Cardinal Health Nuclear & Precision Health Solutions Quality & Regulatory 7000 Cardinal Place Dublin, OH 43017 tel 614.757.4120 fax 614.652.4598



November 2, 2022

Bryan Parker U.S. Nuclear Regulatory Commission Region III – Division of Nuclear Materials Safety 2443 Warrenville Rd, Suite 210 Lisle, IL 60532-4352

Re: Additional Information for Amendment Request for Radioactive Materials License 34-32780-04MD, CN632058, Cardinal Health Nuclear & Precision Health Solutions, Indianapolis, IN.

### Licensing:

To support the amendment request for the above referenced radioactive materials license, Cardinal Health 414, LLC (Nuclear & Precision Health Solutions and Indianapolis Manufacturing Site [IMS], hereafter Cardinal Health) submits this letter with additional information.

Please see attached for additional training documentation for Benjamin Ellert, R.Ph. to support the request to add him as an Authorized User on this license.

If you have any questions regarding this request, please contact me at 614.553.4555.

Sincerely,

Evan T. Western, CHP Manager, Health Physics

Nuclear & Precision Health Solutions

Encl: Attachment A – Benjamin Ellert R.Ph. Training Documentation

cc: License File, Loc. 5889 (3)

Ian Schaller, MRSO, Loc. 5889

## **ATTACHMENT A**

# Benjamin Ellert, R.Ph. Training Documentation

### **Qualification for Authorized User Training**

TRAINEE: Benjamin Ellert

Training Date(s):

This document signifies the listed trainee has been trained on the following:

Observation performed under supervision of site AUs and Production SMEs
Observation performed under supervision of site AUs and Production SMEs

1, Jesse Fisher Jesse Fisher	, (trainer), certify that
Benjamin REllent session. The trainee was afforded time for a question comprehension.	, (trainee), participated in the above training and answer session to ensure knowledge
(Trainer signature)	(Date)
(Trainee signature)	02 NOV ZOZZ (Date)

### RADIOISOTOPE HANDLING EXPERIENCE

Name: Benjamin Ellert

Date: OZ No V ZOZZ

Document the actual use/handling of radioactive material under the supervision of an Authorized

Nuclear Pharmacist.

	ISOTOPE	SINGLE HIGHEST mCi ACTIVITY HANDLED	USE See key below: 1,2,3,4,5,6,7,8	EXPERIENCE Actual clock hours (Include date range of experience)	WHERE EXPERIENCE GAINED
	Ba-223	150	1,2,3,4,5,6	10,000 15/04/2015-	Cardinal Harth
	Ac-227	135	5,6	1,000 11/04/2022-	Cardinal Itealth
	Th. 227	3	1,2,5,6	15000 1/04/2022-	Cardinal Health
				62/11/2022	
	No 99/TC99m	19,000	1,2,3,4,5,6,8		Gardinal Italth Amerikam / GE
	I-131	5,000	1,2,3,4,5,6	5,000 01/04/2022	9
				11/04/2022	Cardinal Health Amersham 16E
1					
1		1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5			
1					

Key for "Use": the number, or numbers, entered under "Use" should correspond to the handling experience for each isotope.

- 1. Ordering, shipping, receiving radioactive materials and performing related radiation surveys
- Calibrating, using and performing checks for proper operation of dose calibrators, scintillation detectors, survey meters, and, if appropriate, instruments used to measure alpha- or beta-emitting radionuclides
- Calculating, assaying and safely preparing dosages for manufactured vials for patients or human research subjects
- Using appropriate internal controls to avoid mistakes in the labeling and/or administration of by product material
- 5. Using procedures to prevent or minimize contamination and using proper decontamination procedures
- Learning emergency procedures to handle and contain spilled materials safely, including related decontamination procedures, surveys, and wipe tests
- 7. Eluting Ra-223 from generator systems and reconstitution of Actinium generator system
- 8. Quality Control testing of in process samples or finished product vials

### **Martha Pavon**

From: Western, Evan <evan.western@cardinalhealth.com>

**Sent:** Wednesday, November 2, 2022 2:17 PM

**To:** Bryan Parker

**Cc:** Sullivan, Glenn; Schaller, Ian

**Subject:** [External\_Sender] RE: Need info for 34-32780-04MD (CN632058)

**Attachments:** 221102 Ellert Additional Training.pdf

Hi Bryan,

Please see the additional training documentation for Ben Ellert RPh as you requested. Please let me know if you need anything else!

Thanks, Evan



Evan T. Western, CHP

Manager, Health Physics 7000 Cardinal Place, SC6 Dublin, OH 43017 614.553.4555 tel / 614.553.9763 fax

Learner | Analytical | Woo | Individualization | Input

I am Essential to care

From: Bryan Parker < Bryan.Parker@nrc.gov>
Sent: Wednesday, November 2, 2022 8:30 AM

**To:** Western, Evan <evan.western@cardinalhealth.com> **Cc:** Sullivan, Glenn <glenn.sullivan@cardinalhealth.com> **Subject:** Need info for 34-32780-04MD (CN632058)

**External Email** – Please use caution before opening attachments or clicking links

Hey Evan & Glenn,

I trying to finish up Control No. 632058 – amendment request for the Ra-223 manufacturing license to add Ac-225 and the Th-227 production area. But I have a question about one of the AUs you requested also. I know Benjamin Ellert is listed on the other Ra license, but I not seeing "equivalent" training for him that is similar to the other proposed AUs. I know Mr. Ellert has had some Ra training, but is it equivalent to the -04MD license training under one of the listed AUs?

I need to complete this by tomorrow, so if it may take a bit to resolve this, I may leave him off as AU, but I can still list him as ARSO as requested.

Please advise.

Thanks.





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### **Martha Pavon**

From: Bryan Parker

**Sent:** Wednesday, November 2, 2022 2:30 PM

**To:** Sandy Pavon; Martha Pavon **Subject:** Please add to ADAMS

**Attachments:** [External\_Sender] RE: Need info for 34-32780-04MD (CN632058); 632058 AI 665.pdf

Hey Sandy and Martha,

Please add the attached Additional Information to CN632058. A 665 is also attached. I need it to complete an action asap.

Please let me know if you have any questions.

Thanks.

Bryan