

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM
QUESTIONNAIRE

Reporting Period: March 30, 2019 - March 1, 2024

Note: If there has been no change in the response to a specific question since the last IMPEP questionnaire, the State or Region may copy the previous answer, if appropriate.

A. GENERAL

1. Please prepare a summary of the status of the State's or Region's actions taken in response to each of the open recommendations from previous IMPEP reviews.

There were no open recommendations from the previous IMPEP.

B. COMMON PERFORMANCE INDICATORS

I. Technical Staffing and Training

2. Please provide the following organization charts, including names and positions:
 - (a) A chart showing positions from the Governor down to the Radiation Control Program Director;
Attachment 1: Commissioner LaTourrette reports directly to Governor Murphy
 - (b) A chart showing positions of the radiation control program, including management; and
Attachment 2
 - (c) Equivalent charts for sealed source and device evaluation, low-level radioactive waste and uranium recovery programs, if applicable. **N/A**
3. Please provide a staffing plan, or complete a listing using the suggested format below, of the professional (technical) full-time equivalents (FTE) applied to the radioactive materials program by individual. Include the name, position, and, for Agreement States, the fraction of time spent in the following areas: administration, materials licensing & compliance, emergency response, low-level radioactive waste, uranium recovery, other. If these regulatory responsibilities are divided between offices, the table should be consolidated to include all personnel contributing to the radioactive materials program.

¹Estimated burden per response to comply with this voluntary collection request: 53 hours. Forward comments regarding burden estimate to the Records Management Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0183), Office of Management and Budget, Washington, DC 20503. If an information collection does not display a currently valid OMB control number, NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

If consultants were used to carry out the program's radioactive materials responsibilities, include their efforts. The table heading should be:

<u>Name</u>	<u>Position</u>	<u>Area of Effort</u>	<u>FTE%</u>
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See Attachment 3

4. Please provide a listing of all new professional personnel hired into your radioactive materials program since the last review, indicate the date of hire; the degree(s) they received, if applicable; additional training; and years of experience in health physics or other disciplines, as appropriate.

Christopher Giaquinto: January 18, 2020 B.S. Ecology, Evolution and Natural Resources

Claire Drozd: March 15, 2021 B.A. Biology

Daniel Tabor: May 8, 2021 B.S. Biology

KJ Karausky: January 30, 2022 B.S. Biology (Admin position converted to professional position)

Kaitlin Rainey: January 16, 2024, B.S. Biology

5. Please list all professional staff who have not yet met the qualification requirements for a radioactive materials license reviewer or inspector. For each, list the courses or equivalent training/experience they need and a tentative schedule for completion of these requirements.

New Jersey's Agreement State program is currently separated into Medical and Industrial Sections. Staff members are considered fully qualified for either Medical, Industrial, or both. Attachment 4 lists all staff members, their Section affiliation, and their qualification status. Staff members who are fully qualified for Medical begin qualification in Industrial and vice versa, but new staff members working in those sections take precedence over this cross qualification. This means that section members in the Industrial Section would be assigned a higher priority than Medical Section members for Industrial NRC classes such as Safety Aspects of Well Logging, Safety Aspects of Industrial Radiography, and Irradiator Technology. The same would be true for Medical Section staff members. They would be assigned a higher priority for Medical NRC classes. Training journals will be available during IMPEP week which will provide more detailed information.

6. Identify any changes to your qualification and training procedure that occurred during the review period.

Specified a Decommissioning qualification in addition to Industrial and Medical. Training on New SOPs: Job Aid for Performing Wipe Tests, Remote Inspections due to COVID.

7. Please identify the technical staff that left your radioactive materials program during the review period and indicate the date they left.

Nadia Akbar, 2019 (Temporarily transferred at last IMPEP and never came back to the program.)

Cathy Biel March 31, 2020

Ed Truskowski January 31, 2020

8. List any vacant positions in your radioactive materials program, the length of time each position has been vacant, and a brief summary of efforts to fill the vacancy.

There will be a vacancy because we are converting our Administrative Assistant position into a Medical Section professional.

9. For Agreement States, does your program have an oversight board or committee which provides direction to the program and is composed of licensees and/or members of the public? If so, please describe the procedures used to avoid any potential conflict of interest.

In N.J.S.A. 26:2D-9, NJDEP is defined as the department of state government designated throughout the Act as the empowered agency for radiation protection. N.J.S.A. 26:2D-3 creates a Commission on Radiation Protection ("Commission"), within the NJDEP, comprised of members with specified scientific training as well as representatives of the Commissioners of the Departments of Environmental Protection, Health and Senior Services and Labor and Workforce Development. This Commission is organized in accordance with N.J.S.A. 26:2D- 6. Its duties include: promulgating rules "to prohibit and prevent unnecessary radiation;" reviewing policies and programs of the NJDEP "as developed under the authority of this act;" making recommendations to the NJDEP on its policies and programs; and, providing technical advice and assistance to the DEP. N.J.S.A. 26:2D-8.

As a matter of practice, the Commissioner of NJDEP signs the regulations before they are sent for publication in the New Jersey Register. NJDEP staff, which is also staff to the Commission, has input into the content of regulations. New Jersey's statutory requirements to preclude conflicts of interest are found at N.J.S.A. 52:13D-12 et seq., the Conflicts of Interest law (COIL). The members of the Commission are all volunteers without payment, receiving only reimbursement for necessarily incurred expenses. N.J.S.A. 26:2D-5. Therefore, Commission members qualify as special state officers subject to COIL. The Commission members are also subject to the New Jersey Department of Environmental Protection's Ethics Code and the State Ethics Commission (SEC) regulations. Members of the Commission are screened and may not participate in any manner in developing, considering or voting on the matter for which he or she has been recused. The COIL, SEC regulations and the NJDEP code of ethics provide a strict system to eliminate conflicts of interest by Commission members as well as employees of the NJDEP.

II. Status of Materials Inspection Program

10. Please identify individual licensees or categories of licensees the State is inspecting less frequently than called for in NRC's Inspection Manual Chapter (IMC) 2800 and explain the reason for the difference. The list only needs to include the following information: license category or licensee name and license number, your inspection interval, and rationale for the difference.

None

11. Please provide the number of routine inspections of Priority 1, 2, and 3 licensees, as defined in IMC 2800 and the number of initial inspections that were completed during each year of the review period.

	2019	2020	2021	2022	2023	2024	Sum:
Priority 1	6	9	9	9	6	2	41
Priority 2	35	12	41	15	23	4	130
Priority 3	42	44	47	46	58	5	242
Sum:	83	65	97	70	87	11	413

Initial 2019- 7; 2020-13; 2021- 5; 2022- 10; 2023- 15; 2024- 1 (51 Total)

12. Please submit a table, or a computer printout, that identifies inspections of Priority 1, 2, and 3 licensees and initial inspections that were conducted overdue.

**1 Priority 1, and 3 Priority 3 conducted overdue.
5 Initial Priority 3, and 1 Initial Priority 5 conducted overdue.**

At a minimum, the list should include the following information for each inspection that was conducted overdue during the review period:

- (1) Licensee Name
- (2) License Number
- (3) Priority (IMC 2800)
- (4) Last inspection date
- (5) Date Due
- (6) Date Performed
- (7) Amount of Time Overdue
- (8) Date inspection findings issued

Licensee Name	License Number	Priority	Last inspection date	Date Due	Date Performed	Days Elapsed	Inspection findings issued	Cause of Lateness
MANSON CONSTRUCTION CO	732449	3	11/21/2016	8/17/2020	10/27/2020	72 d	10/28/2020	The licensee was not in the state and has not come back into the state since. This was overlooked in 2019 and not noticed until 2020.
ACUREN INSPECTION INC ADBA WIT PIPELINE	578908	1	3/13/2019	6/10/2020	7/30/2020	51 d	7/31/2020	Another out of state license that simply did not have work in the state so we delayed the inspection until they did.

