

Molycorp, Inc.
A Unocal Company
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MOLYCORP

July 19, 1995

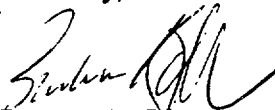
Mr. LeRoy Person
US Nuclear Regulatory Commission
Project Manager
Low Level Waste and Decommissioning
Projects Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards
Washington, DC 20555-0001

US NRC License No. SMB-1393

Dear Mr. Person:

We are forwarding under separate cover today the Site Decommissioning Plan (SDP) for Molycorp's Washington, PA facility. Enclosed is a revised cost estimate for decommissioning the facility according to the plan outlined in the SDP. Since this estimate is less than the one provided in the January 1995 Site Funding Plan, Molycorp is not amending the funding plan documentation for parent company guarantee.

Sincerely,


Barbara K. Dankmyer
Resident Manager

Enclosures

xc: J.J. Dean
D.R. Shoemaker

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APPENDIX F
COST ESTIMATING TABLES

1. Planning & Preparation

Table 1

<u>Task</u>	<u>Work Days</u>				<u>Total</u>	<u>Total Cost</u>
	<u>Supervisor</u>	<u>Foreman</u>	<u>H&S</u>	<u>Clerical</u>		
1. Preparation of Documentation for Regulatory Agencies	15			25	40 \$	4,251
2. Submittal of Decommissioning Plan to NRC when required by 10 CFR 30.36(c)(2), 40.42(c)(2) or 70.38(c)(2)	<i>Decommissioning Plan has been completed and is being submitted concurrently with cost update.</i>					
						<i>Environmental Justice:</i> \$ 10,000
						<i>Environmental Assessment:</i> \$ 150,000
3. Development of Work Plans	10		5	10	25 \$	4,900
4. Procuring of Special Equipment	5			2	7 \$	1,100
5. Staff Training	<i>Completed</i>				\$	-
6. Characterization of Radiological Condition of the Facility (Including soil and tailings analysis or groundwater analysis, if applicable)	<i>Site characterization has been completed. Expenses have been paid.</i>				\$	-
7. Other				25	25 \$	1,251
8. Total	30	0	5	62	97 \$	171,502

*For assistance in preparation of cost estimate for 10 CFR Part 72, consult NRC Office of Nuclear Material Safety and Safeguards.

APPENDIX F (Continued)
COST ESTIMATING TABLES

Table 2

<u>Position</u>	<u>Unit Cost for Workers</u>		<u>Worker Cost/year</u>
	<u>Basic Salaries (\$/yr)</u>	<u>Overhead Rate (%)</u>	
Supervisor A	41,567	25.1	52,000
Foreman	33,280	25.1	41,633
Water Wagon	29,928	25.1	37,440
Equipm't Oper A	41,567	25.1	52,000
Equipm't Oper B	36,579	25.1	45,760
Laborer	29,928	25.1	37,440
Project Manager	104,000	280.0	291,200
Supervisor B	59,429	280.0	166,401
Health & Safety	44,571	280.0	124,799
Field Eng.	59,429	280.0	166,401
Site Admin'tr	58,193	25.1	72,799
Clerical	10,400	25.1	13,010

2. Decontamination and/or Dismantling of Radioactive Facility Components*

	<u>No.</u>	<u>Dimen- sions</u>		<u>No.</u>	<u>Dimensions</u>
Fume Hood	0	-(m3)	Ventilation Ductwork	0	-(m)
Hot Cells	0	-(m3)	Amt. of Wall Space	0	2861 (m2)
Lab Benches	0	-(m)	Other	0	
Sink & Drain	0	-(m)	<i>Buildings will be verified as non-contaminated.</i>		

Table 3
Work Days

<u>Task</u>	<u>Foreman</u>	<u>Water Wagon</u>	<u>Operator A</u>	<u>Oper'tr B</u>	<u>Laborer</u>	<u>Total</u>	<u>Cost</u>
2. Decon/Dismantle Laboratories, Fume Hoods, Glove Boxes, Benches, etc.	<i>None.</i>						

*Indicate whether component is to be decontaminated to unrestricted released levels or packaged and disposed of at a low level waste site.

