

ACCEPTANCE REVIEW MEMO

Licensee: Global Nuclear Medicine, Inc.
License No.: 11-27738-01 **Docket No.:** 030-36081
Mail Control No.: 470786
Type of Action: Amend **Date of Requested Action:** 11-30-05
Reviewer Assigned: **Date Assigned to Reviewer:** 12-14-05
Reviewer(s) Who Performed Review: Gaines

Response Received	Deficiencies Noted During Acceptance Review
1.	
2.	
3.	
4.	

Reviewer's Initials: _____ **Date:** _____

Branch Chief's and/or SR. HP's Initials: _____ **Date:** _____

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Action - decommissioning notification should be issued within 30 days.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Termination request < 90 days from date of expiration
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Action to be expedited
		____ Medical emergency
		____ Licensee in noncompliance (i.e. no RSO, location of use/storage not on license, radioactive material in possession not on license)
		____ National Security
		____ Other (_____)

Branch Chief's and/or Sr. HP's Initials: _____ **Date:** _____

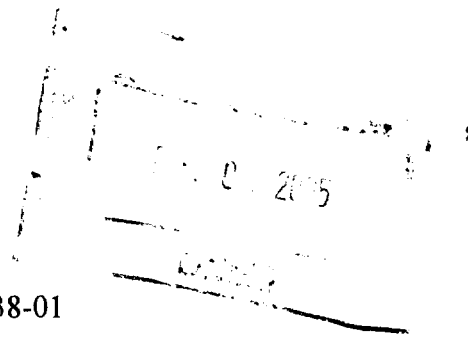
SISP Review		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Non-Publicly Available, Sensitive if <u>any</u> item below is checked
		____ Radionuclides, forms, and quantities
		____ Location of RAM
		____ Building drawings with locations of RAM
		____ Security of RAM (locks, alarms, etc.)
		____ SS&D Catalog information
		____ Specifics of Emergency Plan (routes to and from RAM, response to security events, etc.)
		____ Safeguards Information

Branch Chief's and/or Sr. HP's Initials: ADG **Date:** 12/14/05

ADG

11/30/2005

Licensing Division
US Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005



Subj: Amendment of License Number 11-27738-01

Dear Madam or Sir:

The purpose of this amendment request is decommission the facility located at 1423 Highway #2, Sandpoint, Idaho.

Enclosed are the results of the closeout survey. In brief, there is no residual radiation left at the facility, which has been empty for two months now. The last use of I-131 at this facility was in December, 2004. Since that time, the only other radionuclides used were Tc-99m and Tl-201. The enclosed closeout survey documents that there is no longer any radioactive contamination of this facility from our previous operations there.

Please contact me if you have any questions concerning this amendment request.

Sincerely,

Handwritten signature of Thomas F. Heston, MD.

Thomas F. Heston, MD
Radiation Safety Officer

Attachment (2): Closeout survey report, and closeout survey readings.

Global Nuclear Medicine, Inc.
License No. 11-27738-01

Closeout Survey – Nuclear Medicine Imaging Room and Hot Lab
1423 Highway #2, Sandpoint, Idaho Location of Use
11/30/2005