UNIVERSITY RADIOLOGY GROUP PC	330835	3	10/8/2019	10/7/2023	10/8/2023	1 d	12/14/2023	Inspector illness
AJAY AGARWALA MD	438163	3	2/2/2018	2/1/2022	2/22/2022	21 d	3/30/2022	Emailed for announced inspection. Licensee unresponsive. When inspectors arrived, no records were available. Site has been mischaracterized. Should be priority 5.
INITIAL*								
GLOBAL TESTING GROUP LLC	915768	3	N/A	10/26/2021	11/18/2021	23 d	11/19/2021	The RSO was out of the country and not available for inspection until after October 2021.
METRO SPECIAL INSPECTIONS	937751	3	N/A	8/3/2022	10/25/2022	83 d	12/22/2022	Late
HILLMAN CONSULTING LLC	930620	3	N/A	7/14/2022	9/27/2022	75 d	10/12/2022	Postponed due to conflicting schedules.
OMSUM ENGINEERING, LLC	972623	3	N/A	4/14/2023	7/14/2023	91 d	7/17/2023	Late
EUROIMMUN US INC	982158	5	N/A	5/26/2023	6/13/2023	18 d	9/14/2023	Inspector's poor planning - did not reach out to licensee in a timely matter to get inspection scheduled prior/closer to due date
BUREAU VERITAS NORTH AMERICA INC	983176	3	N/A	7/5/2023	7/20/2023	15 d	7/23/2023	Late
CARIOVASCULAR ASSOC FO THE DELAWARE VALLEY	797142	5	N/A	8/21/2020	8/24/2020	3 d	9/16/2020	COVID screening forms sent on 8/11/20 (prior to due date). Inspector chose to do the on-site visit 3

								days late rather than having the licensee send records.
CARDIOVASCULAR LAB @ COMMUNITY MEDICAL CENTER	919235	5	N/A	12/23/2021	7/1/2022	190 d	7/14/2022	Late
*Factors contributing to late initial inspections are: Public Health Emergency, new staff, presentation of inspection schedule (on separate tab), and organizational structure of the BER.								

13. Please submit a table or computer printout that identifies any Priority 1, 2, and 3 licensees and initial inspections that are currently overdue, per IMC 2800. At a minimum, the list should include the same information for each overdue inspection provided for Question 12 plus your action plan for completing the inspection. Also include your plan for completing the overdue inspections.

1 Priority 5 and 1 Priority T currently overdue

PENDING								
Licensee Name	License Number	Priority	Last inspection date	Date Due	Date Performed	Days Elapsed	Inspection findings issued	Cause of Lateness
ASSESSMENT RESOURCES & TECHNOLOGIES INC	978439	T	N/A	7/8/2023	Terminating	Terminating	Terminating	Licensee failed to respond in a timely fashion. RMP staff did not follow up
TERRANCE LEE, M.D.	830128	5	N/A	3/28/2023*	Pending	Pending	N/A	Licensee applied to reopen second office. Inspector contacted the licensee multiple times and each time they confirmed no RAM at this locaiton. *Due date was extended to September 2023 per MC2800. They are approaching 2 years with no activity. will be sent info about

								termination. The licensee's other office was inspected 3/9/23
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Plan for completing overdue inspections: If either section is experiencing a backlog of inspections, then the supervisor will reach out to the other section for assistance from qualified inspectors. For example, Jack Tway and Sarah Sanderlin of the Industrial Section recently assisted with some medical inspections for which they were qualified to prevent them from becoming late.

14. Please provide the number of reciprocity licensees that were candidates for inspection per year as described in IMC 1220 and indicate the number of reciprocity inspections of candidate licensees that were completed each year during the review period.

2019. P1-3, 17 Candidates, 7 Inspections 41% P5 14 Candidates, 3 Inspections 21%
2020. P1-3, 25 Candidates, 0 Inspections 0% , P5 15 Candidates, 2 Inspections 17%
2021. P1-3 29 Candidates, 3 Inspections 10% P5 19 Candidates 0 Inspections 0%
2022. P1-3 16 Candidates, 6 Inspections 38% P5 18 Candidates 7 Inspections 39%
2023. P1-3 19 Candidates, 2 Inspections 11% P5 13 Candidates 2 Inspections 15%
2024. P1-3 9 Candidates. 1 Inspection 11% P5 6 Candidates 0 Inspections 0%

Year	Priority	# Candidates for Inspection	# Candidate Inspections Completed	Percentage Completed	Percentage Required
2019	1-3	17	7	41	15
	Other	14	2	17	N/A
2020	1-3	25	0	0	15
	Other	15	2	17	N/A
2021	1-3	29	3	10	15
	Other	19	0	0	N/A
2022	1-3	16	6	38	15
	Other	18	7	39	N/A
2023	1-3	19	2	11	15
	Other	13	2	15	N/A
2024	1-3	9	1	11	15
	Other	6	0	0	N/A
1-3 Total		115	19	16.5	15
Total		200	32	16	

III. Technical Quality of Inspections

15. What, if any, changes were made to your written inspection procedures during the reporting period?

Developed COVID related procedures which are in abeyance now.
MC2800 Updated to use NRC frequency of inspections.
IP 87137 – Materials Security Programs
IP 87104 – Decommissioning of Materials Licensees

IP 83822 – Radiation Protection
IP 84900 – Low-Level Radioactive Waste
IP 83890 – Closeout Inspection and Survey
IP 87300 – Groundwater Monitoring (New)
IP 87305 – Management Organization and Controls (New)
MC 2602 – Decommissioning Oversight and Inspection Program for Materials Licensees
BER 6.01 – Formal Qualification Plan – updated course list and definition of fully qualified

16. Prepare a table showing the number and types of supervisory accompaniments made during the review period. Include:

<u>Inspector</u>	<u>Supervisor</u>	<u>License Category</u>	<u>Date</u>
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Attachment 5

17. Describe or provide an update on your instrumentation, methods of calibration, and laboratory capabilities. Are all instruments properly calibrated at the present time? Were there sufficient calibrated instruments available throughout the review period?

A list of instrumentation is provided in Attachment 6. The NJ Department of Health and Senior Services Radiation Laboratory provides analytical services. In addition, we could contract out any unusual analytical needs to a contract laboratory. We maintain maintenance and calibration service agreements with the instrument manufacturers, calibration service providers, and the NJ State Police Calibration Lab. NJ self- identified calibration difficulties that are outlined in Attachment 7. All instruments that were used were calibrated with the exception of the REAS instruments.

IV. Technical Quality of Licensing Actions

18. How many specific radioactive material licenses does your program regulate at this time?

519 Specific Licenses
Priority 1- 8 Priority 2- 60 Priority 3 151 Priority 5- 270 Priority T 30

19. Please identify any major, unusual, or complex licenses which were issued, received a major amendment, were terminated, decommissioned, submitted a bankruptcy notification or renewed in this period.

Ledoux: PI# 508010
Siemens: PI# 439562
Shieldalloy Metallurgical Corporation: PI# 517488
Hackensack UMC: PI# 450695
RWJBH New Brunswick: PI# 450729
Frontage: PI# 875872

20. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period.