APPENDIX F (Continued)
 COST ESTIMATING TABLES

Table 3 (Continued)

Task	Work Days					Total	Total Cost
	Foreman	Water Wagon	Operator A	Oper'r B	Laborer		
3. Decon/Dismantle Waste Areas	<i>None.</i>						
-Radwaste Areas							
-Scrap Recovery Areas							
-Other							
4. Decon/Dismantle Services Facilities	<i>Interior Building Surveys including analytical. Contractor /consultant bid. Verify Buildings are not contaminated.</i>					\$	41,400
-Maintenance Shop							
-Decontamination Areas							
-Ventilation Systems							
-Other							
5. Decon/Dismantle Waste Treatment Facilities and Storage Areas on the Site (Including exhume and package contaminated soil and tailings, if any)	130	65	391	391	391	1368	233,497

APPENDIX F (Continued)
COST ESTIMATING TABLES

Table 3 (Continued)
Work Days

Task	Project Manager	Work Days				Total	Total Cost
		Super-visor	Health & Safety	Field Engineer	Site Admin.		
6. Monitor for Compliance, Reclean and Remonitor, if Necessary	<i>Outside Analytical Services</i>						35,000
		26	26	26			45,760
7. Other (e.g. contractor fees)	55	55	190	70	115	485	264,999

Table 4

Equipment/Supply	Quantity	Total Cost
<i>Equipment to be rented.</i>		
450" Excavators	2	\$ 53,000
Dumptrucks	8	\$ 300,000
Water Wagon	1	\$ 12,000
Loaders	2	\$ 38,000
Rollers	4	\$ 53,000
Dozers	2	\$ 26,000
Load All	1	\$ 12,000

3. Packaging, Shipping, and Disposal of Radioactive Wastes

Table 5

Waste Type	Volume (m3)	No. of Containers	Type of Containers	Unit Cost of Container	Cost of Container
<i>On Site Disposal - no containers necessary.</i>					
Total					

Table 6

Distance Shipped	_____ (miles)
Unit cost of shipment	_____ (\$/mile/truckload)
Additional charges	
Overweight	_____ (\$/mile)
Surcharges	_____ (\$/mile)

Waste Type	No. of Shipments	Unit Cost for Shipping	Distance Shipped	Surcharge	Transportation Cost
<i>On site disposal - no costs incurred in these areas.</i>					
Total					

APPENDIX F (Continued)
COST ESTIMATING TABLES

Table 7

Burial charges are costs for designing and constructing on-site disposal cell per cubic meter of waste buried in cell.

Burial Charges	<u>9.55 (\$/m3)</u>
Surcharges	
Per container	<u>0 (\$)</u>
Disposal	<u>0 (\$/m3)</u>

<u>Waste Type</u>	<u>Burial Volume(m3)</u>	<u>Unit Cost of Burial</u>	<u>Surcharge</u>	<u>Burial Cost</u>
FeNb Slag	32,000	9.55	0	\$ 305,600

4. Restoration of Contaminated Areas on Facility Ground

Table 8

Work Days

<u>Task</u>	<u>Foreman</u>	<u>Oper. A</u>	<u>Oper B.</u>	<u>Total</u>	<u>Total Cost</u>
Backfill and Restore Site	58	258	516	832	\$ 151,704
Seed & Soil					\$ 65,000

5. Final Radiation Survey

Table 9

Work Days

<u>Task</u>	<u>Supervisor</u>	<u>Foreman</u>	<u>H.P.</u>	<u>Equip Operator</u>	<u>Total</u>	<u>Total Cost</u>
Final Radiation Survey						
	<i>Contractor/Consultant Bid</i>					\$ 75,000

APPENDIX F (Continued)
COST ESTIMATING TABLES

6. Site Stabilization, Long-Term Surveillance (if applicable)

Table 10

Work Days

<u>Task</u>	<u>Supervisor</u>	<u>Foreman</u>	<u>H.P.</u>	<u>Equip Operator</u>	<u>Total</u>	<u>Total Cost</u>
Surveillance/Security						\$ 25,000
TOTAL for DECONTAMINATION & DECOMMISSIONING						\$ 1,908,464
Contingency at 25%						\$ 477,116
TOTAL						2,385,580

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November 12, 1992

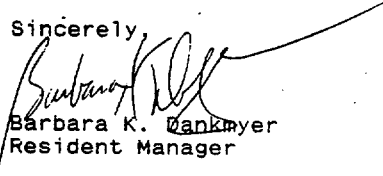
Mr. John H. Austin
United States Nuclear Regulatory Commission
Mail Stop 5R2
Washington, DC 20555

re: License No. SMB-1393
Site Characterization Plan

Dear Mr. Austin:

Please find enclosed our site characterization plan for
Unocal Molycorp's Washington, PA facility.

Sincerely,


Barbara K. Rankmyer
Resident Manager

cc: C. Glenn, NRC
J. Kinneman, NRC Region I
D. Shoemaker

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