Approved by OMB[1]
Control No. 3150-0183
Expires 01/31/2020

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM QUESTIONNAIRE

Reporting Period: April 25, 2015 - March 29, 2019

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 McCabe reports directly to Governor Murphy

   (b) A chart showing positions of the radiation control program, including management; and
   Attachments 2 and 3

   (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. If consultants were used to carry out the program's radioactive materials responsibilities,

[1]Estimated 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.

include their efforts. The table heading should be:

Name	Position	Area of Effort	FTE%

See Attachment 4

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.

   Sarah Adkisson, April 28, 2017 B.S. Environmental Science
   Daniel Rice, April 4, 2016, 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 5 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.

   Added an instrument proficiency practicum
   Added qualification for Part 37 inspectors

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

   Sarah Staab Eingholm, September 2015
   Daniel Rice, December 2016

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 are no vacancies – one temporary lateral transfer for 1 year (Nadia Akbar)

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.

Priority 1 = 34 Priority 2 = 104 Priority 3 = 203 (341Total)
Initial 2015- 2; 2016- 14; 2017- 18; 2018- 3: 2019- 2 (39 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.

One 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 **Merck Sharp & Dohme Corp**
(2) License Number **456557**
(3) Priority (IMC 2800) **Priority 3 (03610 R&D Broad Type A)**
(4) Last inspection date **11/07/2013**
(5) Date Due **11/07/2016**
(6) Date Performed **9/24/2018**
(7) Amount of Time Overdue **22 Months**
(8) Date inspection findings issued **9/27/18**

Merck 2015: A General License Inspection was entered into NJEMS as a Standard Compliance Inspection when it should have been a Brief Compliance Inspection. This reset the next inspection date clock to 2018 rather than 2016, therefore it was conducted late. When it was discovered, an email was sent to all staff on 11/2/2018 about the proper types of inspections to enter into NJEMS. Also discussed at a regular Agreement State staff meeting.

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.

None

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.

2015- P1-3 23 Candidates, 8 Inspections 35% P5 18 Candidates, 4 Inspections 22%
2016- P1-3 23 Candidates, 6 Inspections 26% P5 12 Candidates, 4 Inspections 33%
2017- P1-3 19 Candidates, 8 Inspections 42% P5 14 Candidates, 2 Inspections 14%
2018- P1-3 23 Candidates, 9 Inspections 39% P5 17 Candidates, 1 Inspections 5%
2019- None to date

III. Technical Quality of Inspections

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

Part 37 Security Inspection Procedure 87137
Minor Changes in existing procedures - tracked changed documents will be available during IMPEP week

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

Inspector	Supervisor	License Category	Date

Attachment 6

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 7. 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 and calibration service providers. All instruments that are used are calibrated. There was an adequate supply of calibrated instruments available during the review period.

IV. Technical Quality of Licensing Actions

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

535 Specific Licenses
Priority 1- 8 Priority 2- 58 Priority 3 156 Priority 5- 280 Priority T 34

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.

Rutgers Renewal: PI# 460345
Cardinal Health Termination: PI# 440735
Cooper Hospital Renewal: PI# 438814
Shieldalloy Metallurgical Corporation: PI# 517488

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

None

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

New RSRM Checklist
New Pre-Licensing Checklist
Minor Changes in existing procedures - tracked changed documents will be available during IMPEP week

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.

Merial Limited License Number 507109, Program Code 03620 (R&D Other)
Received original renewal app: 2/28/2018
Request for Additional Information (RAI) # 1– sent on 3/20/18
Received response to RAI #1 – 8/17/18 (5 months)
RAI #2 – sent on 8/31/18

Decommissioning Questions – sent on 10/25/18
Decommissioning Questions response on 1/29/19
Still no answer on RAI #2

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:

Licensee Name	License #	Date of Incident/Report	Type of Incident

None

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

For terrorist incidents, incorporating NUSTL document:
Radiological Dispersal Device (RDD) Response Guidance (Planning for the First 100 Minutes)
Updated Contact Information
Minor Changes in existing procedures - tracked changed documents will be available during IMPEP week

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 May 9, 2020. 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. After adoption of our last regulation, the NRC provided 2 comments. They are currently being addressed in the rulemaking in progress for the clarification of 10 CFR 71 regarding general licenses and review of quality assurance plans of any state licensees that use Type B Casks, and Part 35 revisions. The proposal is scheduled for August 2019.