See COVID Policy and Spreadsheet (Attachment 8 and 9). No exemptions were necessary during the Public Health Emergency. NJ has a process for regulation exemptions which go through our Commission on Radiation Protection (See N.J.A.C. 7:28-2.8)

21. What, if any, changes were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?

Implemented encrypted email issuance of licenses.

COVID SOPs which are in abeyance now.

Minor Changes in existing procedures.

BER 6.01 – Formal Qualification Plan – updated course list and definition of fully qualified

22. Identify by licensee name and license number any renewal applications that have been pending for one year or more. Please indicate why these reviews have been delayed and describe your action plan to reduce the backlog.

St. Francis Veterinary Center PI# 564322; multiple requests to either add an AU or terminate the license.

Atlanticare Physician Group Cardiology PI# 458294; late due to injury of primary reviewer. Was reassigned on 2/9/24

Atlanticare Physician Group Cardiology PI# 458302; no response to the last request for additional information on 9/7/2023.

Hackensack University Medical Center PI# 450695; Numerous amendments were requested during the renewal period and staff rolled them into the renewal.

V. Technical Quality of Incident and Allegation Activities

23. For Agreement States, please provide a list of any reportable incidents not previously submitted to NRC (See Procedure SA-300, *Reporting Material Events*, for additional guidance, OMB clearance number 3150-0178). The list should be in the following format:

<u>Licensee Name</u>	<u>License #</u>	<u>Date of Incident/Report</u>	<u>Type of Incident</u>
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None

24. Identify any changes to your procedures for responding to incidents and allegations that occurred during the period of this review.

Updated Contact Information

Minor Changes in existing procedures

C. **NON-COMMON PERFORMANCE INDICATORS**

I. Compatibility Requirements

25. Please list all currently effective legislation that affects the radiation control program. Denote any legislation that was enacted or amended during the review period.

**Radiation Protection Act N.J.S.A. 26:2D
Atlantic Interstate Low-Level Radioactive Waste Compact Implementation Act**

26. Are your regulations subject to a "Sunset" or equivalent law? If so, explain and include the next expiration date for your regulations.

New Jersey's Radiation Protection Code N.J.A.C. 7:28 is subject to "Sunset" law. The Radiation Protection Code will sunset on February 19, 2027. A simple notice is filed for publication in the New Jersey Register if it will be readopted without changes at that time.

27. Please review and verify that the information in the enclosed State Regulation Status (SRS) sheet is correct. For those regulations that have not been adopted by the State, explain why they were not adopted, and discuss actions being taken to adopt them. If legally binding requirements were used in lieu of regulations and they have not been reviewed by NRC for compatibility, please describe their use.

The SRS sheet is correct.

28. If you have not adopted all amendments within three years from the date of NRC rule promulgation, briefly describe your State's procedures for amending regulations in order to maintain compatibility with the NRC, showing the normal length of time anticipated to complete each step.

All regulations have been adopted within 3 years.

II. Sealed Source and Device (SS&D) Evaluation Program **N/A**

29. Prepare a table listing new and amended (including transfers to inactive status) SS&D registrations of sources and devices issued during the review period. The table heading should be:

<u>SS&D Registry Number</u>	<u>Manufacturer, Distributor or Custom User</u>	<u>Product Type or Use</u>	<u>Date Issued</u>	<u>Type of Action</u>
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30. Please include information on the following questions in Section A, as they apply to the SS&D Program:

Technical Staffing and Training - Questions 2-9
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

III. Low-level Radioactive Waste Disposal Program

31. Please include information on the following questions in Section A, as they apply to the Low-Level Radioactive Waste Disposal Program:

New Jersey has incorporated all of 10 CFR Part 61 by reference into its regulations. Although New Jersey will be able to regulate siting and operation of a low-level radioactive waste disposal facility, this authority may never need to be implemented, as New Jersey is

currently a member of the Atlantic Compact. Therefore, at the current time, this section is N/A.

Technical Staffing and Training - Questions 2-9
Status of Materials Inspection Program - Questions 10-14
Technical Quality of Inspections - Questions 15-17
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

IV. Uranium Recovery Program **N/A**

32. Please include information on the following questions in Section A, as they apply to the Uranium Recovery Program:

Technical Staffing and Training - Questions 2-9
Status of Materials Inspection Program - Questions 10-14
Technical Quality of Inspections - Questions 15-17
Technical Quality of Licensing Actions - Questions 18-22
Technical Quality of Incident and Allegation Activities - Questions 23-24

MATERIALS REQUESTED TO BE AVAILABLE FOR THE ON-SITE PORTION OF AN IMPEP REVIEW

Please have the following information available for use by the IMPEP review team when they arrive at your office:

- List of open license cases, with date of original request, and dates of follow-up actions.
- List of licenses terminated during review period.
- Copy of current log or other document used to track licensing actions.
- List of all licensing actions completed during the review period (sorted by license reviewer, if possible).
- Copy of current log or other document used to track inspections.
- List of all inspections completed during the review period (sorted by inspector, if possible).
- List of inspection frequencies by license type.
- List of all allegations occurring during the review period. Show whether the allegation is open or closed and whether it was referred by NRC.
- List of all licenses that your agency has imposed additional security requirements upon.

ALSO, PLEASE HAVE THE FOLLOWING DOCUMENTS AVAILABLE:

- All State regulations
- Statutes affecting the regulatory authority of the State program
- Standard license conditions
- Technical procedures for licensing, model licenses, review guides
- SS&D review procedures, guides, and standards
- Instrument calibration records
- Inspection procedures and guides
- Inspection report forms
- Documented training plan, if applicable
- Records of results of supervisory accompaniments of inspectors
- Emergency plan and communications list
- Procedures for investigating allegations
- Procedures for investigating incidents
- Enforcement procedures, including procedures for escalated enforcement, severity levels, civil penalties (as applicable)
- Job descriptions

Attachment 3

Staffing Plan (% FTE)

Name	Position	Administration ¹	Lic & Compliance ²	Emerg Response
Jenny Goodman	Manager 4 ³	60%	10%	10%
Debbie Wenke	Supv Medical	20%	65%	15%
Jack Tway	Supv Industrial	20%	65%	15%
Nancy Stanley	QLR/I	5%	45%	50%
Claire Drozd	QLR/I	5%	90%	5%
James McCullough	Supv REAS ³	10%	20%	15%
Chris Giaquinto	QLR/I	5%	90%	5%
Rich Peros	QLR/I	10%	75%	15%
Karen Flanigan ⁵	QLR/I	15%	50%	20%
Sarah Sanderlin	LR/I	5%	90%	5%
Joseph Power	LR/I ³	5%	30%	15%
Dan Tabor	LR/I	5%	90%	5%
Jodie Murl ⁴	Sr Tech MIS	100%		
KJ Karausky	Env Specialist 1 ³	5%	10%	5%
Kaitlin Rainey	Env Services Trainee ³	5%	5%	

¹ Administration includes rule writing, review and comment on NRC, CRCPD, and OAS documents or rules, and general management duties.

² Licensing & Compliance includes training

³ Remaining percentage devoted to non-licensed contaminated site cleanups, Radon or Radon/Radium/Uranium in Water

⁴ General Administration of Agreement State program, including answering the phone, organizing license files, entering data into NJEMS, etc.

