**tijco** Healthcare

### Mallinckrodt

Mallinckrodt Inc. 676 McDonnell Boulevard P.O. Box 5840 St. Louis, MC 63134

Tele: 314 654-2000 www.mallinckrodt.com

November 20, 2006

Br.J

U.S. Nuclear Regulatory Commission Region I Nuclear Materials Safety Branch 475 Allendale Road King of Prussia, PA 19406-1415

RE: Material License #24-04206-13MD

03032954

### Please Expedite Licensing Action

Dear License Reviewer:

Please amend the above reference material license to reflect the following modification:

1. Amend to name Eric Asare R.Ph. as an Authorized Nuclear Pharmacist. Mr. Asare has completed the necessary didactic and practical experience training in accordance with 10 CFR 35.980 (refer to attached documentation). In addition, the Pennsylvania Board of Pharmacy recognizes Mr. Asare as a Registered Pharmacist.

An expedited review of this request would be appreciated due to extended staffing shortages in this pharmacy. All other items relating to our radioactive material license and established Radiation Safety Program remain unchanged at this time.

Please contact April Chance, Manager, Radiological Affairs at (314) 654-7960 for further information regarding this matter. Your prompt review and approval of this license modification is greatly appreciated.

Sincerely,

Jay M. Yoder

Director, Radiation, Environment, Safety & Health - Mallinckrodt Inc.

Attachment

cc: A. Gemerd, Radiation Safety Officer (Folcroft, PA)

A. Chance, Manager, Radiological Affairs (Hazelwood, MO)

# ATTACHMENT ERIC ASARE DOCUMENTATION



### Mallinckrodt

Mallinckrodt Inc. 19 Independence Court Foleroft, PA 19022

Tele: 610 532-2248 Fax: 610 532-8571 Toll Free: 800 445-1319 www.mallinckrodt.com

November 21, 2006

Kay M. Yoder. Director, Radiation, Environment, Safety & Health Regulatory Compliance Department Mallinckrodt Inc. 675 McDonnell Boulevard P.O. Box 5840 St. Louis, MO 63134

RE: Proposed Authorized Nuclear Pharmacist - (Eric Asare, R.Ph.)

Muchael Daie

Dear Kay:

Attached, please find documentation outlining the nuclear pharmacy training and experience received by Eric Asare, R.Ph. Mr. Asare received his "on the job" nuclear pharmacy training and practical experience under my supervision during the period of April 17, 2006 to November 16, 2006.

Based on Mr. Asare's training and experience, as outlined in the attached documents, I confirm that he has achieved a level of competency sufficient to independently operate a nuclear pharmacy. I recommend elevating Eric Asare, R.Ph. to the status of Authorized Nuclear Pharmacist in accordance with 10 CFR 32.72.

Sincerely

Michael Haigh, R.Ph. Staff Pharmacist License #RP031775L

Attachments

## ATTACHMENT I DIDACTIC TRAINING DOCUMENTATION

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Revised 12/05

#### TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

Student: ERIC ASARE

					Break	down o	Course	Conten	I in Cloc	k Hours		
Location of Training	Date(s) of Attendance	Course Title if Applicable	Total Clock Hours of Course	Radia Physic Instruition		Radia Protec			ning to activity	Radia Biolog		Radiopham- acculical Chemistry
	1		1	A	B	A	В	Ā	В	Α	В	Á
Pudue Universily	Fail Semester 2001 - 2002	NUPH 412 & 413: Diagnostic Imaging I and II	32	15		6				7		4
	Spring Semester 2001 - 2002	NUPH 414: Nuclear Pharmacy Laboratory	60	35		6		6		3		10
	Summer, 2002 Syncor (Cardinal)	NUPH 416: Practicum In Nuclear Pharmacy (Not For Credit)	45		15		22		8			
	Fall Semester 2002 - 2003	NUPH 530: Applied Nuclear Pharmacy	77	23		12		10		10		22
Calumn "A Course.	" refers to a Lecture / t	aboratory	214	73	15	24	22	16	8	20	0	36
Colurnn "B Experience	n refers to a Supervise e.	d Laboratory	TOTAL		RR		46		24		20	36

Signature: # WWW Volley William Milliams
Purdue University Division of Nuclear Pharmacy
About Purgesson of Nuclear Pharmacy
Nuclear Pharmacy

## ATTACHMENT II PRACTICAL TRAINING DOCUMENTATION

### Hours of Radioactive Material Experience

Proposed Authorized Nuclear Pharmacist: Eric Asare, R.Ph.

