

INTEGRATED MATERIALS PERFORMANCE EVALUATION PROGRAM
QUESTIONNAIRE

Maryland IMPEP Reporting Period: November 7, 2015 – June 5, 2021

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.

The 2015 IMPEP had two open recommendations:

(1) Technical Staffing and Training – The licensing training program did not contain all the essential elements to be fully compatible with NRC Inspection Manual Chapter 1248. During February 2016, the licensing supervisor revised the Maryland Licensing Procedure which incorporated the essential elements of the individual self-study guides, on the job training modules, and defined minimum training and specialized training requirements. These were incorporated into qualification journals for the license reviewers.

(2) Technical Quality of Licensing Actions – The review team found inconsistencies between licensing actions with the same codes and proof-reading errors. The licensing supervisor initiated a proof-reading checklist and in January 2017 started a root cause review of condition errors in the same type of licenses. The review involved taking the licenses under the same code and developing a spreadsheet of the existing conditions. Common templates were developed for the six most common licenses. The proof-reading checklist and use of the common templates were discussed at a September 20, 2017 staff meeting. In 2019, a formal procedure was established for quality control incorporating this practice.

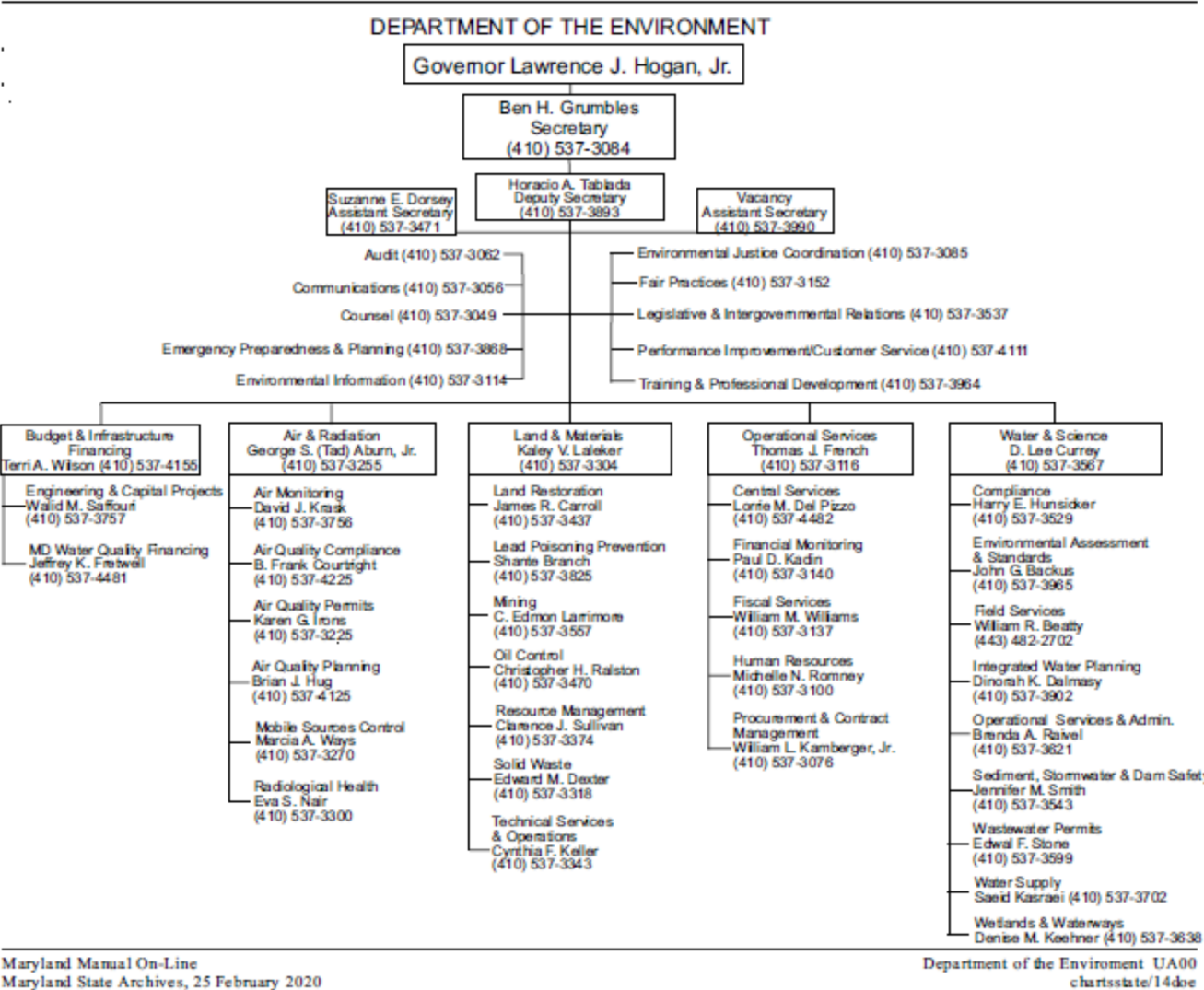
B. COMMON PERFORMANCE INDICATORS

I. Technical Staffing and Training

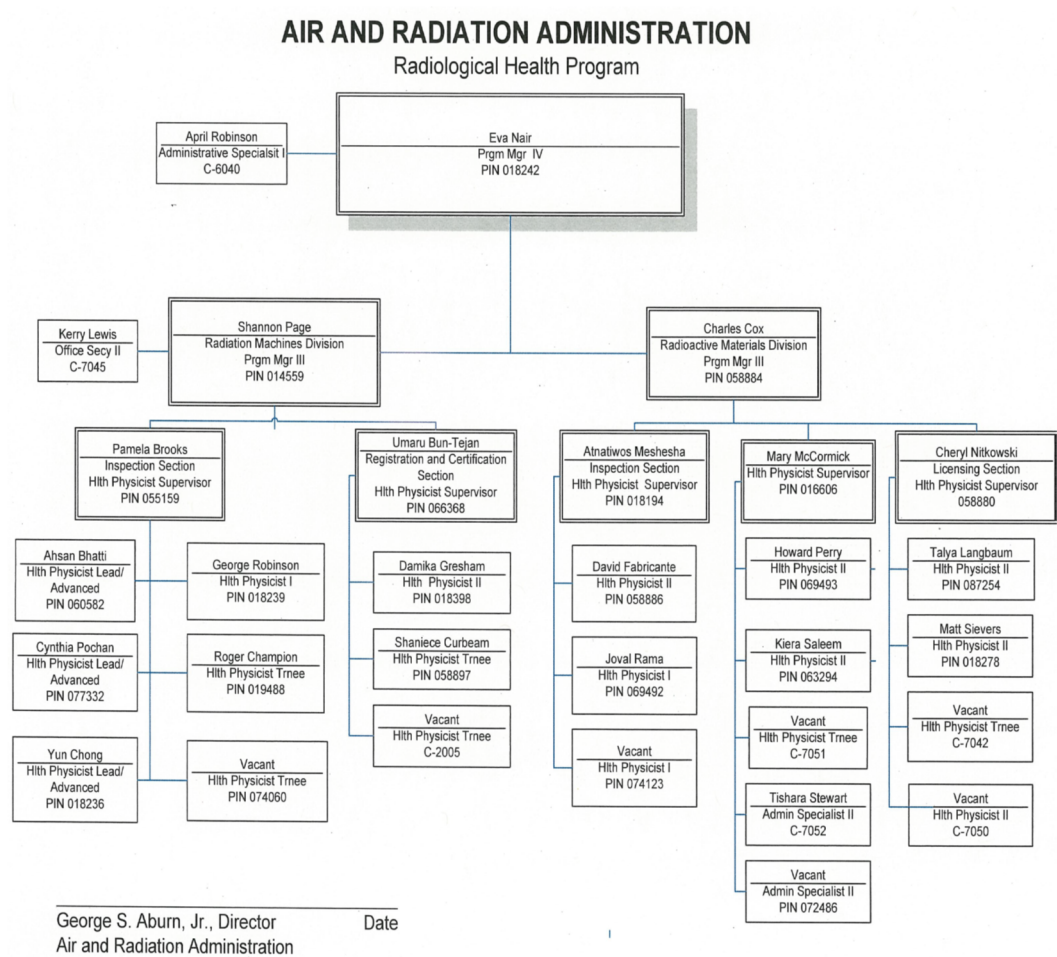
2. Please provide the following organization charts, including names and positions:

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.

(a) A chart showing positions from the Governor down to the Radiation Control Program Director;



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



- (c) Equivalent charts for sealed source and device evaluation, low-level radioactive waste and uranium recovery programs, if applicable.