⁵ Remainder spent on IT issues, training, and database maintenance and upgrade testing

Attachment 4

Staff Qualifications

last updated 02-07-2024

Inspector Name	Section	Qualifications	Classes Needed	Tentative Completion
Debbie Wenke*	Medical	Fully Qualified Medical and Industrial	Education & Experience	
Nancy Stanley*	Medical	Fully Qualified Medical and Industrial	Education & Experience	
Rich Peros*	Medical	Fully Qualified Medical and Industrial	All NRC classes completed	
Karen Flanigan	Medical	Fully Qualified Medical	All NRC courses completed	
		Partially Qualified Industrial	All NRC courses completed	5 more license reviews and 1 inspection. 1 yr
Claire Drozd	Medical	Partially Qualified Medical	Need Advanced Health Physics	2 years
		Not Qualified in Industrial	No NRC Classes completed	5 years - 7 years
James McCullough	REAS	Fully Qualified Medical, Industrial	All required courses completed, ongoing continuing education & Advanced courses	
		Fully Qualified Decommissioning	All required courses completed, ongoing continuing education & Advanced courses	
Joe Power	REAS	Fully Qualified Industrial	All except Well Logging completed	
		Partially Qualified Decommissioning	MARSAME, Environmental Sampling Lab	May-24
		Partially Qualified Medical	All NRC classes completed	Within 5 years (many new employees will get priority)
KJ Karausky	REAS	None	Basic HP, Licensing, Inspection classes completed in first year with BER. Need all other Core, Specialized & Advanced courses.	Fully qualified Industrial within 3 years Fully qualified Decommissioning within 4 years
Kaitlin Rainey	REAS	None	New hire: Needs all Core, Specialized and Advanced Courses.	Fully qualified Decommissioning within 8 years.
			All	Fully qualified Decommissioning within 8 years.
Jack Tway	Industrial	Fully Qualified Medical and Industrial	All required courses completed, ongoing continuing education & Advanced courses	
Sarah Sanderlin	Industrial	Fully Qualified Industrial		
		Partially Qualified Medical	need license reviews and inspections	Within 3 years
Christopher Giaquinto	Industrial	Partially Qualified Industrial	Need Advanced Health Physics, Well logging	Within 2 years
Daniel Tabor	Industrial	Partially Qualified Industrial	Need well logging	Within 2 years

* Master's Degree in Radiation Science

Attachment 5 Supervisory Accompaniments

INSPECTOR NAME	DATE	SUPERVISOR	PROGRAM CODES	LICENSE NUMBER
Biel, Cathy	11/20/2019	Jenny Goodman	Nuclear Pharmacy, Radionuclide production using and accelerator, Diffuse NARM	452369
Drozd, Claire	12/12/2022	Nancy Stanley	Medical Private Practice - WD Not Required	332082
	5/8/2023	Nancy Stanley	Medical Institution - WD Required, Medical Therapy - Other Emerging Technology	457899
Flanigan, Karen	11/21/2019	Richard Peros	Medical Institution - WD Required, Medical Therapy - Other Emerging Technology	297846
	12/1/2021	Richard Peros	Medical Institution - WD Required, HDR, Medical Therapy - Other Emerging Technology	454375
	12/12/2022	Richard peros	Medical Institution - WD Required	438395
	12/5/2023	Richard Peros	Medical Institution - WD Required, HDR, Medical Therapy - Other Emerging Technology	450632
Giaquinto, Christopher	11/30/2021	Jack Tway	Measuring Systems Portable Gauges	507330
	8/11/2022	Jack Tway	Measuring Systems Portable Gauges	585584
	7/11/2023	Jack Tway	Industrial Radiography Fixed Location, Industrial Radiography Temporary Job Sites	506963
Goeman, Brittany	9/6/2022	Richard Peros	Medical Institution - WD Not Required	438346
McCullough, James	10/17/2019	Jenny Goodman	Source Material	517488
	11/16/2021	Jenny Goodman	TENORM	453798
	11/15/2022	Jenny Goodman	Service Provider, Diffuse NARM	470762
	11/2/2023	Jack Tway	Decommissioning of Diffuse NARM Facilities	453798
Peros, Richard	11/15/2019	Debbie Wenke	Medical Institution - WD Required, HDR, Gamma Stereotactic Surgery, RSRM, NSTS, IAEA Cat 1 Sources	332041
	10/25/2021	Debbie Wenke	Medical Institution - WD Required, HDR, Medical Therapy - Other Emerging Technology	332163
	12/8/2022	Debbie Wenke	Medical Private Practice - WD Not Required	969205
	11/28/2023	Debbie Wenke	Medical Institution - WD Required	447274
Power, Joseph	11/15/2019	Jack Tway	Industrial Radiography Temporary Job Sites	569917
	10/20/2021	James McCullough	Source Material Possession Only Permanent Shutdown	517488
	12/6/2022	James McCullough	Special Nuclear Material Plutonium Unsealed Less than Critical Mass	508010
	11/1/2023	James McCullough	Source Material Possession Only Permanent Shutdown	517488
Sanderlin, Sarah	10/30/2019	Cathy Biel	Measuring Sytems Portable Gauges, Measuring Systems Other	713138
	11/16/2021	Jack Tway	Nuclear Pharmacies, Source Material Shielding	440735
	8/17/2022	Jack Tway	Irradiators Other Greater than 10, 000 Ci, RSRM, NSTS, IAEA Cat 1 Sources	507153
	3/23/2023	Jack Tway	Nuclear Pharmacies, Radionuclide Production Using and Accelerator, Diffuse Narm	
Stanley, Nancy	7/11/2019	Debbie Wenke	Medical Institution- WD Required, HDR, Medical Therapy - Other Emerging Technologies	455115
	7/21/2021	Debbie Wenke	Medical Institution- WD Required, Medical Therapy - Other Emerging Technologies	457899
	12/6/2022	Debbie Wenke	Medical Private Practice - WD Required	438397
	8/31/2023	Debbie Wenke	Medical Institution- WD Required	450647
Tabor, Daniel	7/22/2022	Jack Tway	Measuring Systems Portable Gauges	507329
	7/18/2023	Jack Tway	Industrial Radiography Fixed Location, Industrial Radiography Temporary Job Sites, RSRM	507051
Truskowski, Ed	12/5/2019	Debbie Wenke	Medical Institution - WD Required	447274
Tway, Jack	9/13/2019	Cathy Biel	Irradiators Self Shielded Less Than or Equal to 10.000 Ci, RSRM, NSTS, IAEA Cat 1 Sources	507655
	12/2/2021	Jenny Goodman	Industrial Radiography Temporary Job Sites	565318
	10/27/2022	Jenny Goodman	Measuring Systems Portable Gauges, Measuring Systems Other	713138
	9/21/2023	Jenny Goodman	Research and Development Broad Type A	507395
Wenke, Debbie	12/3/2019	Jenny Goodman	Medical Private Practice - WD Required	714014
	12/16/2021	Jenny Goodman	Medical Private Practice - WD Not Required	521000
	12/5/2022	Jenny Goodman	Medical Private Practice - WD Required	714014
	9/25/2023	Jenny Goodman	Medical Private Practice - WD Required	330835