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:

SS&D Registry Number	Manufacturer, Distributor or Custom User	Product Type or Use	Date Issued	Type of Action

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

Attachment 4

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%
Catherine Biel	Supv Industrial	20%	65%	15%
Nancy Stanley	QLR/I	5%	25%	70%
Ed Truskowski	QLR/I	5%	80%	15%
James McCullough	Supv REAS[3]	10%	50%	15%
Jack Tway	QLR/I	10%	75%	15%
Rich Peros	QLR/I	10%	75%	15%
Karen Flanigan	QLR/I	10%	75%	15%
Sarah Adkisson	LR/I	5%	80%	15%
Joseph Power	LR/I	5%	80%	15%
Nadia Akbar[4]	LR/I	5%	93%	2%
Jodie Murl[5]	Tech MIS	100%		

[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 diffuse NARM and/or non-licensed contaminated site cleanups and Radon or Radon in Water
[4] Lateral Transfer for 1 year during CY 2018/2019
[5] General Administration of Agreement State program, including answering the phone, organizing license files, entering data into NJEMS, etc.

Attachment 5

Staff Qualifications — last updated 03-11-19

Inspector Name	Section	Qualifications	Classes Needed	Tentative Completion
Debbie Wenke*	Medical	Partially Qualified Medical	All NRC classes completed	need license reviews and inspections
		Partially Qualified Industrial		need license reviews and inspections
			Industrial Radiography H305	within 1 year
			Irradiator Technology H315	within 1 year
			Safety Aspects of Well Logging H314	within 1 year
Ed Truskowski*	Medical	Fully Qualified Medical and Industrial		
			Irradiator Technology H315	within 1 year
Nancy Stanley*	Medical	Fully Qualified Medical and Industrial		
			Irradiator Technology H315	within 1 year
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	need license reviews and inspections
Nadia Akbar	Medical	Partially Qualified Medical		need license reviews and inspections
			Advanced Health Physics H201	within 1 year
		Partially Qualified Industrial		need license reviews and inspections
			Safety Aspects of Well Logging H314	within 3 years
			Fundamental Health Physics Lab H122L	within 2 years
			Irradiator Technology H315	within 3 years
Catherine Biel	Industrial	Fully Qualified Industrial and Medical	All NRC classes completed	
James McCullough	Industrial	Fully Qualified Medical and Industrial	All NRC classes completed	
Jack Tway	Industrial	Fully Qualified Medical and Industrial	All NRC classes completed	
Joe Power	Industrial	Partially Qualified Industrial		needs SNM inspection
			Safety Aspects of Well Logging H314	within 1 year
		Partially Qualified Medical		need license reviews and inspections
			Brachytherapy & Gamma Knife H313	within 1 year
Sarah Adkisson	Industrial	Partially Qualified Industrial		need license reviews and inspections
			Licensing Practises G109	attending 3/11/19
			Inspection Procedures G108	within 1 year
			Safety Aspects of Well Logging H314	within 2 years
			Fundamental Health Physics Lab H122L	app due 4/1/19
			Advanced Health Physics H201	within 1 year
			Irradiator Technology H315	within 2 years
		Partially Qualified Medical		need license reviews and inspections
			Diagnostic/Therapeutic Nuc Med H304	app due 5/27/19
			Brachytherapy & Gamma Knife H313	within 2 years