1. List of isotopes, quantities, and dates of last use for radioactive materials used: Tc-99m, 20-35 mCi per dose for cardiac imaging and sodium iodide I-131 for treatment of thyroid disorders and cardiac dysfunction. The last date of use for diagnostic Tc-99m labeled radiopharmaceuticals is October 22, 2005. The last date of use for sodium iodide I-131 was December 29, 2004, when 10.1 mCi was administered.
2. The physical form for Tc-99m is liquid, I-131 was used in encapsulated form.
3. History of major spills or possible spread of radiologic contamination to inaccessible areas: No major spills or radiologic contamination.
4. Sealed source information: Sealed sources used for instrument calibration and quality control procedures were relocated prior to performing the surveys. None of the sealed sources were leaking or had ever failed a leak test.
5. The survey results are as follows:
 - a. Dose rate surveys were performed at each location on the survey maps. The survey results were obtained by holding the detector one meter above work surfaces, allowing the meter to stabilize, and noting the exposure rate. Representative background readings were obtained from a non-radioactive materials use area, (hallway outside the room). Dose rate survey results did not locate any radiation above background readings, (0.02 mR/hour).
 - b. Scanning surveys were performed over 100% of work surfaces and lower walls by moving the detector slowly back and forth at a speed of about one detector width per second and at a distance of less than 1 centimeter. Representative background readings were obtained from a non-radioactive materials use area, (hallway outside the room). Scanning survey results did not locate any radioactive contamination above background readings, (35 counts per minute).
 - c. Wipe surveys were taken from numbered locations on the survey maps. Removable activity levels were determined using numbered thin soft absorbent paper squares, approximately 2 x 2 cm. Moderate pressure was applied to the smear with two or three fingers during surface wipe sampling. Wipe sampling occurred as a repeated "S" pattern over the entire grid area. The smears were then placed in counting vials with 7 ml of counting solution and identified with the numbered location or other pertinent information. One smear sample for removable contamination was obtained from each measurement location. The counting system used is a Beckman 5800 LSC. The wipe sample analysis used three channels, (windows) – 0-18.6 keV, 0-156 keV, and 0-2000 keV. ***Please note the LSC assay printout indicates the window settings are 0-400, 0-670, and 0-1000. These settings are not in keV units but instead are specific voltage settings prescribed by the manufacturer to coincide with the above energy windows.*** Representative background wipe samples were taken from a non-radioactive materials use area, (hallway outside the room). Wipe survey results did not locate any radioactive contamination above background readings, (22-25 counts per minute).

6. Survey instrument calibration data is appended to this report. The instrument used to assay the wipe samples has an efficiency for ^{99m}Tc of about 50% per the manufacturer. The instrument MDA is calculated as 28 dpm or 1.3×10^{-5} uCi, using the Sorenson formula.

7. The survey meter used to perform the scanning and dose rate surveys is a Ludlum Model 14C attached to a Model 44-9 pancake detector. The survey meter was checked for constancy prior to and after the survey. The meter was within its calibration cycle.

8. Survey maps indicating the location of the above samples are attached to this report.

9. Decontamination of the room or any of the equipment within the room was unnecessary since the survey results did not identify any radioactive contamination. Further, the materials used in this location had decayed to amounts less than the applicable quantities of Appendix C to 10 CFR Part 20.



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Thomas F. Heston, MD

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DATE: 11-30-05

SENT TO: NPC attn: Jackie Cook

@ FAX NUMBER: 817-960-9267

FROM: Global Nuclear Medicine

RE: amendment

OF PAGES: 4

COMMENTS:

37	**-	1	1.00	21917.00	120680.00	121489.00	-3.0
38	**-	2	1.00	164204.00	167337.00	167367.00	-3.0
39	**-	3	1.00	26.00	36.00	54.00	-5.0

C-14
H-3
RKG

Standards

USER: / ID: / PRESET TIME: 11.00 WED 23 NOV 2005 11:03
 SAMPLE REPEAT: 0 CYCLE REPEAT: 1 SCR:N RS232:N
 H#: 1 AQC:N QCF:N RCM:N 2 PHASE MONITOR:N
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 0.50 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: C
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 0.50 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: C
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 0.50 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: C
 DATA CALC: CPM. UNKNOWN REPLICATES: 1 NORM FACTOR: 0 1.00000
 HALF LIFE(DAYS):N