Today's Date: 3/1/2024

Make	Model	serial #	issued to	inventory #	start date	sent out	cal due	invoice date	notes
FLIR	Identifinder 2	910385-1288	R. Peros	145059	06/22/15		07/17/21		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1292	J. Tway	145060	06/22/15		04/27/23		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1294	RMP	145058	06/22/15	04/20/21	05/06/22		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1301	N. Stanley	145061	06/22/15		07/17/21		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1384	D. Wenke	145055	06/22/15		07/17/21		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1400	C. Giaquinto	145054	06/22/15	04/21/22	04/27/23		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1401	J. McCullough	145056	06/22/15		01/26/25		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1415	D.Tabor	145053	06/22/15		01/19/25		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1422	K. Flanigan	145062	06/22/15		01/19/25		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1423	KJ	145057	06/22/15	04/20/21	01/18/25		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	Identifinder 2	910385-1424	S. Sanderlin	145063	06/22/15		01/23/25		do not require annual calibration per FLIR; 5-yr warranty ended 6/22/2020.
FLIR	radHUNTER	1021 66003926	RMP	E000032900	06/22/15		06/29/22		Stored next to ORTECs (in pelican case); NJDEP Tag E000032900 (over \$ threshold for needing special #)
Thermo	Identifinder	04f3-2475	RMP	135144	03/12/16				No repair contract for FLIR for FY16 because we have new identiFINDERS. These don't have neutron detectors
Thermo	Identifinder	04f3-2476	RMP	135146	03/11/16				
Thermo	Identifinder	04f3-2488	RMP	135145	04/22/16				
Ortec	Detective-EX	9905790-591							Ametek had it for 4 months.
Ortec	Docking Station	905790-736							Sent new power adaptor! 2014
Ortec	Micro-Detective	16189012		E000040100					Hold power button for 20 seconds to force restart (example: error with flashing and beeping and says to press select, but pressing select doesn't do anything) ; long background measurement scheduled to be done on the first of every month- SA ; NJDEP Tag E000040100
Ludlum K1	19	209762	D. Wenke	133448			07/24/24		Returned 6/28/2021
Ludlum K1	17	208698	D. Wenke	133448		07/08/22	07/25/24		
Ludlum K1	3	208097	D. Wenke	133448		07/08/22	07/25/24		Returned 6/28/2021
Ludlum K1	44-9	214116	D. Wenke	133448		07/08/22	N/A		
Ludlum K1	44-38	215840	D. Wenke	133448		07/08/22	07/25/24		FAILED 7/27/2023
Ludlum K2	19	209709	J Tway	133449		07/08/22	08/01/24		

Ludlum K2	17	205000	J Tway	133449		07/08/22	08/01/24		
Ludlum K2	3	208092	J Tway	133449		07/08/22	08/01/24		
Ludlum K2	44-9	214104	J Tway	133449		07/08/22	n/a		
Ludlum K2	44-38	215837	J Tway	133449		07/08/22	08/01/24		
Ludlum K3	19	209695	N Stanley	133446			09/05/24	7/9/05	Returned 8/31/21
Ludlum K3	17	204994	N Stanley	133446			08/02/23	7/9/05	Returned 8/31/21; failed calibration
Ludlum K3	3	208007	N Stanley	133446		08/19/22	07/25/24	7/9/05	Returned 8/31/21
Ludlum K3	44-9	305088	N Stanley	133446		n/a	n/a		
Ludlum K3	44-38	215839	N Stanley	133446		08/19/22	07/25/24	7/9/05	Returned 8/31/21
Ludlum K4	19	207428	R. Peros	133447		07/08/22	Failed Cal	2/6/18	
Ludlum K4	17	208688	R. Peros	133447		07/08/22	08/01/23	2/6/18	FAILED! 7/27/2024
Ludlum K4	3	208082	R. Peros	133447		07/08/22	07/27/24	2/6/18	
Ludlum K4	44-9	214115	R. Peros	133447		07/08/22	not sent		
Ludlum K4	44-38	215816	R. Peros	133447		07/08/22	07/27/24		
Ludlum K5	19	209756	J. McCullough	134111		08/19/22	8/1/2024	8/17/17	
Ludlum K5	17	212096	J. McCullough	134111		08/19/22	8/1/2024	8/17/17	
Ludlum K5	3	209001	J. McCullough	134111		08/19/22	8/1/2024	8/17/17	
Ludlum K5	44-38	215815	J. McCullough	134111		08/19/22	8/1/2024		
Ludlum K5	44-9	222312	J. McCullough	134111		08/19/22	N/A		2π efficiencies: Cs-137 662 keV γ γγ1.5%, Ba-133 356 keV γ 0.3%, Th-230 25.3%, Tc-99 26.8% βα
Ludlum K6	19	207482	C. Drozd	134112		07/08/22	07/28/24		
Ludlum K6	17	212106	C. Drozd	134112		07/08/22	07/27/24		
Ludlum K6	3	209108	C. Drozd	134112		07/08/22	07/27/24		
Ludlum K6	44-9	222314	C. Drozd	134112		07/08/22	n/a		
Ludlum K6	44-38	215831	C. Drozd	134112		07/08/22	07/27/24		
Ludlum K7	*See Retired Sheet*						N/A		
Ludlum K8	19	282767	K. Flanigan			06/20/23	7/10/2024		
Ludlum K8	9-3	278498	K. Flanigan	139660		06/20/23	7/10/2024		
Ludlum K8	3	284622	K. Flanigan	139659		06/20/23	7/10/2024		calibrated using 44-38
Ludlum K8	44-9	303158	K. Flanigan			06/20/23	N/A		Sent, NJSP to do efficiency on these
Ludlum K8	44-38	302318	K. Flanigan			06/20/23	N/A		used with Model 3 for cal.
Ludlum K9	19	282772	K. Karausky	139661		07/08/22	07/28/24	11/12/17	
Ludlum K9	9-3	277058	K. Karausky	139662		07/08/22	07/28/24	11/12/17	
Ludlum K9	3	284740	K. Karausky			07/08/22	07/27/24	11/12/17	
Ludlum K9	44-9	214082	K. Karausky			07/08/22	N/A		
Ludlum K9	44-38	302324	K. Karausky			07/08/22	07/27/24		
Ludlum K10	19	282793	C. Giaquinto	139669		04/21/22	07/28/24		
Ludlum K10	9-3	279937	C. Giaquinto	139670		04/21/22	07/28/24		
Ludlum K10	3	284450	C. Giaquinto			04/21/22	07/27/24		
Ludlum K10	44-9	305562	C. Giaquinto				not sent		
Ludlum K10	44-38	302323	C. Giaquinto			04/28/22	7/27/2024		
Ludlum K11	19	282726	D. Tabor	139667		07/08/22	08/01/24	8/30/18	
Ludlum K11	9-3	279906	D. Tabor	139668		07/08/22	08/01/24	8/30/18	
Ludlum K11	3	284664	D. Tabor			07/08/22	08/01/24	8/30/18	