* Master's Degree in Radiation Science

Inspector	Supervisor	License Category	Date
Adkisson, Sarah	Cathy Biel	Portable Gauge	10/17/2018
Akbar, Nadia*	Nancy Stanley	Med Private Pract. WD not req'd	09/28/2015
	Nancy Stanley	Med Institution WD req'd	04/28/2016
	Nancy Stanley	Med Private Pract. WD not req'd	11/1/17, 11/28/17
Biel, Catherine	Jenny Goodman	Service Provider	12/08/2015
	Jenny Goodman	R & D	11/01/2016
	Ed Truskowski	Medical Production Distribution	07/18/2017
	Jenny Goodman	Portable Gauge	11/14/2018
Flanigan, Karen	Rich Peros	Med Institution WD req'd, Gamma Knife, HDR	12/07/2015
	Jack Tway	Industrial Radiography	3/10/16, 4/6/16
	Rich Peros	Med Private Pract. WD not req'd	10/17/2017
	Rich Peros	Med Institution WD req'd, Sr-90, HDR	10/10/2018
McCullough, James	Jenny Goodman	Other Srvcs, Decommissioning	05/21/2015
	Jenny Goodman	Diffuse NARM/ TENORM	6/15/16, 9/23/16
	Jenny Goodman	Diffuse NARM/ TENORM	09/13/2017
	Jenny Goodman	Source material, Decommissioning	07/06/2018
Peros, Richard	Jenny Goodman	Med Institution WD req'd, Y-90 spheres	11/09/2015
	Ed Truskowski	Med Institution WD req'd	11/10/2016
	Ed Truskowski	Med Institution WD req'd, Y-90 spheres	10/05/2017
	Ed Truskowski	Med Institution WD req'd, Y-90 spheres, HDR	11/08/2018
Power, Joseph	Cathy Biel	Radio Pharmacy	07/31/2015
	Jack Tway	R & D other	04/29/2016
	Ed Truskowski	Broad Scope & R&D	08/02/2017
	James McCullough	Fixed & portable Gauges	10/18/2018
Stanley, Nancy	Rich Peros	Med Institution WD Req'd, HDR	02/19/2015
	Debbie Wenke	HDR	12/12/2016
	Debbie Wenke	Med Institution Limited Scope, WD Not Req'd	11/06/2017
	Debbie Wenke	HDR	12/07/2018
Truskowski, Ed	Rich Peros	Med Institution WD Req'd, HDR, RSRM, NSTS	12/07/2015
	Rich Peros	Med Institution WD req'd, Sr-90	11/22/2016
	Debbie Wenke	Med Private Pract. WD not req'd	10/10/2017
	Rich Peros	Med Institution WD Req'd, HDR, Medical therapy	09/12/2018

		Med Institution WD req'd, HDR, Med Therapy OET, Irradiator Self Shielded	
Wenke, Debbie	Nancy Stanley	Greater thean 10k Ci, RSRM	05/13/2015
	Karen Flanigan	Med Inst WD Reqd, HDR, RSRM, Sr-90	10/20/2016
	Cathy Biel	Med Private Pract. WD req'd	12/11/2017
	Jenny Goodman	Cardiology Cat 5	12/14/2018
Tway, Jack	Cathy Biel	Academic Type A Broad	03/25/2015
	Nancy Stanley	RSRM Pt 37/Hackensack Med	10/25/2016
	Cathy Biel	Irradiators, Other Greater then 10k Ci	04/16/2017
	Cathy Biel	Industrial Radiography	10/17/2018

*Nadia Akbar was temporarily reassigned in 2018.

Make	Model	serial #	issued to	inventory #	start date	sent out	cal due	invoice date
FLIR	Identifinder 2	910385-1288	R. Peros	145059	06/22/15		06/01/19	
FLIR	Identifinder 2	910385-1292	J. Tway	145060	06/22/15		06/01/19	
FLIR	Identifinder 2	910385-1294	C. Biel	145058	06/22/15		07/01/19	
FLIR	Identifinder 2	910385-1301	N. Stanley	145061	06/22/15		07/01/19	
FLIR	Identifinder 2	910385-1384	D. Wenke	145055	06/22/15		08/01/19	
FLIR	Identifinder 2	910385-1400	E. Truskowski	145054	06/22/15		08/01/19	
FLIR	Identifinder 2	910385-1401	J. McCullough	145056	06/22/15		09/01/19	
FLIR	Identifinder 2	910385-1415	J. Power	145053	06/22/15		09/01/19	
FLIR	Identifinder 2	910385-1422	K. Flanigan	145062	06/22/15		10/01/19	
FLIR	Identifinder 2	910385-1423	N. Akbar	145057	06/22/15		10/01/19	
FLIR	Identifinder 2	910385-1424	S. Adkisson	145063	06/22/15		10/01/19	
FLIR	radHUNTER	1021 66003926	RMP		06/22/15			
Thermo	Identifinder	04f3-2475	RMP	135144	03/12/16			
Thermo	Identifinder	04f3-2476	RMP	135146	03/11/16			
Thermo	Identifinder	04f3-2488	RMP	135145	04/22/16			
Ortec	Detective-EX	9905790-591						
Ortec	Docking Station	905790-736						
Ortec	Micro-Detective	16189012						
Canberra	InSpector 1000 NaI	8051299					no cal	
Canberra	InSpector 1000 neutron	12056295					no cal	
Canberra	InSpector 1000 NaI	8051300					no cal	
Canberra	InSpector 1000 neutron	5058178					no cal	
Exploranium	GR-135	3087	R. Peros	132134			no cal	
Exploranium	GR-130						no cal	
Thermo	identifinder HS-025-1	*2652-41*	was J. McCullough				*03/13/16*	
Thermo	identifinder HS-025-1	*2652-43*	was J. Power				*02/02/16*	
Thermo	identifinder HS-025-1	*2652-46*	was C. Biel				*06/24/15*	
Thermo	identifinder HS-025-1	*2652-51*	was RMP				*12/15/15*	
Ludlum K1	19	209762	D. Wenke	133448			07/06/19	7/12/18
Ludlum K1	17	208698	D. Wenke	133448			07/06/19	7/12/18
Ludlum K1	3	208097	D. Wenke	133448			07/06/19	7/12/18

