



3960 Patient Care Drive • Suite 105 • Lansing, Michigan 48911
Phone 517-887-3131 • Fax 517-887-3132 • www.HotShotsNM.com

April 27, 2021

Materials Licensing Branch
U. S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Subject: Change in Radiation Safety Officer (RSO) for this License

Radioactive Material License Number - 21-26597-01MD

To Whom It May Concern:

Please amend Radioactive Materials License 21-26597-01MD:

- Condition 11 to add Aaron A. Barnes as the Radiation Safety Officer effective May 1, 2021. Aaron A. Barnes has been an Authorized Nuclear Pharmacist on this same license since Amendment No. 15 dated September 28, 2012. As an Authorized Nuclear Pharmacist, he has been actively involved in the pharmacy's radiation safety program. His current Michigan pharmacist license verification is included.

Aaron A. Barnes will also be the new NRC contact person effective May 1, 2021. His email is [A. Barnes@HotShotsNM.com](mailto:A.Barnes@HotShotsNM.com).

Please contact him at (517) 887-3131 or A.Barnes@HotShotsNM.com if you require hard copies to be sent with original signatures, if you have any other questions or require further information.

Your prompt attention to this matter is greatly appreciated. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "David R. Allen".

David R. Allen, Pharm.D., RSO
D.Allen@HotShotsNM.com

Enclosures (2)

Davenport Cedar Rapids Peoria Rockford Bismarck Lansing Marquette

RECEIVED APR 29 2021



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April 14, 2021

To: Aaron A Barnes, Pharm.D.
Radiation Safety Officer

From: David R. Allen, Pharm D.
Pharmacy Manager

Re: Delegation of Authority

You, Aaron A. Barnes, have been appointed radiation safety officer of CPI Pharmacy Services Holding, LLC d/b/a Hot Shots Nuclear Medicine Lansing, MI (NRC License #21-26597-01MD), and are responsible for ensuring the safe and secure use of radiation. You are responsible for managing the Radiation Protection Program; identifying radiation protection problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions; stopping unsafe activities; and ensuring compliance with regulations. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations, when justified, to maintain radiation safety. You are required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, you are free to raise issues with the U.S. Nuclear Regulatory Commission at any time. It is estimated that you will spend approximately 8 hours per week conducting radiation protection activities.

Sincerely,

David R. Allen, Pharm.D.
Pharmacy Manager- Lansing.

4/16/21
Date

I accept the above responsibilities,

Aaron A. Barnes, Pharm.D.
Radiation Safety Officer
Pharmacist - Lansing

4/16/2021
Date

3/10/2021

Accela Citizen Access

Home Licenses Enforcement

Advanced Search

Licensed Professional Information: Pharmacist 5302038770

Licensee Detail

License Type:

Pharmacist

License Number:

5302038770

Name:

Aaron Alexander Barnes

License Issue Date:

08/27/2012

License Expiration Date:

06/29/2021

License Status:


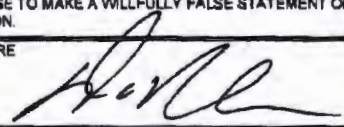
Active

County:

Eaton

CONTROLLED SUBSTANCE LIST

City: Dimondale**State or Province:** MI**ZIP or Postal Code:** 48821**CS Record Number:** 5315097018**CS Status:** Active**CS Expiration Date:** 06/29/2021

