



**\*\*\*\*Facsimile Request\*\*\*\***  
**Date: March 26, 2010**

**Message For: Rosemary Jones**

**Of: NRC Region III**

**Facsimile Number: 630-829-9782**

**Number of Pages (including this form): 9**

**From**  
**James R. Mullauer, M.H.S.**  
**Health Physicist**  
**United States Nuclear Regulatory Commission**  
**2443 Warrenville Road**  
**Lisle, IL 60532-4351**

**Current Telephone Number: (623) 214-5213    Fax Number: (630) 829-9873**

**E-mail: [jrm1@nrc.gov](mailto:jrm1@nrc.gov) or [james.mullauer@nrc.gov](mailto:james.mullauer@nrc.gov)**

**Rosemary, please control this in and have Patty assign to me since I know what is going on with this request.**

**Thanks, Jim**

A handwritten signature in cursive script, appearing to read "Jim".

*Faxed to 623-214-5213  
on 3/11/2010*

7910 W Jefferson Blvd., Suite 110  
Fort Wayne, IN 46804  
(260)436-4116 Fax (260) 918-2722  
www.roafw.com



# Fax

To: *James Mullauer* From: *John F. Agnew*  
Fax: \_\_\_\_\_ Pages: *16*  
Phone: \_\_\_\_\_ Date: *3-11-10*  
Re: *License Amendment* cc: \_\_\_\_\_

Urgent  For Review  Please Comment  Please Reply  Please Recycle

*As you know we wish to make Carmen Kmety-Stevanson, Ph.D,  
our Radiation Safety Officer. Enclosed is her ABR Certificate  
and Form 313A. And the letter of her appointment by ROA.*

*We wish to add Thomas Chung MD as an A.U. A partial  
copy of the Naval Radioactive Material License enclosed, with  
his ABR certificate.*

*We wish to delete Anthony Fernando MS as AMP.  
" " " " ~~For~~ Tony Lee MD as A.U.*

*Thanks very much.*

*John Agnew*

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To:  
Mr. Jim Mullauer  
Nuclear regulatory Commission -- Region III

March 25, 2010

From:  
Radiation Oncology Associates License No. 13-32551-01  
7910 W. Jefferson Blvd, suite 110  
Fort Wayne, In 46804 phone 260-436-4116

Re: Training of Thomas Chung, MD for approval as AU.  
On March 19, 2010, Dr Chung participated in the Safety training on our GammaMed 232 presented to us by the manufacturer's serviceman. This included Emergency response actions.

On March 25, 2010, Carmen Kmety-Stevenson, PhD and I gave Dr, Chung training on our clinical use of the GammaMed. The training included hands-on experience with all the applicators being used, the paperwork, including treatment plans, written directive forms, GYN cylinder reference tables, and the checks to be done prior to each procedure.

For his first procedures, one of the other AUs will proctor Dr. Chung. In addition he will have the benefit of the experience of the AMPs and other staff members.

  
John F. Agnew, Ph.D

  
Carmen R. Kmety-Stevenson, Ph.D.

OPNAVINST 6470.3

### NAVAL RADIOACTIVE MATERIALS PERMIT

*Pursuant to the authority stated in OPNAVINST 6470.3, Naval Radiation Safety Committee, and in reliance on statements made by the applicant, permission is hereby granted for the acquisition, receipt, possession, use, storage and disposal of radioactive materials listed below subject to the conditions listed in this permit.*

<b>1 - COMMAND</b>  COMMANDER NAVAL MEDICAL CENTER 34800 BOB WILSON DRIVE SAN DIEGO, CA 92134-5000	In accordance with the letter dated 26 January 2009
	<b>2 - PERMIT NO.</b> 04-00259-11NP  is amended in its entirety to read as follows:
	<b>3 - AMENDMENT NO.</b> 32
	<b>4 - DOCKET NO.</b>
	<b>5 - EXPIRATION DATE</b> 31 December 2013

<b>6 - RADIOACTIVE MATERIAL</b>	<b>7 - CHEMICAL/ PHYSICAL FORM</b>	<b>8 - MAXIMUM QUANTITY AUTHORIZED</b>
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Any byproduct material permitted by 10 CFR 35.65	C. Any	C. No single source to exceed the maximum activity specified in 10 CFR 35.65
D. Any byproduct material permitted by 10 CFR 35.300	D. Any	D. As needed, not to exceed 1.5 Ci (55.5 giga-becquerels) of I-131

**NAVAL RADIATION SAFETY COMMITTEE**

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E. Cesium-137 as permitted by 10 CFR 35.400	E. Sealed Sources (AEA Technology, CDC.T1 (J Series Tube Source))	E. 0.6 Curies (22.2 giga- becquerels), not to exceed 80 millicuries (2960 megabecquerels) per source
F. Cesium-137 as permitted by 10 CFR 35.400	F. Sealed Sources (AEA Technology QSA, Series 6500, (Formerly 6D6C))	F. 1.5 Curies as (55.5 giga- becquerels), not to exceed 0.5 Curies (18.5 giga- becquerels) per source
G. Iridium-192 as permitted by 10 CFR 35.400	G. Sealed Sources (Best Medical Inter- national, Inc., 81-01)	G. 0.5 Curies (18.5 giga- becquerels), not to exceed 100 millicurie (3700 mega- becquerels) per source
H. Cesium-137	H. Sealed Source (Isotope Products Laboratories, HEG-137, (Formerly 225))	H. 30 millicuries per source (1110 megabecquerels), 120 millicuries (4440 mega- becquerels) total
I. Any byproduct material permitted by 10 CFR 31.11	I. Prepackaged Kits	I. 5 millicuries (185 mega- becquerels) total
J. Cesium-137	J. Sealed Source (J.L. Shepard and Associates, Shepard 6810 or ORNL A-0096)	J. One source not to exceed 3300 Curies (122.1 terabecquerels)