Ludlum K1	44-9	214116	D. Wenke	133448			N/A	
Ludlum K1	44-38	215840	D. Wenke	133448			05/21/19	
Ludlum K2	19	209709	J Tway	133449			05/21/19	
Ludlum K2	17	205000	J Tway	133449			05/21/19	
Ludlum K2	3	208092	J Tway	133449			05/21/19	
Ludlum K2	44-9	214104	J Tway	133449			n/a	
Ludlum K2	44-38	215837	J Tway	133449			05/21/19	
Ludlum K3	19	209695	N Stanley	133446			05/03/2019	7/9/05
Ludlum K3	17	204994	N Stanley	133446			05/03/2019	7/9/05
Ludlum K3	3	208007	N Stanley	133446			05/03/2019	7/9/05
Ludlum K3	44-9	305088	N Stanley	133446			n/a	
Ludlum K3	44-38	215839	N Stanley	133446			05/03/2019	7/9/05
Ludlum K4	19	207428	R. Peros	133447			01/28/2020	2/6/18
Ludlum K4	17	208688	R. Peros	133447		01/22/19	02/02/2019	2/6/18
Ludlum K4	3	208082	R. Peros	133447			01/28/2020	2/6/18
Ludlum K4	44-9	214115	R. Peros	133447			not sent	
Ludlum K4	44-38	215816	R. Peros	133447			01/28/2020	
Ludlum K5	19	209756	J. McCullough	134111			06/22/2019	8/17/17
Ludlum K5	17	212096	J. McCullough	134111			06/21/2019	8/17/17
Ludlum K5	3	209001	J. McCullough	134111			06/21/2019	8/17/17
Ludlum K5	44-38	215815	J. McCullough	134111			06/21/2019	
Ludlum K5	44-9	222312	J. McCullough	134111			n/a	
Ludlum K6	19	207482	C. Biel	134112			02/13/2020	
Ludlum K6	17	212106	C. Biel	134112			02/13/2020	
Ludlum K6	3	209108	C. Biel	134112			02/13/2020	
Ludlum K6	44-9	222314	C. Biel	134112			N/A	
Ludlum K6	44-38	215831	C. Biel	134112			02/13/2020	
Ludlum K7	*See Retired Sheet*						N/A	
Ludlum K8	19	282767	K. Flanigan				10/26/2019	11/12/17
Ludlum K8	9-3	278498	K. Flanigan	139660			10/26/2019	11/12/17
Ludlum K8	3	284622	K. Flanigan	139659			10/06/2019	11/12/17
Ludlum K8	44-9	303158	K. Flanigan				N/A	
Ludlum K8	44-38	302318	K. Flanigan				N/A	
Ludlum K9	19	282772	RMP (was Dan R.)	139661			11/13/2019	11/12/17
Ludlum K9	9-3	277058	RMP (was Dan R.)	139662			11/13/2019	11/12/17
Ludlum K9	3	284740	RMP (was Dan R.)				11/13/2019	11/12/17
Ludlum K9	44-9	214082	RMP (was Dan R.)				N/A	
Ludlum K9	44-38	302324	RMP (was Dan R.)				N/A	
Ludlum K10	19	282793	E. Truskowski	139669			02/27/2020	