Ludlum K11	44-9	303159	D. Tabor			07/08/22	not sent			
Ludlum K11	44-38	302296	D. Tabor			07/08/22	8/1/2024			
Ludlum K12	19	282779	S. Sanderlin	139665		07/08/22	07/24/24	11/12/17	Shipped to Laurus 6/4/21	
Ludlum K12	9-3	279913	S. Sanderlin	139666		04/28/23	5/17/2024	11/12/17	Shipped to Laurus 6/4/21	
Ludlum K12	3	284539	S. Sanderlin			07/08/22	07/25/25	11/12/17	Shipped to Laurus 6/4/21	
Ludlum K12	44-9	303798	S. Sanderlin			07/08/22	N/A		Shipped to Laurus 6/4/21	
Ludlum K12	44-38	302325	S. Sanderlin				7/25/2025			
Ludlum K13	19	282742	J. Power	139663		06/20/23	7/10/2024			
Ludlum K13	9-3	278505	J. Power	139664		06/20/23	7/10/2024			
Ludlum K13	3	284725	J. Power			06/20/23	7/10/2024			
Ludlum K13	44-9	303788	J. Power				not sent			
Ludlum K13	44-38	302301	J. Power			06/20/23	N/A			
Thermo K1	FH40GL Multipurpose	16903 16213 192 1258	Industrial Section	135140				02/23/24	State Police	Assigned for Shipping purposes only
Thermo K1	FH40GL Multipurpose		Industrial Section	135140				02/23/24	State Police	Assigned for Shipping purposes only
Thermo K1	FHT-752SH He-3 Neutron		Industrial Section	135140				02/23/24	State Police	Assigned for Shipping purposes only
Thermo K1	FHZ-732GM Pancake		Industrial Section	135140				02/23/24	State Police	Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K1	Teleprobe 13'	546	Industrial Section	135140					State Police	Assigned for Shipping purposes only
Thermo K1	FHZ-612 Hi-range Gamma	526	Industrial Section	135140				02/23/24	State Police	Assigned for Shipping purposes only
Thermo K2	FH40GL Multipurpose	16890	Industrial Section	135141		04/20/22	09/05/24			Assigned for Shipping purposes only
Thermo K2	FH40GL Multipurpose	16217	Industrial Section	135141		04/20/22	09/05/24			Assigned for Shipping purposes only
Thermo K2	FHT-752SH He-3 Neutron	190	Industrial Section	135141		04/20/22	09/05/24			Assigned for Shipping purposes only
Thermo K2	FHZ-732GM Pancake	1256	Industrial Section	135141		04/20/22	09/05/24			Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K2	Teleprobe 13'	542	Industrial Section	135141		04/20/22	09/05/24			Assigned for Shipping purposes only
Thermo K2	FHZ-612 Hi-range Gamma	523	Industrial Section	135141		04/20/22	09/05/24			Assigned for Shipping purposes only
Thermo K5	FH40GL Multipurpose	18058	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K5	FHT-752SH He-3 Neutron	281	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K5	FHZ-732GM Pancake	1697	Medical Section	None				03/21/24		Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K5	FHZ512A NaI Micro-R	728	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K5	Teleprobe 13'	883	Medical Section	None				N/A		Assigned for Shipping purposes only (612 failed cal)
Thermo K5	FHZ-612 Hi-range Gamma	747	Medical Section	None				07/09/22		Failed Cal. Do not use
Thermo K5	FHZ-672 Blue Scintillator	372	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K5	FHZ-380 AB Alpha Scint	379	Medical Section	None				03/21/24		Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K6	FH40GL Multipurpose	18057	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K6	FHT-752SH He-3 Neutron	282	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K6	FHZ-732GM Pancake	1683	Medical Section	None				03/21/24		Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K6	FHZ512A NaI Micro-R	727	Medical Section	None				03/21/24		Assigned for Shipping purposes only
Thermo K6	Teleprobe 13'	897	Medical Section	None				03/21/24		Assigned for Shipping purposes only

Thermo K6	FHZ-612 Hi-range Gamma	755	Medical Section	None		03/21/24		Assigned for Shipping purposes only
Thermo K6	FHZ-672 Blue Scintillator	382	Medical Section	None		03/21/24		Assigned for Shipping purposes only
Thermo K6	FHZ-380 AB Alpha Scint	376	Medical Section	None		03/21/24		Need alpha and beta efficiencies as part of calibration. Assigned for Shipping purposes only
Thermo K9	FH40GL Multipurpose	18015	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHT-752SH He-3 Neutron	288	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHZ-732GM Pancake	1693	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHZ512A Nal Micro-R	732	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	Teleprobe 13'	910	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHZ-612 Hi-range Gamma	759	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHZ-672 Blue Scintillator	373	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K9	FHZ-380 AB Alpha Scint	378	RMP	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	FH40GL Multipurpose	18055	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	FHT-752SH He-3 Neutron	283	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	FHZ512A Nal Micro-R	729	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	Teleprobe 13'	878	Medical Section	?		N/A		Assigned for Shipping purposes only
Thermo K10	FHZ-612 Hi-range Gamma	751	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	FHZ-672 Blue Scintillator	374	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Thermo K10	FHZ-380 AB Alpha Scint	381	Medical Section	?		08/03/22		Assigned for Shipping purposes only
Ludlum	19 (REAS)	78902	REAS			11/13/2024		missed calibration in 2020 because couldn't locate, now found and in the store-room. May/may not calibrate again under new PO. Redundant instrument.
Ludlum	19 (REAS)	78911	REAS - J. McCullough			5/17/2024		
Ludlum	19 (REAS)	78928	REAS - J. Power			11/13/2024		Calibrated for the first time since 1994 - will replace Model 19 serial no. 43891.
Ludlum	19 (NJGWS)	78910	Belongs to NJGS, BER calibrates			3/21/2024	12/14/17	RMP is paying for calibration and mailing of instrument for NJGS. NJGS contact is Ray Bousenberry. (Returned to Ray 4/28/23)
Ludlum	2221	313979	REAS - J. McCullough			02/09/24	2/7/2024	Electronic/pulser calibration; Electronic/pulser calibration is appropriate as the instrument with this probe would be off scale on several multipliers (generally used on logarithmic scale). The sensitivity for Cs-137 should be determined and reported (cpm per μ R/hr) to suppose scan MDC calculations.
Ludlum	44-20	PR352079	REAS - J. McCullough			02/09/24	2/7/2024	
Ludlum	2360	307106	REAS - J. McCullough			02/09/24	2/7/2024	Datalogger with Alpha/Beta probe; an electronic/pulser calibration is ok. Alpha & Beta efficiencies should be determined, preferably C-14, another beta (Sr/Y-90, Tc-99) and an alpha (Th-230), but open to what sources lab has available. Prefer both 2π and 4π efficiency geometry reported.
Ludlum	43-93	PR351864	REAS - J. McCullough			02/09/24	2/7/2024	
NDS Products	ND-2000	81744	Industrial Section - SS			03/23/22	3/22/2024	
NDS Products	ND-2000	81745	Industrial Section - Jack			01/24/23	2/17/2024	State Police Replaced battery holder 6/4/18
NDS Products	ND-2000	81746	Industrial Section - CG			04/12/22	7/24/2024	

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Exploranium	GR-135	3087	R. Peros	132134			no cal		
Exploranium	GR-130	9970					no cal		
Thermo	identifinder HS-025-1	2652-41	was J. McCullough				03/13/16		Feb-2014 neutron detector defective, RMP decided not to repair, don't give this one to BER
Thermo	identifinder HS-025-1	2652-43	was J. Power				02/02/16		
Thermo	identifinder HS-025-1	2652-46	RMP				06/24/15		
Thermo	identifinder HS-025-1	2652-51	was RMP				12/15/15		required repairs in 2014
Thermo K7	FH40GL Multipurpose	18054	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHT-752SH He-3 Neutron	287	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHZ-732GM Pancake	1710	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHZ512A NaI Micro-R	721	RMP	?			05/12/22		Do not Calibrate
Thermo K7	Teleprobe 13'	906	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHZ-612 Hi-range Gamma	756	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHZ-672 Blue Scintillator	383	RMP	?			05/12/22		Do not Calibrate
Thermo K7	FHZ-380 AB Alpha Scint	375	RMP	?			05/12/22		Do not Calibrate
Thermo K8	FH40GL Multipurpose	18056	RMP	?					Do not Calibrate - Failed calibration 8/18/21
Thermo K8	FHT-752SH He-3 Neutron	286	RMP	?					Do not Calibrate
Thermo K8	FHZ-732GM Pancake	1704	RMP	?					Do not Calibrate
Thermo K8	FHZ512A NaI Micro-R	734	RMP	?					Do not Calibrate
Thermo K8	Teleprobe 13'	905	RMP	?					Do not Calibrate
Thermo K8	FHZ-612 Hi-range Gamma	753	RMP	?					Do not Calibrate
Thermo K8	FHZ-672 Blue Scintillator	381	RMP	?					Do not Calibrate
Thermo K8	FHZ-380 AB Alpha Scint	377	RMP	?					Do not Calibrate
Thermo K11	FH40GL Multipurpose	18017	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHT-752SH He-3 Neutron	285	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHZ-732GM Pancake	1694	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHZ512A NaI Micro-R	731	RMP	?			08/03/22		Do not Calibrate
Thermo K11	Teleprobe 13'	907	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHZ-612 Hi-range Gamma	752	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHZ-672 Blue Scintillator	380	RMP	?			08/03/22		Do not Calibrate
Thermo K11	FHZ-380 AB Alpha Scint	382	RMP	?			08/03/22		Do not Calibrate
Thermo K12	FH40GL Multipurpose	18019	RMP	?					Do not Calibrate
Thermo K12	FHT-752SH He-3 Neutron	280	RMP	?					Do not Calibrate
Thermo K12	FHZ-732GM Pancake	1699	RMP	?					Do not Calibrate
Thermo K12	FHZ512A NaI Micro-R	733	RMP	?					Do not Calibrate
Thermo K12	Teleprobe 13'	886	RMP	?					Do not Calibrate
Thermo K12	FHZ-612 Hi-range Gamma	750	RMP	?					Do not Calibrate