SEALED SOURCE AND DEVICE REVIEW		
Name	Title	Signature Authority
Cheryl Nitkowski	Section Head, Licensing	Full
Talya Langbaum	HP II	None
Matthew Sievers	HP II	None

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, include their efforts. The table heading should be:

NAME	POSITION	AREA OF EFFORT	FTE%
Charles Cox	Chief, Radioactive Materials Division	Administration	60
		Radioactive Materials	30
		Emergency Response	10
Cheryl Nitkowski	Section Head, Radioactive Materials Licensing	Administration	10
		Radioactive Materials	85
		Emergency Response	5
Atnatiwos Meshesha	Section Head, Radioactive Materials Inspection	Administration	20
		Radioactive Materials	75
		Emergency Response	5
Talya Langbaum	Health Physicist II-License Reviewer	Administration	5
		Radioactive Materials	90
		Emergency Response	5
Matthew Sievers	Health Physicist II-License Reviewer	Administration	5
		Radioactive Materials	90
		Emergency Response	5
David Fabricante	Health Physicist II – Inspector	Administration	5
		Radioactive Materials	90
		Emergency Response	5
Joal Rama	Health Physicist I – Inspector	Administration	5
		Radioactive Materials	90
		Emergency Response	5
Tishara Stewart	Administrative Specialist II	Administration	10
		Radioactive Materials	70
		Emergency Response	5
Mary McCormick	Section Head, Technical Planning	Administration	20
		Radioactive Materials	30
		Emergency Response	5
Roger Champion	Health Physicist Trainee-Technical Planning	Administration	0
		Radioactive Materials	5
		Emergency Response	5

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.

Name	Date of Hire	Degree	Additional Training	Years of Experience
Atnatiwos Meshesha	September 2016- Licensing March 2017 - Inspection	MS Radiation Safety & Environmental Protection	1. NRC G-108 Inspection Procedures, March 06-10, 2017, 2. NRC G-109 Licensing Practice and Procedures, March 13-17, 2017, 3. NRC H-119 Air Sampling for Radioactive Materials, April 30 – May 4, 2018, 4. DOE - Radiation Specialist class April 29-May 3, 2019, College Park, Maryland 5. Applied Radiation Physics, Graduate Certificate Program, 2015/16, University of Washington, Seattle, USA. 6. IAEA- C7-RAF-9.35- Post Graduate educational course in radiation protection and safety of Radiation, 2000, Johannesburg, Witwatersrand University, South Africa 7. KINS-2009-TC- Training course on Safety and Regulation on radioactive sources and nuclear power plants, May 4-15, 2009 8. Participated in many IAEA radiation safety and physical security training, technical meetings, and IAEA advisory missions.	20
Umaru Bun-Tejan	April 2018	MS Nuclear and Quantum Engineering	1. NRC-G-109 Licensing Practice and Procedures, November 13-16, 2018, 2. NRC-G-108 Inspection	12

			<p>Procedures, March 3-8, 2019,</p> <p>3. NRC-H-122S Fundamental Health Physics Self-Study, July 25, 2018,</p> <p>4. IAEA- C7-RAF-9.35-009/11- Post Graduate educational course in radiation protection and safety of radiation sources, (radiation , transport and waste safety), University of Ghana, Accra Ghana, November 4 2013 - April 3 2014.</p> <p>5. IAEA-SIL/9/003 Fellowship in the field of regulatory infrastructure and nuclear safety, (Developing a National Regulatory Infrastructure and Occupational exposure control program,) May 3 - August 3, 2010,</p> <p>6. IAEA-C7-RAF-9.038-004/09- Training course for regulators on authorization and Inspection of radiation sources, October 5-30, 2009.</p> <p>7. IAEA-C7-RAF-9.041-013/11- Training course on physical protection of radioactive sources, May 23-27, 2011</p> <p>8. IAEA-C7-RAF/0/026-012/12- Training course for trainers in the use of ICT materials in radiation protection, February 20-24, 2012</p> <p>9. IAEA-C7-RAF-9.047-001/12- Training course on public communications in radiation emergencies, June 22-29, 2012</p> <p>10. World Nuclear University School on radiation technologies, May 13-June 1</p>	
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			<p>2012.</p> <p>11. USA-DOE and GTRI- Training on Search and Secure Operations of Radioactive sources, August 27-31, 2012,</p> <p>12. KINS-2012-TC-220- Training Course on emergency preparedness and environmental Monitoring, September 17-28 2012</p> <p>13. KINS-2012-TC-243- Training course on Safety and Regulation on radioactive sources and nuclear power plants, November 5-16, 2012</p> <p>14. IAEA- US DOE- Emergency preparedness and response to Major public events August 11-15, 2014</p> <p>15. FEMA-IS-00003 Radiological emergency management, March 26,2020</p> <p>16. Attended many IAEA meetings on radiation protection and safety of radiation sources, and on radiological and nuclear emergency prepared and response as project counterparts.</p>	
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David Fabricante	July 2019	Vocational Certificate in Civil Engineering and Architectural Drafting	<p>1. Previous DOE Core Qualifications for Radiation Controls Inspector/ Technician at Fernald Site, Ohio, Savannah river Site, South Carolina, And Portsmouth Site, Ohio, and FUSRAP in Middlesex, NJ</p> <p>2 G-108 Inspection Procedures October 21-25 2019</p> <p>3. H-313 Brachytherapy Gamma knife, and other medical uses. January 13-17 2020</p> <p>4. H-304 Diagnostic and Therapeutic Medicines July 27-31 2020</p> <p>5. H-305 Safety Aspects of Industrial Radiography March 15-19 2021</p> <p>6. FEMA IS-00100.C Basics Incident Command System June 26, 2019</p> <p>7. FEMA IS-00200.C Incident Command System Initial Response June 6, 2019</p> <p>8. FEMA IS-00003 Radiological Emergency Management November 4, 2019</p> <p>9. The Following Communication Training Workshops Offered by National Nuclear Security Administration Office of Nuclear Incident Policy and Cooperation</p> <p>10, Canned Messages and Developing Key Messages November 9,2020</p>	18
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			<p>11. Communication Strategies, Right Information to the right people at the right time December 3, 2020</p> <p>12. Joint Information System and JIS Methodology and Strategy December 10, 2020</p> <p>13. Basic Radiation Safety and Application Principles January 5,2021</p> <p>14. Radiation/Nuclear in the public Consciousness and Communication Complexities January 7, 2021</p>	
Talya Langbaum	January 2020	BS Physics	<p>1. H-117 Intro to Health Physics</p> <p>2. RASCAL/URI & emergency response</p> <p>3. H-122S Fundamental Health Physics (self study)</p> <p>4. H-304 Diagnostic and Therapeutic Nuclear Medicine</p> <p>5. G-116 Sealed Source and Device Evaluation Workshop</p> <p>6. Basic radiation safety training</p> <p>7. Various on the job training (license rev. XRF, portable gauges, medical, HDR, fixed gauge)</p> <p>8. G-109 Licensing Procedures</p> <p>9. H-313 Brachy, Gamma Knife and other Medical Uses</p>	9