Ludlum K10	9-3	279937	E. Truskowski	139670			02/27/2020	
Ludlum K10	3	284450	E. Truskowski				02/27/2020	
Ludlum K10	44-9	305562	E. Truskowski				not sent	
Ludlum K10	44-38	302323	E. Truskowski				N/A	
Ludlum K11	19	282726	N. Akbar	139667			08/29/2019	8/30/18
Ludlum K11	9-3	279906	N. Akbar	139668			08/29/2019	8/30/18
Ludlum K11	3	284664	N. Akbar				08/29/2019	8/30/18
Ludlum K11	44-9	303159	N. Akbar			not sent	not sent	
Ludlum K11	44-38	302296	N. Akbar				N/A	
Ludlum K12	19	282779	S. Adkisson	139665			11/13/2019	11/12/17
Ludlum K12	9-3	279913	S. Adkisson	139666			11/13/2019	11/12/17
Ludlum K12	3	284539	S. Adkisson				11/13/2019	11/12/17
Ludlum K12	44-9	303798	S. Adkisson				not sent	
Ludlum K12	44-38	302325	S. Adkisson				N/A	
Ludlum K13	19	282742	J. Power	139663			09/20/2019	10/8/17
Ludlum K13	9-3	278505	J. Power	139664			09/20/2019	10/8/17
Ludlum K13	3	284725	J. Power				09/20/2019	10/8/17
Ludlum K13	44-9	303788	J. Power				not sent	
Ludlum K13	44-38	302301	J. Power				N/A	
Thermo K1	FH40GL Multipurpose	16903	S. Adkisson	135140			10/22/19	
Thermo K1	FH40GL Multipurpose	16213	S. Adkisson	135140			10/22/19	
Thermo K1	FHT-752SH He-3 Neutron	192	S. Adkisson	135140			10/22/19	
Thermo K1	FHZ-732GM Pancake	1258	S. Adkisson	135140			10/22/19	
Thermo K1	Teleprobe 13'	546	S. Adkisson	135140			NA	
Thermo K1	FHZ-612 Hi-range Gamma	526	S. Adkisson	135140			10/23/19	
Thermo K2	FH40GL Multipurpose	16890	J. Tway	135141			05/22/19	
Thermo K2	FH40GL Multipurpose	16217	J. Tway	135141			05/22/19	
Thermo K2	FHT-752SH He-3 Neutron	190	J. Tway	135141			05/22/19	
Thermo K2	FHZ-732GM Pancake	1256	J. Tway	135141			05/22/19	
Thermo K2	Teleprobe 13'	542	J. Tway	135141			05/22/19	
Thermo K2	FHZ-612 Hi-range Gamma	523	J. Tway	135141			05/22/19	
Thermo K3	FH40GL Multipurpose	16209	D. Wenke	135142			03/12/19	
Thermo K3	FH40GL Multipurpose	16216	D. Wenke	135142			03/12/19	
Thermo K3	FHT-752SH He-3 Neutron	193	D. Wenke	135142			03/12/19	
Thermo K3	FHZ-732GM Pancake	1709	D. Wenke	135142			03/12/19	
Thermo K3	FHZ512A NaI Micro-R	558	D. Wenke	135142			03/12/19	
Thermo K3	Teleprobe 13'	545	D. Wenke	135142			N/A	
Thermo K3	FHZ-612 Hi-range Gamma	524	D. Wenke	135142			03/12/19	
Thermo K4	FH40GL Multipurpose	16214	RMP (was Dan R.)	135143			10/22/19	
Thermo K4	FH40GL Multipurpose	16215	RMP (was Dan R.)	135143			10/22/19	