retired?
retired?
retired?
retired?

Thermo K12	FHZ-672 Blue Scintillator	375	RMP	?					Do not Calibrate
Thermo K12	FHZ-380 AB Alpha Scint	383	RMP	?					Do not Calibrate
Victoreen	450P	1826	R. Peros	120217		04/14/21		12/14/17	Needs repair, but Laurus does not have parts. Victoreen/Fluke contacted, but they also say unit cannot be repaired due to lack of available parts.
Thermo K3	FH40GL Multipurpose	16209	Industrial Sectors	135142		06/24/21	03/20/24		Assigned for Shipping purposes only
Thermo K3	FH40GL Multipurpose	16216	Industrial Sectors	135142		06/24/21	03/20/24		Assigned for Shipping purposes only
Thermo K3	FHT-752SH He-3 Neutron	193	Industrial Sectors	135142		06/24/21	03/20/24		Assigned for Shipping purposes only
Thermo K3	FHZ-732GM Pancake	1709	Industrial Sectors	135142		06/24/21	08/03/22		Failed Cal. Do not use
Thermo K3	FHZ512A NaI Micro-R	558	Industrial Sectors	135142		06/24/21	03/20/24		Assigned for Shipping purposes only
Thermo K3	Teleprobe 13'	545	Industrial Sectors	135142			03/20/24		Assigned for Shipping purposes only
Thermo K3	FHZ-612 Hi-range Gamma	524	Industrial Sectors	135142			03/20/24		Assigned for Shipping purposes only
Thermo K4	FH40GL Multipurpose	16214	Medical Section	135143			08/03/22		Failed Cal. Do not use
Thermo K4	FH40GL Multipurpose	16215	Medical Section	135143			08/04/22		Failed Cal. Do not use
Thermo K4	FHT-752SH He-3 Neutron	189	Medical Section	135143			03/20/24		Assigned for Shipping purposes only
Thermo K4	FHZ512A NaI Micro-R	555	Medical Section	135143			08/03/22		Failed Cal. Do not use
Thermo K4	Teleprobe 13'	528	Medical Section	135143			03/20/24		Assigned for Shipping purposes only
Thermo K4	FHZ-612 Hi-range Gamma	517	Medical Section	135143			03/20/24		Assigned for Shipping purposes only

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Ludlum K7	19	91561	retired!				6/22/2012		retired!
Ludlum K7	17	40514	retired!				6/22/2012		retired!
Ludlum K7	14C	128964	retired!				6/22/2012		retired!
Ludlum K7	44-9	131867	retired!				6/22/2012		retired!
Ludlum K7	HP270	10295	retired!				6/22/2012		retired!
Ludlum	19 (Ra-226)	43891	REAS - J. McCullough						determined to be broken by Applied Health Physics 2/18/20

From: [Goodman, Jenny \[DEP\]](#)
To: [Farrah Gaskins \(She/Her\)](#)
Subject: RE: Self Reporting IMPEP
Date: Monday, April 3, 2023 9:53:00 AM
Attachments: [image002.png](#)
[image003.png](#)

Hi Farrah,

We always had meters available although some inspections were delayed. None were overdue though. Debbie may have some more information and I will send that to you if it is of any consequence.

Jenny

Jenny Goodman, Manager
Bureau of Environmental Radiation
NJ Department of Environmental Protection
Mail Code 25-01
PO Box 420
Trenton, NJ 08625-0420

Phone (609) 984-5498
Cell (609) 218-8138
Fax (609) 984-5595



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From: Farrah Gaskins (She/Her) <Farrah.Gaskins@nrc.gov>
Sent: Friday, March 31, 2023 3:52 PM
To: Goodman, Jenny [DEP] <Jenny.Goodman@dep.nj.gov>
Subject: [EXTERNAL] RE: Self Reporting IMPEP

Hi Jenny,

Thanks so much for bringing this to our attention. I am happy to hear that you are in a good place now.

During the time the survey meters were not able to be calibrated, did inspectors have

access to any survey meters? (borrow , use licensee meter during inspection, etc).
Was this related to COVID?

Thanks again,
Farrah

Farrah C. Gaskins

Regional State Agreements Officer
U.S. NRC, Region I
475 Allendale Road, Suite 102
King of Prussia, PA 19406-2713
267-979-8903 (cell)*
610-337-5143 (office)

From: Goodman, Jenny [DEP] <Jenny.Goodman@dep.nj.gov>
Sent: Wednesday, March 29, 2023 1:36 PM
To: Farrah Gaskins (She/Her) <Farrah.Gaskins@nrc.gov>
Subject: [External_Sender] Self Reporting IMPEP

Hi Farrah,

At the meeting with the IMPEP WG, we were told that we should self-report any issues that we are having. We were having difficulties with instrument calibrations and purchasing due to procurement issues. Please see attached documentation. We have just been informed that our Fluke ion chambers are on their way to us. So currently, we are good.

Let me know if you have any questions or if you need further information.

Jenny

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**NEW JERSEY
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION**



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From: [Farrah Gaskins \(She/Her\)](#)
To: [Goodman, Jenny \[DEP\]](#)
Subject: [EXTERNAL] RE: Self Reporting IMPEP
Date: Friday, March 31, 2023 3:52:13 PM
Attachments: [image001.png](#)

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During the time the survey meters were not able to be calibrated, did inspectors have access to any survey meters? (borrow , use licensee meter during inspection, etc). Was this related to COVID?

Thanks again,
Farrah

Farrah C. Gaskins

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To: File

From: Daniel Tabor

Date: 2/17/23

Re: Purchasing ion chambers

On February 1, 2022, the Bureau of Environmental Radiation (BER) sent 3 Ludlum 9DP Ion chambers to Laurus for calibration and repair. Laurus sent a repair quote on 3/15/2022. The repair was approved by the Bureau of Environmental Radiation.

Due to supply chain issues, two of the 9DP's did not ship back until July 21, 2022. One of these two units had an unusually high background of 40-50 uR/hr. The third 9DP was still waiting on repair. On August 26, 2022 the third unit was shipped back to us, but was not charging. The unit was shipped back to Laurus for repair. The final 9DP SN: 25010956 was shipped back to the BER on November 16, 2022 and was functioning properly.