SAM	POS	TIME	CPM1	CPM2	CPM3	AVG H#	ERF
1	**-- 1	1.00	16.00	24.00	34.00	165.0	
2	**-- 2	1.00	15.00	27.00	32.00	139.0	
3	**-- 3	1.00	12.00	26.00	36.00	133.0	
4	**-- 4	1.00	13.00	23.00	27.00	139.0	
5	**-- 5	1.00	24.00	36.00	43.00	153.0	
6	**-- 6	1.00	19.00	29.00	35.00	139.0	
7	**-- 7	1.00	28.00	35.00	40.00	123.0	
8	**-- 8	1.00	17.00	29.00	39.00	121.0	
9	**-- 9	1.00	17.00	27.00	32.00	157.0	
10	**--10	1.00	17.00	24.00	31.00	114.0	
11	**--11	1.00	18.00	28.00	34.00	151.0	
12	**--12	1.00	20.00	23.00	31.00	160.0	
13	**--13	1.00	30.00	43.00	54.00	195.0	
14	**--14	1.00	11.00	20.00	27.00	137.0	
15	**--15	1.00	13.00	23.00	31.00	139.0	
16	**--16	1.00	19.00	29.00	38.00	143.0	
17	**--17	1.00	21.00	31.00	35.00	167.0	
18	**--18	1.00	13.00	21.00	27.00	114.0	
19	**-- 1	1.00	13.00	23.00	27.00	112.0	
20	**-- 2	1.00	12.00	26.00	35.00	146.0	
21	**-- 3	1.00	13.00	27.00	31.00	116.0	
22	**-- 4	1.00	15.00	24.00	29.00	106.0	
23	**-- 5	1.00	12.00	23.00	31.00	116.0	
24	**-- 6	1.00	17.00	23.00	31.00	108.0	
25	**-- 7	1.00	20.00	35.00	42.00	114.0	
26	**-- 8	1.00	17.00	22.00	28.00	151.0	
27	**-- 9	1.00	24.00	31.00	34.00	112.0	
28	**--10	1.00	17.00	22.00	29.00	103.0	
29	**--11	1.00	11.00	18.00	25.00	146.0	
30	**--12	1.00	13.00	18.00	31.00	107.0	
31	**--13	1.00	8.00	21.00	25.00	139.0	
32	**--14	1.00	17.00	28.00	40.00	135.0	
33	**--15	1.00	15.00	22.00	27.00	125.0	
34	**--16	1.00	20.00	30.00	37.00	167.0	
35	**--17	1.00	10.00	21.00	26.00	100.0	
36	**--18	1.00	18.00	37.00	45.00	148.0	
37	**-- 1	1.00	21.00	26.00	35.00	134.0	
38	**-- 2	1.00	12.00	28.00	37.00	144.0	
39	**-- 3	1.00	20.00	36.00	40.00	125.0	
40	**-- 4	1.00	23.00	29.00	35.00	157.0	
41	**-- 5	1.00	19.00	22.00	27.00	142.0	
42	**-- 6	1.00	16.00	23.00	27.00	125.0	
43	**-- 7	1.00	14.00	25.00	33.00	108.0	
44	**-- 8	1.00	12.00	24.00	36.00	135.0	