NRC FORM 313 (01-2020) 10 CFR 30, 32, 33, 34, 35, 36, 37, 39, and 40	 U.S. NUCLEAR REGULATORY COMMISSION APPLICATION FOR MATERIALS LICENSE	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 01/31/2023 Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to InfoCollect.Resource@nrc.gov , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.				
INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1850 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: http://www.nrc.gov/reading-mrdocs/collections/nureg/series1850/. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.						
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: MATERIALS SAFETY LICENSING BRANCH DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001 ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS: IF YOU ARE LOCATED IN: ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO: LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713	IF YOU ARE LOCATED IN: ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352 IF YOU ARE LOCATED IN: ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO: NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1800 E. LAMAR BOULEVARD ARLINGTON, TX 76011-4511					
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.						
1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>21-26597-01MD</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____	2. NAME AND MAILING ADDRESS OF APPLICANT (include zip code) CPI Pharmacy Services Holdings LLC d/b/a Hot Shots Nuclear Medicine, 3960 Patient Care Drive, Suite 105, Lansing, MI 48911					
3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED same as #2	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Aaron A. Barnes <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BUSINESS TELEPHONE NUMBER 517-887-3131</td> <td style="width: 50%;">BUSINESS CELLULAR TELEPHONE NUMBER 810-845-1388</td> </tr> <tr> <td colspan="2">BUSINESS E-MAIL ADDRESS A.Barnes@HotShotsNM.com</td> </tr> </table>		BUSINESS TELEPHONE NUMBER 517-887-3131	BUSINESS CELLULAR TELEPHONE NUMBER 810-845-1388	BUSINESS E-MAIL ADDRESS A.Barnes@HotShotsNM.com	
BUSINESS TELEPHONE NUMBER 517-887-3131	BUSINESS CELLULAR TELEPHONE NUMBER 810-845-1388					
BUSINESS E-MAIL ADDRESS A.Barnes@HotShotsNM.com						
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.						
5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.					
8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.	7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.					
10. RADIATION SAFETY PROGRAM.	9. FACILITIES AND EQUIPMENT.					
12. LICENSE FEES (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31) *Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">FEE CATEGORY</td> <td style="width: 30%;"></td> <td style="width: 30%;">AMOUNT ENCLOSED \$</td> <td style="width: 10%;"></td> </tr> </table>		FEE CATEGORY		AMOUNT ENCLOSED \$	
FEE CATEGORY		AMOUNT ENCLOSED \$				
PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1990 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 831: https://www.nrc.gov/reading-mrdocs/collections/forms/nrc831info.html.						
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.						
CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE David R. Allen Pharm.D. R.S.O.	SIGNATURE 	DATE 4/16/21				

NRC FORM 313A (RSO)

(01-2020)



U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 01/31/2023

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION
[10 CFR 35.57, 35.50]**

Name of Individual

☐ RSO☐ ARSO

Aaron A. Barnes

Requested Authorization(s) The license authorizes the following medical uses (check all that apply):

- ☒ 35.100 ☒ 35.200 ☒ 35.300 ☐ 35.400 ☒ 35.500 ☐ 35.600 (remote afterloader)
☐ 35.600 (teletherapy) ☐ 35.600 (gamma stereotactic radiosurgery) ☐ 35.1000 (_____)

**PART I – TRAINING AND EXPERIENCE
(Select one of the five methods below)**

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

☐ **1. Board Certification**

- a. Provide a copy of the board certification.
- b. If the board certification process has been recognized by the Commission or an Agreement State under 10 CFR 35.50;
 - (i) Go to the table in 5c and describe training provider and dates of training for each type of use for which authorization is sought.
 - (ii) Stop here
- c. If the board certification was issued on or before October 24, 2005 and is listed in 10 CFR 35.57 (a)(2);
 - (i) Provide documentation demonstrating that the individual was using the requested materials and uses on or before October 24, 2005;
 - (ii) Stop here

OR

☐ **2. Current Radiation Safety Officer (RSO) or Associate Radiation Safety Officer (ARSO) Seeking Authorization to Be Recognized as a RSO or ARSO for the Additional Medical Uses Checked Above**

- a. Use the table in section 5.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO or ARSO is sought.
- b. If board certified, provide a copy of the certificate and stop here. If not board certified, skip to and complete Part II Preceptor Attestation.

OR

☒ **3. Authorized User (AU), Authorized Medical Physicist (AMP), or Authorized Nuclear Pharmacist (ANP) Identified on a license or permit in accordance with 10 CFR 35.50 (c)(2)**

- a. Provide license number.
- b. Use the table in section 5.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. If board certified, provide a copy of the certificate and stop here. If not board certified, skip to and complete Part II Preceptor Attestation.

OR

NRC FORM 313A (RSO)
(01-2020)

U. S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.57, 35.50] (continued)**☐ **4. Individuals applying simultaneously to be the RSO and AU on a new license**

- ☐ a. Documentation of training and experience to be a new AU is attached
- ☐ b. The new license application is attached.
- c. Stop here.