To: File

From: Rich Peros

Date: 2/15/23

Re: Purchasing ion chambers

In April 2022, the Bureau of Environmental Radiation (BER) first attempted to purchase a new ion chamber. Fluke was the preferred vendor because that is the type of ion chamber used most frequently by medical licensees and the BER wanted to take readings comparable to theirs. Additionally, the BER had purchased Ludlum ion chambers in the past and were not satisfied with the performance of these meters.

The initial purchase order attempt was rejected by Treasury. They insisted BER had to purchase ion chambers from the lowest bidder, which happened to be Ludlum. A new purchase order was created to purchase Ludlum ion chambers. Eventually, BER was informed that Ludlum was not being responsive to requests for information from procurement personnel. Therefore, BER could move on the next lowest bidder, which was Fluke.

Unfortunately, due to factors such as the length of time it took to hear back from procurement, deciding to purchase three meters, finding out we had to make two separate purchases, one for one meter and one for two meters, the need to keep requesting updated quotes from the vendors due to the length of time the approval process took, the change of State Fiscal Years, an administrative staff member forgetting to forward the request for the two meters, etc., as of February 15, 2023, the purchase of the two meters is still awaiting approval from procurement/Treasury. The request to purchase the one meter has been approved by procurement/Treasury, and the vendor confirmed receipt of the purchase order for the one meter.

To: File
From: James McCullough
Date: 3/2/23
Subject: REAS instrumentation

Radiological & Environmental Assessment Section (REAS) maintains the following instrumentation for which there were two lapses in annual calibration timeliness recently.

Instrumentation	Calibration Dates
Ludlum 2221 s/n 313979 paired with 44-20 s/n PR352079 3" NaI probe	2/21/2019, 2/18/2020, 5/3/2021, 2/7/2023
Ludlum 2360 s/n 307106 paired with 43-93 s/n PR351864 Alpha/Beta scintillator	2/21/2019, 2/18/2020, 5/3/2021, 2/7/2023

Both instrument sets were due for recalibration on 2/18/2021. There was a slight delay due staff working from home during the pandemic and they were shipped for calibration on 3/23/2021. They were not used during the period they were out of calibration. The new calibration date was 5/3/2021, thus there were some significant delays on the part of the calibration laboratory.

Both instruments were next due for calibration on 5/3/2022. Around this time the Bureau had been notified that a calibration Purchase Order which we were told had been approved in 2021 actually had not received approval, and that the current calibration company was no longer eligible to contract with NJ due to state procurement rules. The state had also experienced significant service delays as evidenced by the lapse noted in 2021. By June 2021 the Bureau prepared and sought quotes from other vendors for calibration of instruments, as had been done in the past, but none could handle all equipment, some did not respond, and ultimately a contract could not be secured. Concurrently, the State Police calibration laboratory was also sought as an option. BER staff even gathered calibration procedures from Ludlum to assist the lab, but they later indicated they were unable to service these instruments (they are now calibrating most other instrumentation). Finally, by November 2022 staff were directed to prepare a purchase order just for this instrumentation and this PO received approval on January 24, 2023. The equipment was shipped days later and finally calibrated and returned on 2/7/2023.

This second period represented a significant lapse of 9 months. Rather than not utilize equipment, it was deemed necessary to use the instrumentation a few times during this period to conduct gamma walkover surveys and decommissioning confirmatory surveys as both are more sensitive than available alternatives in our inventory. In BER instrument inventory, the 44-20 is solely suited for gamma walkover surveys as other instrumentation is less sensitive and incapable of being paired to the Bureau's GPS unit. The 43-93 has a much larger detector area and greater instrument efficiency than the alternative pancake probes (44-9, 26-1), and can be

used to datalog. Field operability checks were always performed to confirm the instrumentation could still be trusted for qualitative response and a calibrated (but less sensitive) instrumentation were used on the same visits had the need arose to require documentation of a violation based solely upon NJDEP instrumentation (this did not occur, but we were prepared with alternatives).

Attachment 8

BER COVID-19 Policy Statement

The Bureau of Environmental Radiation will ensure the continuance of operations of the Agreement State program during the Public Health Emergency (PHE) due to COVID-19 by instituting the following policies.

- Most staff will work from home. To do so, the state laptop will be used, and the staff member's internet will be used as long as it is secure (password enabled). There are sufficient laptops available for all staff that will be working from home. One staff member has volunteered to be in the office full time and one Sr Tech MIS has volunteered to come to the office periodically. The DEP Help desk will ensure that each staff member has the equipment and software necessary and will provide support such as enabling personal printers to function with state laptops.
- No in-person inspections will be performed unless they can be arranged to be conducted entirely outdoors.
- No new licenses will be issued unless a complete live video, starting on the street of the location, and showing all aspects of the facility, can be performed. The inspector will determine if the video is adequate to obtain confidence that the material will be used as intended and not for nefarious purposes.
- Remote inspections will be performed and will be a combination of document review, telephone or Teams calls, and/or onsite video of facility to be inspected. Procedures will be written to elaborate on the types of inspections. There may be circumstances when live video is not appropriate, such as for medical licensees due to HIPAA concerns.
- Procedures will be developed and followed on filing license actions.
- Hospital inspections can be delayed as New Jersey is one of the centers of infections and their attention is on the PHE.
- Any inspection frequency can be extended if it is determined that the PHE would prevent a comprehensive inspection.
- Licensees will be informed that they must submit requests for relaxation of regulatory requirements. Staff will confer and respond on a case-by-case basis. A spreadsheet will be maintained of these requests and resolutions.

This policy and any procedures developed for operations during the PHE will ensure that the NJ Agreement State Program remains adequate and compatible with the Nuclear Regulatory Commission's Materials program.

Manager, BER  Date: 3/19/2020

ATTACHMENT 9 COVID REGULATORY RELAXATION REQUESTS

Licensee (PI)	Date	Request	Pertinent Regulation	DEP Recommendation	Resolution	Expiration	Comments
JANX 507152	4/15/2020	To allow overnight storage of RSRM in company vehicles at employees home similar to hotel to prevent radiographers from coming into office everyday			Allowed on a temporary basis provided regulations for storage of mobile devices are strictly adhered to via a temporary interpretation of Section B of license	7/15/2020	Will re-evaluate if PHE continues
Mistras 507182	4/13/2020	To delay refresher training of radiographers due to PHE- prevent physical gathering			Instructed them to perform remote training either online or by telephone	n/a	
Cooper Medical Center	4/15/2020	To videoconference annual refresher training.	35.610(d), 35610(e)	Textbook training can be online (35.610(d)) but drill has to take place in person (35.610(e)), perhaps between limited number of staff at a time.	RSO believes he can conduct drills with reduced number of staff.		
Rutgers 460345	4/7/2020	Licensee reports that sealed source inventories may be late due to reduced # of staff. They are Broad Scope.	Condition 13	Enforcement discretion. Licensee will document if it happens.			
University Radiology 438361 Edison Office	5/1/2020	Office has been closed all of April. Linearity and annual audit were due this month.		Not considered a relaxation as a closed office would not have to perform QA on dose calibrator and perform annual audit. (or do we want them to perform audit. Let's discuss.	RSO (B. Tokarz) will perform tests not conducted during office closure before facility reopens.		
Raritan Bay Medical Center - Old Bridge 450734	5/7/2020	Delay in performing quarterly linearity and other quarterly audit activities due to corona virus restrictions		Inventory and leak test not due until July.	Testing and other audit activities will be performed once restrictions are relaxed.		