LINE NO	DATE	QTY	UNIT	PRICE	AMOUNT	TOTAL
45 **- 9	1.00	12.00		18.00	26.00	156.0
46 **-10	1.00	18.00		27.00	29.00	162.0
47 **-11	1.00	13.00		24.00	27.00	121.0
48 **-12	1.00	13.00		25.00	32.00	167.0
49 **-13	1.00	13.00		26.00	36.00	108.0
50 **-14	1.00	22.00		33.00	41.00	119.0
51 **-15	1.00	16.00		23.00	32.00	109.0
52 **-16	1.00	13.00		21.00	33.00	161.0
53 **-17	1.00	20.00		31.00	41.00	114.0
54 **-18	1.00	18.00		29.00	37.00	111.0
55 **- 1	1.00	22.00		32.00	35.00	93.0
56 **- 2	1.00	12.00		22.00	31.00	134.0
57 **- 3	1.00	14.00		22.00	31.00	114.0
58 **- 4	1.00	8.00		20.00	30.00	115.0
59 **- 5	1.00	16.00		25.00	30.00	130.0
60 **- 6	1.00	9.00		13.00	25.00	103.0
61 **- 7	1.00	7.00		19.00	26.00	112.0
62 **- 8	1.00	19.00		24.00	29.00	113.0
63 **- 9	1.00	14.00		20.00	27.00	114.0
64 **-10	1.00	21.00		30.00	35.00	110.0
65 **-11	1.00	13.00		30.00	38.00	118.0
66 **-12	1.00	21.00		26.00	32.00	108.0
67 **-13	1.00	14.00		22.00	32.00	162.0
68 **-14	1.00	19.00		30.00	39.00	117.0
69 **-15	1.00	9.00		17.00	30.00	143.0
70 **-16	1.00	20.00		29.00	37.00	104.0
71 **-17	1.00	12.00		23.00	30.00	90.0
72 **-18	1.00	15.00		32.00	44.00	107.0
73 **- 1	1.00	12.00		23.00	35.00	113.0
74 **- 2	1.00	18.00		29.00	36.00	119.0
75 **- 3	1.00	15.00		24.00	34.00	141.0
76 **- 4	1.00	12.00		18.00	27.00	121.0
77 **- 5	1.00	17.00		25.00	30.00	103.0
78 **- 6	1.00	11.00		19.00	25.00	133.0
79 **- 7	1.00	16.00		24.00	36.00	120.0
80 **- 8	1.00	18.00		29.00	37.00	111.0
81 **- 9	1.00	22.00		29.00	34.00	115.0
82 **-10	1.00	18.00		29.00	39.00	106.0
83 **-11	1.00	17.00		27.00	38.00	114.0
84 **-12	1.00	14.00		21.00	24.00	118.0
85 **-13	1.00	9.00		18.00	33.00	121.0
86 **-14	1.00	11.00		14.00	27.00	140.0
87 **-15	1.00	27.00		33.00	37.00	116.0
88 **-16	1.00	13.00		26.00	32.00	128.0
89 **-17	1.00	19.00		26.00	32.00	149.0
90 **-18	1.00	24.00		33.00	41.00	120.0
91 **- 1	1.00	18.00		29.00	40.00	162.0
92 **- 2	1.00	13.00		19.00	27.00	130.0
93 **- 3	1.00	11.00		30.00	33.00	125.0
94 **- 4	1.00	14.00		21.00	25.00	116.0
95 **- 5	1.00	11.00		20.00	26.00	144.0
96 **- 6	1.00	11.00		26.00	32.00	110.0
97 **- 7	1.00	10.00		19.00	28.00	126.0