Thermo K4	FHT-752SH He-3 Neutron	189	RMP (was Dan R.)	135143			10/22/19	
Thermo K4	FHZ512A NaI Micro-R	555	RMP (was Dan R.)	135143			10/23/19	
Thermo K4	Teleprobe 13'	528	RMP (was Dan R.)	135143			NA	
Thermo K4	FHZ-612 Hi-range Gamma	517	RMP (was Dan R.)	135143			10/23/19	
Thermo K5	FH40GL Multipurpose	18058	K. Flanigan	None			04/19/19	
Thermo K5	FHT-752SH He-3 Neutron	281	K. Flanigan	None			04/19/19	
Thermo K5	FHZ-732GM Pancake	1697	K. Flanigan	None			04/19/19	
Thermo K5	FHZ512A NaI Micro-R	728	K. Flanigan	None			04/19/19	
Thermo K5	Teleprobe 13'	883	K. Flanigan	None			N/A	
Thermo K5	FHZ-612 Hi-range Gamma	747	K. Flanigan	None			04/19/19	
Thermo K5	FHZ-672 Blue Scintillator	372	K. Flanigan	None			04/19/19	
Thermo K5	FHZ-380 AB Alpha Scint	379	K. Flanigan	None			04/19/19	
Thermo K6	FH40GL Multipurpose	18057	J. McCullough	None			02/22/20	
Thermo K6	FHT-752SH He-3 Neutron	282	J. McCullough	None			02/22/20	
Thermo K6	FHZ-732GM Pancake	1683	J. McCullough	None			02/22/20	
Thermo K6	FHZ512A NaI Micro-R	727	J. McCullough	None			02/22/20	
Thermo K6	Teleprobe 13'	897	J. McCullough	None			02/22/20	
Thermo K6	FHZ-612 Hi-range Gamma	755	J. McCullough	None			02/22/20	
Thermo K6	FHZ-672 Blue Scintillator	382	J. McCullough	None			02/22/20	
Thermo K6	FHZ-380 AB Alpha Scint	376	J. McCullough	None			02/22/20	
Thermo K7	FH40GL Multipurpose	18054	J. Power	?			02/13/20	
Thermo K7	FHT-752SH He-3 Neutron	287	J. Power	?			02/13/20	
Thermo K7	FHZ-732GM Pancake	1710	J. Power	?			02/13/20	
Thermo K7	FHZ512A NaI Micro-R	721	J. Power	?			02/13/20	
Thermo K7	Teleprobe 13'	906	J. Power	?			02/13/20	
Thermo K7	FHZ-612 Hi-range Gamma	756	J. Power	?			02/19/20	
Thermo K7	FHZ-672 Blue Scintillator	383	J. Power	?			02/13/20	
Thermo K7	FHZ-380 AB Alpha Scint	375	J. Power	?			02/13/20	
Thermo K8	FH40GL Multipurpose	18056	C. Biel	?			06/26/19	
Thermo K8	FHT-752SH He-3 Neutron	286	C. Biel	?			06/26/19	
Thermo K8	FHZ-732GM Pancake	1704	C. Biel	?			06/26/19	
Thermo K8	FHZ512A NaI Micro-R	734	C. Biel	?			06/26/19	
Thermo K8	Teleprobe 13'	905	C. Biel	?			06/26/19	
Thermo K8	FHZ-612 Hi-range Gamma	753	C. Biel	?			06/26/19	
Thermo K8	FHZ-672 Blue Scintillator	381	C. Biel	?			06/26/19	
Thermo K8	FHZ-380 AB Alpha Scint	377	C. Biel	?			06/26/19	
Thermo K9	FH40GL Multipurpose	18015	R. Peros	?			07/25/19	
Thermo K9	FHT-752SH He-3 Neutron	288	R. Peros	?			07/25/19	