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K. Gadolinium-153	K. Sealed Source (North American Scientific, MED3601-MED3620)	K. 2 Curies (74 gigabecquerels), not to exceed 600 millicuries (22.2 giga- becquerels) per source
L. Gadolinium-153	L. Sealed Source (Isotope Products Laboratories, NES8412)	L. 2 Curies (74 gigabecquerels), not to exceed 600 millicuries (22.2 giga- becquerels) per source
M. Strontium-90	M. Sealed Source (Nuclear Enterprises 2503)	M. One source 10 millicuries (370 megabecquerels)
N. Germanium-68	N. Sealed Source (CTI Services Inc., LS-POINT)	N. 2.2 millicuries (81.4 mega- becquerels), not to exceed 30 millicuries (1110 mega- becquerels) per source
O. Depleted Uranium	O. Metal	O. 33 pounds (15 kilograms), 133 pounds (60 kilograms) total
P. Cobalt-57	P. Sealed Sources (North American Scientific, MED3700- MED3749)	P. 50 millicuries (1850 mega- becquerels), not to exceed 25 millicuries (925 megabecquerels) per source

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|---|---|---|
| Q. Cesium-137                                       | Q. Sealed Source<br>(ADAC UGM Medical<br>Systems, HEG-137)  | Q. 40 millicuries<br>(1480 mega-<br>becquerels), not<br>to exceed 20<br>millicuries (740<br>megabecquerels)<br>per source               |
| R. Sodium-22  | R. Sealed Source<br>(Isotope Products,<br>GF-22 Type D Series<br>(Formerly GF- XXXD)  | R. 0.2 milli-<br>curies (7.4 mega-<br>becquerels), not<br>to exceed 0.1<br>millicuries (3.7<br>megabecquerels<br>per source             |
| S. Iridium-192 as<br>permitted by<br>10 CFR 35.600. | S. Sealed Sources<br>(Nucletron Corp.,<br>Model 105.002;<br>formerly DRN 07736<br>manufactured by<br>by Mallinckrodt<br>Medical B.V. or<br>QSA Global {formerly<br>AEA Technologies,<br>Inc.}). | S. Two Sources,<br>21 Curies<br>(777<br>gigabecquerels)<br>total, not to<br>exceed 13 Curies<br>(481<br>gigabecquerels),<br>per source. |

9. Authorized Use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100 for which a written directive is not required.
- B. Any imaging and localization study permitted by 10 CFR 35.200 for which a written directive is not required.
- C. Any sources of byproduct material to be used for calibration, transmission and reference sources as described in 10 CFR 35.65.
- D. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300 for which a written directive is required.
- E-G. Any manual brachytherapy procedure permitted by 10 CFR 35.400.

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- H. In storage- awaiting disposal.
- I. In vitro studies.
- J. Irradiator for irradiation of blood products.
- K-L. In storage- awaiting disposal.
- M. Used for constancy checks on ionization chambers used in Radiation Oncology.
- N. Used for transmission scans in ADAC Vertex cameras.
- O. In storage- awaiting disposal.
- P. Use as flood sources (calibration and reference sources).
- Q. For use in ADAC Laboratories Attenuation Correction Devices for PET scanner, Model Allegro (CA0102D104S).
- R. Used for an external calibration source for the ADAC Allegro PET Scanner.
- S. One source for medical use described in 10 CFR 35.600, to be used in a Nucletron Corp. Model microSelectron 106.990 High Dose Rate (HDR) remote afterloader unit for the treatment of humans. The source activity may not exceed 12 Curies (444 gigabecquerels) at the time of installation. The second source is authorized in its shipping container as necessary for replacement of the source in the HDR unit.

**PERMIT CONDITIONS**

10. Radioactive material authorized by this Permit shall be stored and used only at Naval Medical Center, San Diego, CA buildings 1 and 26, except that permitted material identified in sub-item 6.S. shall be used only in a linear accelerator vault, Room GH-38F3 in Building 1 and will be stored in the brachytherapy storage room, GH-37F1.



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- 11. The Radiation Safety Officer for the use of radioactive material authorized by this Permit is Mr. Scott W. Frampton.
- 12. Radioactive material listed in Item 6 is only authorized for use by, or under the supervision of:

A. Individuals permitted to work as an authorized user, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.

B. The following individuals are authorized users for medical use:

	<u>Material and Use</u>
James T. Burrato (LCDR, MC, USNR)	10 CFR 35.100, 35.200, and 35.300
→ Thomas S. Chung, M.D. (LCDR, MC, USN)	10 CFR 35.300, 35.400, and 35.600 only Iridium-192 for use in a High Dose Rate (HDR) remote afterloader unit.
Warren S. Inouye, M.D. (CDR, MC, USN)	10 CFR 35.300 and 35.400
Brian D. Lawenda, M.D. (LCDR, MC, USN)	10 CFR 35.400; and 35.600 only Iridium-192 for use in a High Dose Rate (HDR) remote afterloader unit.
Eugene D. Silverman, M.D.	10 CFR 35.100, 35.200, and 10 CFR 35.300

C. The following individual is an authorized medical physicist:

Material and Use