98	**-	8	1.00	15.00	26.00	31.00	138.0
99	**-	9	1.00	14.00	20.00	29.00	130.0
100	**-	10	1.00	11.00	20.00	26.00	155.0
101	**-	11	1.00	20.00	30.00	36.00	131.0
102	**-	12	1.00	16.00	24.00	32.00	121.0
103	**-	13	1.00	24.00	32.00	43.00	130.0
104	**-	14	1.00	20.00	31.00	35.00	148.0
105	**-	15	1.00	13.00	31.00	34.00	154.0
106	**-	16	1.00	19.00	30.00	37.00	137.0
107	**-	17	1.00	17.00	34.00	38.00	174.0
108	**-	18	1.00	11.00	19.00	26.00	133.0
109	**-	1	1.00	12.00	21.00	29.00	140.0
110	**-	2	1.00	19.00	35.00	44.00	149.0
111	**-	3	1.00	20.00	32.00	37.00	124.0
112	**-	4	1.00	11.00	24.00	32.00	161.0
113	**-	5	1.00	12.00	19.00	27.00	144.0
114	**-	6	1.00	11.00	21.00	32.00	145.0
115	**-	7	1.00	15.00	26.00	35.00	125.0
116	**-	8	1.00	13.00	22.00	26.00	116.0
117	**-	9	1.00	15.00	28.00	36.00	153.0
118	**-	10	1.00	17.00	29.00	35.00	112.0
119	**-	11	1.00	17.00	31.00	37.00	116.0
120	**-	12	1.00	12.00	18.00	28.00	144.0
121	**-	13	1.00	20.00	32.00	34.00	118.0
122	**-	14	1.00	15.00	21.00	28.00	127.0
123	**-	15	1.00	13.00	24.00	30.00	142.0
124	**-	16	1.00	16.00	26.00	35.00	127.0
125	**-	17	1.00	16.00	24.00	35.00	116.0
126	**-	18	1.00	18.00	25.00	33.00	138.0
127	**-	1	1.00	14.00	21.00	27.00	119.0
128	**-	2	1.00	18.00	30.00	36.00	147.0
129	**-	3	1.00	11.00	17.00	26.00	133.0
130	**-	4	1.00	11.00	20.00	29.00	139.0
131	**-	5	1.00	18.00	27.00	36.00	129.0
132	**-	6	1.00	17.00	24.00	29.00	136.0
133	**-	7	1.00	11.00	23.00	31.00	162.0
134	**-	8	1.00	11.00	26.00	38.00	139.0
135	**-	9	1.00	19.00	30.00	38.00	130.0
136	**-	10	1.00	11.00	19.00	24.00	120.0
137	**-	11	1.00	21.00	32.00	45.00	131.0
138	**-	12	1.00	13.00	20.00	28.00	154.0
139	**-	13	1.00	14.00	25.00	33.00	126.0
140	**-	14	1.00	12.00	19.00	27.00	106.0
141	**-	15	1.00	20.00	29.00	36.00	117.0
142	**-	16	1.00	17.00	31.00	35.00	111.0
143	**-	17	1.00	14.00	26.00	33.00	124.0
144	**-	18	1.00	10.00	17.00	26.00	134.0
145	**-	1	1.00	24.00	35.00	39.00	122.0
146	**-	2	1.00	16.00	26.00	31.00	168.0
147	**-	3	1.00	16.00	24.00	30.00	116.0
148	**-	4	1.00	25.00	35.00	41.00	136.0
149	**-	5	1.00	15.00	30.00	39.00	133.0
150	**-	6	1.00	22.00	34.00	43.00	128.0

DATE	TIME	WIND	TEMP	WIND	TEMP	WIND	TEMP
151	**	7	1.00	19.00	30.00	38.00	139.0
152	**	8	1.00	15.00	21.00	30.00	129.0
153	**	9	1.00	20.00	28.00	32.00	139.0
154	**	10	1.00	12.00	25.00	28.00	128.0
155	**	11	1.00	14.00	29.00	38.00	131.0
156	**	12	1.00	13.00	18.00	25.00	129.0
157	**	13	1.00	12.00	21.00	28.00	107.0
158	**	14	1.00	13.00	20.00	25.00	144.0
159	**	15	1.00	14.00	26.00	36.00	171.0

FedEx Express US Airbill

Tracking Number: 8532 3260 4903

1 From _____
Date _____

Sender's Name _____
Company _____
Address _____
City _____ **State** _____ **ZIP** _____

2 Your Internal Billing Reference

3 To _____
Recipient's Name _____
Company _____
Address _____
City _____ **State** _____ **ZIP** _____

Recipient's Address _____
 We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address _____
 To request a package be held at a specific FedEx location, print FedEx address here.

City _____ **State** _____ **ZIP** _____



4a Express Package Service
 Next Business Morning
 Next Business Morning
 Next Business Morning
 Next Business Morning

4b Express Freight Service
 Next Business Morning
 Next Business Morning
 Next Business Morning
 Next Business Morning

5 Packaging
 FedEx Envelope
 FedEx Box
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Saturday at FedEx Location
 HOLD Saturday at FedEx Location
 HOLD Saturday at FedEx Location
 HOLD Saturday at FedEx Location

7 Payment Bill To:
 Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check

8 Sign to Authorize Delivery Without a Signature
 By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.
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