

VOID SHEET

TO: License Fee Management Branch

FROM: Region IV

SUBJECT: VOIDED APPLICATION

Control Number: 463099

Applicant: Dept. of the Army

Date Voided: 7/23/90

Reason for Void: no action

necessary. Corrected copy to be issued for decommissioning. No review accomplished

Billic Brzezynski 7/23/90
Signature Date

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

- Refund Authorized and processed
- No Refund Due
- Fee Exempt or Fee Not Required

Comments: _____

000100 _____

Log completed

Processed by: W. Kessid

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REG4 LIC30
MATSLICENSING PDR



DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
5109 LEESBURG PIKE
FALLS CHURCH, VA 22041-3258



REPLY TO
ATTENTION 3F

May 31, 1990

Preventive and Military
Medicine Consultants Division

U.S. Nuclear Regulatory Commission
Region IV
Nuclear Materials Safety Section
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Dear Sir:

Enclosed is the Decommissioning Funding Plan for the
Byproduct Material License Number 05-00046-13 (Medical Use),
Fitzsimons Army Medical Center, Aurora, Colorado.

Recommend approval.

Sincerely,

Charles E. Day, III
Lieutenant Colonel, U.S. Army
Radiological Hygiene Consultant

Enclosure

U.S. N.R.C.
137 FEE MGMT. DIVISION

90 AUG -3 P 2:46

RECEIVED

463099

ORIGINAL



DEPARTMENT OF THE ARMY

FITZSIMONS ARMY MEDICAL CENTER
AURORA, COLORADO 80045-5000



3001233

3000107

18 May 1990

REPLY TO
ATTENTION OF

HSBG-RP (385-11m)

MEMORANDUM THRU

Commander, U.S. Army Health Services Command, ATTN: ~~HSPA-P~~,
~~Fort Sam Houston, Texas 78234-6000~~

Robert A. Cheney
LTC, MS
25 May 90

Office of the Surgeon General, ATTN: DASG-PSP-E, 5111 Leesburg
Pike, Falls Church, Virginia 22041-3248

FOR U.S. Nuclear Regulatory Commission, Region IV, Material
Radiation Protection Section, 611 Ryan Plaza Drive,
Suite 1000, Arlington, Texas 76011

SUBJECT: Transmission of Decommissioning Funding Plan for
Fitzsimons Army Medical Center, NRC Material License Nos.
05-00046-13 (Medical Use) and 05-00046-15 (Teletherapy).

1. In accordance with 10 CFR 30.35, the Decommissioning Funding Plan (DFP) for Fitzsimons Army Medical Center (FAMC) (Enclosed) is submitted for approval. This DFP pertains to License No. 05-00046-13 (Medical Use) only.
2. Condition 13 of License No. 05-00046-15 (Teletherapy) exempts FAMC from the financial assurance requirement for this particular license.
3. Questions concerning this action may be directed to 2LT Clayton at (303) 361-8411.

FOR THE COMMANDER

Encl

EUGENE W. POTTER
LTC, MS
C, Radiation Protection Office

ORIGINAL

DECOMMISSIONING FUNDING PLAN

STATEMENT OF INTENT

Principal: Commander
Fitzsimons Army Medical Center
ATTN: HSHG-RP
Aurora, Colorado 80045-5001

NRC BML Number: 05-00046-13
Type of Licensee: Federal Government

Issued to: U.S. Nuclear Regulatory Commission

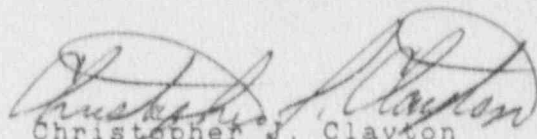
Description: Fitzsimons Army Medical Center is a 500 bed hospital with a Department of Nuclear Medicine, a Department of Clinical Investigations, and RIA Laboratory.

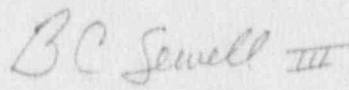
Certification: This is to certify that Fitzsimons Army Medical Center is licensed to possess the types of material in the following amounts listed in Enclosure 1, and that financial assurance in the amount determined by a site-specific cost estimate for decommissioning (Encl 2), \$20,000, will be requested and obtained sufficiently in advance of decommissioning so as to prevent delay of required activities.

Cost Estimate Adjustments: Periodic review of the cost estimate will occur to take into account inflation, changes in facility conditions, and changes in expected decommissioning procedures.

Authority: The Director of Resource Management for Fitzsimons Army Medical Center has been granted the authority to sign this Statement of Intent by the Commander in accordance with the letter dated August 22, 1989 (Encl 3) and Army Regulation 37-1, Army Accounting Guidance.

