR YEARS 101.1		75													
E. FY BUDGET 137.7		50													
F. TOTAL BUDGET 238.4		25													
G. FY FUNDS AUTH. 137.7															
H. TOTAL FUNDS AUTH. 238.9															

COSTS	I. PLANNED	11.7	12.2	12.2	12.2	12.2	12.2	12.1	0.2	0.2	0.2	0.2	0.2	51.5
	J. ACTUAL	1.7	10.7	6.2										
	K. VARIANCE	10.0	2.1	6.0										
	L. CUM PLANNED	11.7	23.9	36.1	48.3	60.5	72.7	84.8	85.0	85.2	85.4	85.6	85.8	137.3
	M. CUM ACTUAL	1.7	12.4	18.6										
	N. CUM VARIANCE	10.0	11.5	17.5										

10. LEGEND: PLANNED = . . . . . ACTUAL ————— PROJECTED ..... FUNDS AUTH. ————— 90% FUNDS SPENT ▴

11. MILESTONES:	O	N	D	J	F	M	A	M	J	J	A	S	FY94
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TASK 2 - BELFIELD/BOWMAN REMIDIAL ACTION PLAN  
- NO MILESTONES DEFINED @ THIS TIME

TASK 3 - GROUNDWATER GUIDANCE DEVELOPMENT  
- PRELIMINARY REVIEW + WORK PLAN  
- PREPARE INITIAL DRAFT  
- PREPARE REVIEW DRAFT  
- PREPARE FINAL DOCUMENT

TASK 4 - BELFIELD/BOWMAN FOLLOW-UP  
- NO MILESTONES DEFINED @ THIS TIME

LEGEND: SCHEDULED ▴  
DEVIATION ◊  
COMPLETED ▲  
TIME LINE —————  
PROGRESS LINE —————  
TIME NOW :

12. NAME/SIGNATURE OF PARTICIPANT'S PROG/PROJ MANAGER & DATE  
M.T. MURPHY (509) 376-8337



## Office of Nuclear Material Safety &amp; Safeguards

FIN - L2093

NRC-UMTRA TECHNICAL SUPPORT  
FEE RECOVERABLEMark T. Murphy  
(509) 376-8337  
December 1992

## COST STATUS BY ELEMENT

	<u>Current Month</u>	<u>Fiscal Year to Date</u>	<u>Cumulative To Date</u>
I. Direct Staff Labor Hours (hrs of charged effort)	300.9	691.9	2,885.7
II. Direct Salaries	\$10,155	\$22,041	\$ 89,008
Materials and Services	11	211	430
ADP Support	0	0	0
Subcontracts	0	0	0
Travel	1,526	3,157	9,038
Indirect Labor Cost	8,639	20,630	86,619
Other	1,351	3,159	13,524
General & Admin. Expense	<u>6,877</u>	<u>15,544</u>	<u>64,028</u>
Total PNL Costs	<u>\$28,559</u>	<u>\$64,742</u>	<u>\$262,647</u>
Percent Spent		<u>37.4%</u>	<u>70.8%</u>
Total Costs to NRC* (Includes DOE Adder)	<u>\$29,473</u>	<u>\$71,084</u>	<u>\$271,109</u>

## III. Overall Funding Status

PNL Available Funding Status  
(Adjusted: Reflects DOE Adder Initiated in FY92)

<u>Total FIN Funding</u>	<u>Prior FY Carryover</u>	<u>FY93 Projected Funding Level</u>	<u>FY93 Funds Received to Date</u>	<u>FY93 Funding Balance Needed</u>
\$ 370,942	\$ 172,860	\$ 173,036	\$ 176	\$ -0-

## NRC Funding Provided to DOE

<u>Total FIN Funding</u>	<u>Prior FY Carryover</u>	<u>FY93 Projected Funding Level</u>	<u>FY93 Funds Received to Date</u>	<u>FY93 Funding Balance Needed</u>
\$ 383,000	\$ 182,975	\$ 182,975	\$ -0-	\$ -0-

\* Total Cost to NRC for FYTD 93 will include \$4,669.92 rebilled costs from March 1992 that were previously disapproved per NRC OPAC Chargeback Statement, ALC Number 89-00-2901 of July 24, 1992.



## IV. Task Assignment Funding Status

<u>Task Number and Title</u>	<u>Cost Ceiling<sup>1</sup></u>	<u>Current Month Costs</u>	<u>FY Costs To Date</u>	<u>Cumulative Costs to Date</u>
TASK 1 - Envirocare of Utah Environmental Impact Statement	\$370.9	\$ 28.6	\$ 64.7	\$ 262.6

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<sup>1</sup> Net of DOE added factor.

FIN - L2093

NRC-UMTRA TECHNICAL SUPPORT  
FEE RECOVERABLE

Mark T. Murphy  
(509) 376-8337  
December 1992

FEE RECOVERY COST STATUS

<u>Report Title</u>	<u>Insp. Report or TAC Number</u>	<u>Total for Period</u>	<u>Total for Period Plus DOE Adder</u>	<u>FY Cumulative Costs To Date</u>	<u>FY Cumulative Costs Plus DOE Adder</u>
Envirocare of Utah Environmental Impact Statement		\$ 28,559	\$ 29,473	\$ 64,742	\$66,814
Rebilled Costs (March 1992)					<u>4,270</u> \$71,084