Thermo K9	FHZ-732GM Pancake	1693	R. Peros	?			07/25/19	
Thermo K9	FHZ512A NaI Micro-R	732	R. Peros	?			07/25/19	
Thermo K9	Teleprobe 13'	910	R. Peros	?			07/25/19	
Thermo K9	FHZ-612 Hi-range Gamma	759	R. Peros	?			07/26/19	
Thermo K9	FHZ-672 Blue Scintillator	373	R. Peros	?			07/25/19	
Thermo K9	FHZ-380 AB Alpha Scint	378	R. Peros	?			07/25/19	
Thermo K10	FH40GL Multipurpose	18055	N. Akbar	?			08/15/19	8/21/18
Thermo K10	FHT-752SH He-3 Neutron	283	N. Akbar	?			08/15/19	8/21/18
Thermo K10	FHZ512A NaI Micro-R	729	N. Akbar	?			08/16/19	8/21/18
Thermo K10	Teleprobe 13'	878	N. Akbar	?			N/A	
Thermo K10	FHZ-612 Hi-range Gamma	751	N. Akbar	?			08/16/19	8/21/18
Thermo K10	FHZ-672 Blue Scintillator	374	N. Akbar	?			08/16/19	8/21/18
Thermo K10	FHZ-380 AB Alpha Scint	381	N. Akbar	?			08/15/19	8/21/18
Thermo K11	FH40GL Multipurpose	18017	E. Truskowski	?			08/03/19	
Thermo K11	FHT-752SH He-3 Neutron	285	E. Truskowski	?			08/03/19	
Thermo K11	FHZ-732GM Pancake	1694	E. Truskowski	?			08/03/19	
Thermo K11	FHZ512A NaI Micro-R	731	E. Truskowski	?			08/03/19	
Thermo K11	Teleprobe 13'	907	E. Truskowski	?			08/06/19	
Thermo K11	FHZ-612 Hi-range Gamma	752	E. Truskowski	?			08/06/19	
Thermo K11	FHZ-672 Blue Scintillator	380	E. Truskowski	?			08/03/19	
Thermo K11	FHZ-380 AB Alpha Scint	382	E. Truskowski	?			08/03/19	
Thermo K12	FH40GL Multipurpose	18019	N. Stanley	?			09/06/2019	
Thermo K12	FHT-752SH He-3 Neutron	280	N. Stanley	?			09/06/2019	
Thermo K12	FHZ-732GM Pancake	1699	N. Stanley	?			09/06/2019	
Thermo K12	FHZ512A NaI Micro-R	733	N. Stanley	?			09/06/2019	
Thermo K12	Teleprobe 13'	886	N. Stanley	?			09/06/2019	
Thermo K12	FHZ-612 Hi-range Gamma	750	N. Stanley	?			09/06/2019	
Thermo K12	FHZ-672 Blue Scintillator	375	N. Stanley	?			09/06/2019	
Thermo K12	FHZ-380 AB Alpha Scint	383	N. Stanley	?			09/06/2019	
Ludlum	19 (Ra-226)	78902	REAS - J. McCullough				10/22/2019	
Ludlum	19 (Ra-226)	78911	REAS - J. McCullough				06/22/2019	8/17/17
Ludlum	19 (Ra-226)	43891	REAS - J. McCullough				02/25/2020	12/14/17
Ludlum	19 (Ra-226)	78910	Belongs to NJGS, BER calibrates				12/11/2018	12/14/17
Ludlum	2221	313979	REAS - J. McCullough				02/21/2020	12/14/17
Ludlum	44-20	PR352079	REAS - J. McCullough				02/21/2020	
Ludlum	2360	307106	REAS - J. McCullough				02/21/2020	12/14/17