Date: 18 MAY 1990


Christopher S. Clayton
Second Lieutenant, U.S. Army
Radiation Protection Officer


B.C. Sewell, III
Lieutenant Colonel, U.S. Army
Dir of Resource Management

Encl

AUTHORIZED RADIOACTIVE MATERIAL

Byproduct, source, and/or special nuclear material	Chemical and/or physical form	Max amount that licensee may possess at any one time under this license
Any byproduct material with atomic numbers 1 through 83	Any except sealed sources	Not to exceed 500 millicuries per radionuclide except:
	Hydrogen-3	5 Curies
	Molybdenum-99	10 Curies
	Technetium-99m	10 Curies
	Iodine-125	1 Curie
	Iodine-131	2 Curies
	Xenon-133	2 Curies
Any byproduct material with atomic numbers 4 through 84	Sealed sources	Not to exceed 2 curies per source
Uranium, Natural or Depleted	Shielding Material	Not to exceed 999 kilograms

DECOMMISSIONING FUNDING PLAN

COST ESTIMATING TABLES

1. Planning and Preparation

For both Tables 1 and 2, the work day costs and the annual salaries were determined from the current staffing of the Radiation Protection Office here at Fitzsimons Army Medical Center. This staffing is subject to periodically change which would either raise or lower the values in Tables 1 and 2.

2. Decon and/or Dismantling of Radioactive Facility Components

All components of Fitzsimons Army Medical Center that could possibly come in contact with any radioactive material were taken into consideration, not just contact with long lived radioactive material. Rather than single out individual work spaces that currently utilize long lived radioactive material, all work spaces that use or could possibly use long lived radionuclides were accounted for in the numbers and dimensions of the components that would need decontamination and/or dismantling.

Table 3 reflects these considerations in the calculation of work days and the total cost. The laborer cost is based on the current cost for contract labor at Fitzsimons Army Medical Center.

Table 4 shows only the equipment needed for decontamination. Equipment that will be needed for dismantling procedures is currently located at Fitzsimons or will be supplied by the contract labor.

3. Packaging, Shipping, and Disposal of Radioactive Waste

The Unit Cost of Container in Table 5 is based on the price that the contractors for the burial site currently charge.

The distance shipped is based on the mileage from Denver, Colorado to Beatty, Nevada. The unit cost for shipment in Table 6 was calculated from a flat rate per cubic meter.

The burial charges in Table 7 was also calculated from a flat rate per cubic meter.

4. Restoration of Contaminated Areas on Facility Ground

N/A

5. Final Radiation Survey

Costs are based on previous annotated assumptions.

6. Site Stabilization, Long-Term Surveillance

N/A

COST ESTIMATING TABLES

1. Planning and Preparation

Table 1

Task	Supervisor	Work Days			Total	Total Cost
		Foreman	HP Tech	Clerical		
1. Preparation of Documentation for Regulatory Agencies	5	0	1	3	9	\$745.76
2. Submittal of Decommissioning Plan to NRC when required by 10CFR30.36(c)(2)	5	0	0	2	7	\$606.08
3. Development of Work Plans	5	0	2	0	7	\$639.68
4. Procuring of Special Equipment	5	0	2	0	7	\$639.68
5. Staff Training	2	0	3	0	5	\$428.01
6. Characterization of Radiological Condition of the Facility	0	0	4	0	4	\$312.96
7. Other	0	0	0	0	0	\$0.00
8. Total	22	0	12	5	39	\$3,372.17

Table 2

Position	Unit Cost for Workers		
	Basic Salaries (\$/yr)	Overhead Rate (%)	Worker cost/year (\$)
Supervisor	\$23,196.00		\$23,196.00
Foreman			
Craftsman			
Technician	\$18,780.00		\$18,780.00
Health Physicist			
Contract Laborer	\$30,450.00		\$30,450.00
Clerical	\$14,746.00		\$14,746.00
Other			
		Total:	\$87,172.00

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2. Decontamination and/or Dismantling of Radioactive Facility Components

Component	Number	Dimensions
Glove Boxes	0	0 (m ³)
Fume Hoods	9	44300 (m ³)
Hot Cells	0	0 (m ³)
Lab Benches	11	5000 (m ²)
Sink and Drain	6	300 (m ²)
Ventilation Ductwork	9	3600 (m)
Amt of Floor Space	6	12500 (m ²)
Amount of Wall Space	8	10900 (m ²)
Other	0	0