OR☐ **5. Structured Educational Program for Proposed RSO or ARSO****a. Classroom and Laboratory Training**

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation biology			
Radiation dosimetry			
Total Hours of Training: <input type="text"/>			

NRC FORM 313A (RSO)
(01-2020)

U. S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.57, 35.50] (continued)**

5. Structured Educational Program for Proposed RSO or ARSO (continued)**b. Supervised Radiation Safety Experience**

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+		

+ Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

NRC FORM 313A (RSO)
(01-2020)

U. S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.57, 35.50] (continued)**

5. Structured Educational Program for Proposed RSO or ARSO (continued)**b. Supervised Radiation Safety Experience (continued)**

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual	License/Permit Number listing supervising individual as a Radiation Safety Officer or Associate Radiation Safety Officer
The supervising individual is authorized as the _____ for the following medical uses:	
<input type="checkbox"/> Radiation Safety Officer or the <input type="checkbox"/> Associate Radiation Safety Officer	
<input type="checkbox"/> 35.100 <input type="checkbox"/> 35.200 <input type="checkbox"/> 35.300 <input type="checkbox"/> 35.400 <input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input type="checkbox"/> 35.1000 (_____)	

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license for the RSO or types of use for which the ARSO will be listed on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	David R. Allen Pharm.D. RSO	January 2020-April 2021
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	David R. Allen Pharm.D. RSO	January 2020-April 2021
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):		

NRC FORM 313A (RSO)
(01-2020)

U. S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.57, 35.50] (continued)**

5. Structured Educational Program for Proposed RSO or ARSO (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

Supervising Individual if training was provided by supervising RSO, ARSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)

David R. Allen Pharm.D. RSO

License/Permit Number listing supervising individual

21-26597-01MD

License/Permit lists supervising individual as:

- ☒ Radiation Safety Officer ☐ Associate Radiation Safety Officer
☐ Authorized User ☐ Authorized Nuclear Pharmacist ☐ Authorized Medical Physicist

Authorized as RSO, ARSO, AU, ANP, or AMP for the following medical uses:

- ☒ 35.100 ☒ 35.200 ☒ 35.300 ☐ 35.400
☒ 35.500 ☐ 35.600 (remote afterloader) ☐ 35.600 (teletherapy)
☐ 35.600 (gamma stereotactic radiosurgery) ☐ 35.1000 (_____)

d. Skip to and complete Part II Preceptor Attestation.

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section**Structured Educational Program for Proposed RSO or ARSO**

☒ I attest that Aaron A. Barnes Pharm.D. _____ has satisfactorily completed
Name of Proposed RSO/ARSO

a structural educational program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

AND**Second Section**

☒ I attest that Aaron A. Barnes Pharm.D. _____ has training in
Name of Proposed RSO/ARSO

radiation safety, regulatory issues, and emergency procedures for the following types of use:

Check all that apply:

- ☒ 35.100 ☒ 35.200
☒ 35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required
☒ 35.300 oral administration of greater than 33 millicuries of sodium iodide I-131
☒ 35.300 Parenteral administration of any radioactive drug that contains a radionuclide that is primarily used for its electron emission, beta radiation characteristics, alpha radiation characteristics, or photon energy of less than 150 keV, for which a written directive is required

NRC FORM 313A (R&O)
(01-2020)

U. S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER OR
ASSOCIATE RADIATION SAFETY OFFICER
TRAINING, EXPERIENCE AND PRECEPTOR ATTESTATION [10 CFR 35.57, 35.50] (continued)****PART II – PRECEPTOR ATTESTATION (continued)**Check all *that apply*:

- ☐ 35.400
- ☒ 35.500
- ☐ 35.600 remote afterloader units
- ☐ 35.600 teletherapy units
- ☐ 35.600 gamma stereotactic radiosurgery units
- ☐ 35.1000 emerging technologies, including:

Third Section**AND**☒ I attest that

Aaron A Barnes

Name of Proposed Radiation Safety Officer or Associate Radiation Safety Officer

is able to independently fulfill the radiation safety-related duties as:

☒ A Radiation Safety Officer for a medical use licensee.**OR**☐ An Associate Radiation Safety Officer for a medical use licensee.**Fourth Section****Complete the following for Preceptor Attestation and signature**☒ I am the Radiation Safety Officer for☐ I am the Associate Radiation Safety Officer for

Name of Facility: CPI Pharmacy Services D/B/A Hot Shots Nuclear Medicine

License/Permit Number: 21-26597-01MD

Name of Preceptor (Typed or printed)

David R. Allen

Telephone Number

(517) 887-3131

Date

04/27/2021

Signature

