



Advanced Medical Systems, Inc.

1020 London Road
Cleveland, OH 44110
(216) 692-3270

August 30, 1996

Mr. Roy Caniano
Deputy Director
Division of Nuclear Materials Safety
United States Nuclear Regulatory Commission
801 Warrenville Road
Lisle, Illinois 60523-4351

Re: Conceptual Decommissioning Plan - USNRC License No. 34-19089-01

Dear Mr. Caniano:

As required in provision 24(A) of Amendment No. 44 of the referenced license, enclosed is Revision 1 of the "Conceptual Decommissioning Plan for the London Road Facility". This revision, which assumes that the work specified in the June 10, 1996 proposal for the Building Recovery Project is complete, contains the decommissioning objective and its basis, a description of the items to be decommissioned, a description of the proposed decommissioning methodology, an ALARA analysis to support the proposed methodology, a cost estimate (1995 costs) for implementing the methodology, and a review schedule for ensuring the Plan's continued applicability for the duration of License No. 34-19089-01.¹

To expedite your review, I have also enclosed additional cost information for the preferred decommissioning option. This information is presented in the same format as Appendix F of USNRC Regulatory Guide 3.66, "Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70 and 72", June, 1990.

If you have any questions or if I can provide you with additional information, please call me at (216) 692-3270. I am looking forward to timely USNRC approval of Revision 1 of the Plan.

Sincerely,

Stephen J. Haddock, R.S.O.

cc: D. Cesar
D. A. Miller, Esq. - Stavole & Miller
C. D. Berger, C.H.P. - IEM

Enc. 1 - Conceptual Decommissioning Plan
Enc. 2 - Cost Estimating Table

¹ In regard to provision 24(A) of Amendment 44, a revised Decommissioning Funding Plan with the new decommissioning financial instrument (e.g., the revised stand-by letter of credit) was submitted to the USNRC on August 26, 1996.

Reg. Guide 3.66 (Appendix F) Cost Estimating Table for SAFSTOR Alternative

Table 1

Planning and Preparation						
Task	Work Days					Total Cost (\$)
	Supervisor	Foreman	HP	Clerical	Total	
Preparation of Documentation for Regulatory Agencies	4	4	4	.5	12.5	3796
Submittal of Decommissioning Plan to NRC when required by 10 CFR 30.36	10	10	10	1	31	9464
Development of work plans	10	10	10	1	31	9464
Procurement of Special equipment	2	2	1	.5	5.5	1508
Staff training	1	1	1	.5	3.5	988
Characterization of radiological condition of the facility (including soil and tailings analysis or groundwater analysis, if applicable)	2	5	2	1	10	2600
Other	0	0	0	0	0	0
Total	29	32	28	4.5	93.5	27820

Table 2

Position	Unit Cost for Workers		Worker Cost/year (\$)
	Basic Salaries (\$/yr)	Overhead Rate (%)	
Supervisor	60000	30	78000
Foreman	40000	30	52000
Craftsman	30000	30	39000
Technician	30000	30	39000
Health Physicist	80000	30	104000
Laborer	30000	30	39000
Clerical	20000	30	26000

Decontamination and/or dismantling of Radioactive Facility components					
	No.	Dimensions		No.	Dimensions
Glove Boxes	0	n/a	Amount of Floor Space	—	15 m ²
Fume Hood	0	n/a	Ventilation duct work	—	0 m
Hot Cells	1	27 m ²	Amount of Wall Space	—	55 m ²
Lab Benches	0	n/a	Other	—	—
Sink and Drain	0	n/a		—	—

Table 3

Task	Work Days							Total Cost (\$)
	Super visor	Forem au	Techni cians	HP	Crafts men	Labor er	Total	
Decon/dismantle major components and/or processing storage tanks (Hot cell SAFSTOR and decontamination after SAFSTOR)	5	5	10	5	2	10	37	8112
Decon/dismantle waste areas (radwaste area, scrap recovery, other) WHUT room	8	8	15	10	2	15	58	13312
Monitor for compliance, reclean and monitor, if necessary	1	4	5	1	0	5	16	3120
Other (e.g., contractor fees)	20	—	—	—	—	—	10	6240
Total								30784

Table 4

Equipment/supply	Quantity	Cost
Personnel protective equipment	1 lot	20000
Misc. Decon supplies	1 lot	25000
Security system upgrade SAFSTOR	1 each	2000
Office supplies, misc. other	1 lot	2000
Survey equipment	1 lot	4000
Decon equipment rental	1 month	15000
Misc. items for 20 yr. SAFSTOR	1 lot	20000
Total		88000

Table 5

Waste type	Volume (m ³)	No. Of containers	Type of Container	Unit Cost of Container	Cost of Container
LLW	1.4	1	B-25	500	500
Total	3.42	1			500

Table 6

Distance shipped			2525 (miles)		
Unit Cost for shipment			2.65 (\$/mile/truckload)		
Additional Charges - Overweight			0 (\$/mile)		
Additional Charges - Surcharge			0 (\$/mile)		
Waste Type	No. Of shipments	Unit Cost for shipping (\$)	Distance Shipped (miles)	Surcharge (\$)	Transportation Cost (\$)
LLW	1	2.65	700	0	1855
Total					6691

Table 7

Burial Charges			340 (\$/ft ³)		
Surcharges - Per container			0 (\$)		
Surcharges - Disposal			0 (\$/ft ³)		
Waste Type	Burial Volume (ft ³)	Unit Cost of Burial (\$/ft ³)	Surcharge (\$)	Burial Cost (\$)	
Class A - LLW	200	340	0	68000	
Asbestos	21	150	0	3150	
Total					71150

Table 8

Restoration of Contaminated Areas on Facility Ground						
Task	Work Days					Total Cost (\$)
	Supervisor	Foreman	HP	Clerical	Total	
Backfill and restore site	0	0	0	0	0	0

Table 9

Final Radiation Survey						
Task	Work Days					Total Cost (\$)
	Supervisor	Foreman	HP Tech	Clerical	Total	
Outdoor release survey	4	15	15	1	40	6812
Building release survey	5	25	25	5	60	11120
Total	9	40	40	6	100	17992

Table 10

Site Stabilization, Long-Term Surveillance (if applicable)						
Task	Work Days					Total Cost (\$)
	Supervisor	Foreman	HP	Clerical	Total	
On-going building maintenance and surveys (20 yr)	50	240	25	50	365	81120