Table 3

Work Days

Task	Supervisor	Foreman	Technicians	H.P.	Craftsman	Laborer	Total	Total Cost
1. Decon/Dismantle Major Components and Processing Tanks	0	0	0	0	0	0	0	\$0.00
2. Decon/Dismantle Laboratories, Fume Hoods, Glove Boxes, Benches, etc.	5	0	10	0	0	15	30	\$3,243.85
3. Decon/Dismantle Waste Areas	5	0	10	0	0	5	20	\$1,643.85
4. Decon/Dismantle Service Facilities	5	0	10	0	0	5	20	\$1,643.85
5. Decon/Dismantle Waste Treat Facility	0	0	0	0	0	0	0	\$0.00
6. Monitor for compliance, reclean and remonitor if needed	5	0	10	0	0	10	25	\$2,443.85
7. Other- contractor	0	0	10	0	0	10	20	\$2,121.70

Total Cost: \$11,097.10

Table 4

Equipment/Supply	Quantity	Cost
Radiac Wash	20 gal	\$255.00
Plastic Bags	250 ea	\$18.86
Paper Towels	40 pkg	\$26.40
Total Cost :		\$300.26

3. Packaging, Shipping, and Disposal of Radioactive Wastes

Table 5

Waste Type and Form	Waste Class	Volume (m ³)	No. of Containers	Type of Containers	Unit Cost of Container	Cost of Container
H-3, Solid	A	0.6853	4	55 gal drum	\$28.00	\$112.00
C-14, Solid	A	0.2436	2	55 gal drum	\$28.00	\$56.00
Co-57, Solid	A	1.6596	8	55 gal drum	\$28.00	\$224.00
Totals :		2.5885	14		Total Cost :	\$392.00

Table 6

Distance Shipped	800.00 (miles)
Unit cost for shipment	\$1,094.74 (\$/m ³)
Additional charges	
Overweight	\$0.00 (\$/mile)
Surcharges	\$0.00 (\$/mile)

Waste Type and Form	Waste Class	No. of Shipments	Unit Cost for Shipping	Distance Shipped	Surcharge	Transport. Cost
H-3, Solid	A	1	\$1,094.74	800 miles	\$0.00	\$750.23
C-14, Solid	A	1	\$1,094.74	800 miles	\$0.00	\$266.68
Co-57, Solid	A	1	\$1,094.74	800 miles	\$0.00	\$1,816.83
Total Cost :						\$2,833.74

Table 7

Burial Charges	\$2,436.67 (\$/m ³)
Surcharges	
Per container	\$0.00 (\$)
Disposal	\$0.00 (\$/m ³)

Waste Type and Form	Waste Class	Burial Volume	Unit Cost of Burial	Surcharge	Burial Cost
H-3, Solid	A	0.6853	\$2,436.67	\$0.00	\$1,669.85
C-14, Solid	A	0.2436	\$2,436.67	\$0.00	\$593.57
Co-57, Solid	A	1.6596	\$2,436.67	\$0.00	\$4,043.90
Total Cost :					\$6,307.32

4. Restoration of Contaminated Areas on Facility Ground

Table 8

Task	Supervisor	Work Days			Total	Total Cost
		Foreman	HP Tech	Clerical		
Backfill and Restore Site	0	0	0	0	\$0.00	

5. Final Radiation Survey

Table 9

Task	Supervisor	Work Days			Total	Total Cost
		Foreman	HP Tech	Clerical		
Close-out Survey and Reports	5	0	5	3	13	\$1,058.72

6. Site Stabilization, Long-Term Surveillance

Table 10

Task	Supervisor	Work Days			Total	Total Cost
		Foreman	HP Tech	Clerical		

----- NOT APPLICABLE -----

Decommissioning Funding Plan Summary

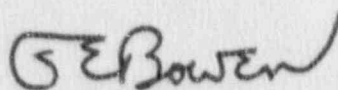
Total Work Days : 120 days
 Total Supply Cost : \$300.26
 Total Disposal Cost: \$3,225.74
 Total Labor Cost : \$15,527.99
 Total Cost : \$19,053.99

22 Aug 89

MEMORANDUM FOR LTC B.C. Sewell, III, MS, Director of Resource Management

SUBJECT: Delegation of Authority

1. Effective 22 Aug 89, you are delegated the following authority: To certify and obligate funds, to assume the responsibility for administrative control of funds for the purpose of assuring that cumulative obligations or expenditures are not in excess of available funds or limitations specified by higher authority, to further distribute funds received, and to impose restrictions as required to maintain such funds.
2. Authority: AR 37-1, para 9-3.
3. Relieved: I retain the authority to cancel or withdraw this delegated authority at any time. Upon change of my duties, this delegation is subject to review for the purpose of cancellation or renewal by the incumbent. Delegated authority is automatically cancelled upon your retirement, change of duties, or change of position for which this authority has been delegated.
4. Special instructions: None.



THOMAS E. BOWEN
Brigadier General, MC
Commanding

CF:
Off Mil Pers Jacket
DRM (3)
FAD

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Encl 3