Dates of Use	Location	Isotope(s) Used	Max activity used at any one time	Purpose(s) of Use <sup>a</sup>	Total Hours Worked
		Mo-99	19 Ci	1,2,3,4,5,6	
	İ	Tc-99m	16 Ci	1,2,3,4,5,6	
		I-131	210 mCi	3,4,5,6	
	Mallinckrodt Inc. 19 Independence Ct. Folcroft, PA 19032	Xe-133	3.4 Ci	1,3,4,5	
1		I-123	4 mCi	1,3,4,5	Total hours
		Ga-67	10 mCi	1,3,4,5	worked from
0.4117106 11116106		TI-201	220 mCi	1,3,4,5	4/17/06 to
04/17/06 – 11/16/06		[n-11]	3 mCi	1,3,4,5	11/16/06
		P-32	15 mCi	1,2,3,4,5	=
		Sr-89	4 mCi	1,2,3,4,5	1096
		Sm-153	80 mCi	1,2,3,4,5	
		Co-57	0.997 uCi	2	
		Cs-137	162 uCi	2	
		Ba-133		2	
				Total Hours	1096

Eric Asare, R.Ph.

Michael Haigh, R.Ph. Staff Pharmacist

License #RP031775L

<sup>&</sup>quot;Purpose of Use" should be designated as one or more of the following:

<sup>1.</sup> Ordering, shipping, and receiving radioactive materials and performing related radiation surveys

<sup>2.</sup> Calibrating, using, and performing checks for proper operation of dose calibrators, scintillation detectors, survey meters, and, if applicable, instruments used to measure alpha- or beta-emitting radionuclides

<sup>3.</sup> Calculating, assaying, and safely preparing dosages for patients or human research subjects

<sup>4.</sup> Use of administrative controls to avoid mistakes in the administration of byproduct material

<sup>5.</sup> Use of procedures to prevent or minimize contamination and/or use of proper decontamination procedures.

<sup>6.</sup> Eluting Tc-99m from generator systems, assaying eluate for Tc-99m and Mo-99 and processing the eluate with reagent kits to prepare radioactive drugs

ATTACHMENT III
NUCLEAR PHARMACIST LICENSE

Page 1 of 1



### Pennsylvania Department of State Bureau of Professional and Occupational Affairs



License Verification

#### Person Information

Name: ERIC BAFFOUR ASARE

Address(city, state zipcode)

### **Employer Information**

No Information Found

#### License Information

Type: Pharmacist

Secondary Type: N/A

Number: RP441484

Profession: Pharmacy

Status: Active

Obtained By: Reciprocity

Issue Date: 11/8/2006

Expires: 9/30/2008.

Last Renewed: N/A

Standing: This Ilcense is in good standing.

Disciplinary action history: No disciplinary actions were found for this license.

Return to Licensee Search | Back to Results

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

This is to acknowledge	he receipt of your letter/application dated	
11/1/1/1/1	•	
1114014000	and to inform you that the initial processing which	
includes an administrati	ve review has been performed.	
- Amendme	Jt 24-04206-13MD	i
	nistrative omissions. Your application was assigned to a	
	Please note that the technical review may identify additional	
omissions or require	additional information.	
	s office within 30 days of your receipt of this card	
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Please provide to thi  A copy of your action ha	s office within 30 days of your receipt of this card  as been forwarded to our License Fee & Accounts Receivable	
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A copy of your action has Branch, who will contact Your action has been as When calling to inquire	as been forwarded to our License Fee & Accounts Receivable tyou separately if there is a fee issue involved.  ssigned Mail Control Number 39712 about this action, please refer to this control number.	