Ludlum	43-93	PR351864	REAS - J. McCullough				02/21/2020	
NDS Products	ND-2000	81744	Industrial Section -				01/17/2020	
NDS Products	ND-2000	81745	Industrial Section - Jack				01/07/2020	
NDS Products	ND-2000	81746	Industrial Section - SA				01/07/2020	
NDS Products	ND-2000	81747	Industrial Section - CB				01/17/2020	
Ludlum	9DP - ion chamber	25010909					11/15/2019	10/9/17
Ludlum	9DP - ion chamber	25010946	S. Adkisson				11/13/2019	10/9/17
Ludlum	9DP - ion chamber	25010956	D. Wenke 11/7/2018				09/11/2019	10/8/17
Victoreen	450P	1826	R. Peros	120217			12/17/2019	12/14/17
Ludlum	77-6	92865	R. Peros	119754			07/27/2019	8/7/18
Thermo	RadEye PRD NYPD	2230					03/01/2020	
Thermo	RadEye PRD NYPD	2825	J. McCullough				03/01/2020	
Thermo	RadEye PRD NYPD	5323					03/01/2020	
Thermo	RadEye PRD NYPD	3032					03/01/2020	
Thermo	RadEye PRD NYPD	3051					03/01/2020	
Thermo	RadEye PRD NYPD	30640					03/01/2020	
Thermo	RadEye PRD NYPD	3235					03/01/2020	
Thermo	*See Replaced-Lost Sheet*						NA	
SAIC	PD 10i γ dosimeter	22 units					07/12/2019	
ArrowTech	200 mR W138	KC 224275					07/12/2019	
ArrowTech	200 mR W138	KC 224274					07/12/2019	
ArrowTech	200 mR W138	KC 224272					07/12/2019	
ArrowTech	200 mR W138	KC 224273					07/12/2019	
Ludlum	26-1 (pancake)	PF006458	S. Adkisson				08/21/2019	8/26/18
Ludlum	26-1 (pancake)	PF006497	J. Tway				08/27/2019	8/29/18
Ludlum	26-1 (pancake)	PF006498	D. Wenke				02/11/2020	
Ludlum	26-1 (pancake)	PF009248	E. Truskowski				02/25/20	
Ludlum	26-1 (pancake)	PF009417	R. Peros				02/25/20	
Ludlum	26-1 (pancake)	PF009508	K. Flanigan				02/25/20	
Ludlum	26-1 (pancake)	PF009533	C. Biel				02/25/20	
Ludlum	26-1 (pancake)	PF009330	J. McCullough				02/25/20	
Ludlum	26-1 (pancake)	PF009384	N. Stanley				02/25/20	
Ludlum	26-1 (pancake)	PF009491	J. Power				02/11/20	

notes	Todays Date: 03/13/2019
do not require annual calibration; we have a 5-yr warranty.	
Stored next to ORTECs (in pelican case); NJDEP Tag E000032900	
No repair contract for FLIR for FY16 because we have new identiFINDERs. These don't have neutron detectors	
Ametek had it for 4 months.	
Sent new power adaptor! 2014	
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	
Feb-2014 neutron detector defective, RMP decided not to repair, don't give this one to BER	
required repairs in 2014	
FY2019 PO #: 8635979	

Required repairs in Texas. Received back from calibration, but beta shield won't open. Returned to calibration facility for repair on 2/15/19.

Kits 1-4 have a square pelican case and a teleprobe case

repaired in Jan '19
Kits 5-12 have a giant pelican case and a teleprobe case
Cal dates varied by a few days, earliest is due 4/19/19
Cal date 4/20/18
Cal date 4/23/18
Cal date 4/20/18
Had been returned in 2017 without the cable. Cable was mailed.
repaired in 2017
Blue tension screw repaired in 2017 (had been received broken)

* Ask NJGS for their instrument if it still needs calibration.
RMP is paying for calibration and mail for calibration. James spoke with Steve Spayd 3/6/19. They aren't using it much
Scaler/Ratemeter
3" NaI
Datalogger

Alpha/Beta
Replaced battery holder 6/4/18
recharge battery before ship to calibration ; to be repaired 10/30/18
recharge battery before ship to calibration; to be repaired 10/30/18
recharge battery before ship to calibration
found in vehicle under seat 2/15/19. returned to instrument room. (jm)
JM signed out 3/23/18
JM returned 11/1/18
Lost 9/8/2016; found 9/4/2018

not used
pen dosimeters
pen dosimeters
pen dosimeters
pen dosimeters
send to Applied HP
send to Applied HP
send to Applied HP
send to Applied HP; calibrated in CPM
send to Applied HP; calibrated in CPM
send to Applied HP; calibrated in CPM
send to Applied HP; calibrated in CPM
send to Applied HP; calibrated in CPM
send to Applied HP; calibrated in CPM
send to Applied HP

Make	Model	serial #	issued to	inventory #	start date	sent out	cal due	invoice date	notes
Ludlum K7	19	91561	retired!				06/22/2012		retired!
Ludlum K7	17	40514	retired!				06/22/2012		retired!
Ludlum K7	14C	128964	retired!				06/22/2012		retired!
Ludlum K7	44-9	131867	retired!				06/22/2012		retired!
Ludlum K7	HP270	10295	retired!				06/22/2012		retired!

Make	Model	serial #	issued to	inventory #	start date	sent out	cal due	invoice date
Thermo	RadEye PRD NYPD	3197					NA	

notes
replaced