Clay Nuquist	January 2016	BS Radiological Sciences and Administration	1. H-201 Advanced Health Physics 2. S-201 NRC Materials Control & Security 3. H-305 Safety Aspects of Industrial Radiography 4. H-308 Brachytherapy, Gamma Knife and Emerging Technologies 5. NRC – Gathering Information for Inspectors Through Interviews 6. NRC- Performance Based Inspections 7. NRC Math Refresher FEMA IS-100B and & 700A	25 Years CNMT 3 years Materials Inspector
Joval Rama	March 2020	MS Medical Physicist	1. G-108 Inspection Procedures 2. H-304 Diagnostic and Therapeutic Medicine 3. H-122S Fundamental Health Physics Self-Study 4. FEMA IS-200.c Basic Incident Command System for Initial Response 5. FEMA-00003 Radiological Emergency Management 6. IS-00100.c Introduction to Incident Command System 7. APNGA Portable Nuclear Gauge Safety and DOT HAZMAT Certification Class 8. APNGA Nuclear Portable Gauge Radiation Safety Officer Class H-313 Brachytherapy, Gamma Knife and Other Medical Uses	9
Roger Champion	March 2020	BS Nuclear Engineering and Radiological Sciences	1. H-122S Fundamental Health Physics Self-Study Course	3

			2. H-305 Industrial Radiography 3. H-304 Diagnostic and Therapeutic Nuclear Medicine 4. G-108 Inspection Procedures 5. FEMA IS-3 Radiological Emergency Management 6. FEMA IS-100 Introduction to Incident Command System 7. FEMA IS-200 Basic Incident Command System for Initial Response 8. FEMA IS-700 Introduction to National Incident Management System 9. FEMA IS-800 National Response Framework, An Introduction	
Andrei Belousov	May 2020	MS Nuclear Engineering	1. H-122S Health Physics 2. H-121S MARSSIM 3. H-312S Internal Dosimetry 4. H-308S Transportation 5. H-301S Statistics SS&D Workshop (virtual) 6. H-120S MARSSAM	20 Nuclear Engineer
Matthew Sievers	March 2021	BA Biology	1. H-117 Introductory Health Physics (June 20, 2019) 2. RASCAL Training (in-class, King of Prussia) (April 22-23, 2019) 3. URI RASCAL Training (in-class, Coatsville) (May 14, 2019) 4. FEMA IS-00003 Radiological Emergency Managment (April 10, 2020) 5. FEMA IS-00100.c Introduction to Incident	2.5

			Command System, ICS-100 (May 27, 2020) 6. FEMA IS-00200.c Basic Incident Command System for Initial Response (August 11, 2020) 7. H-122S Fundamental Health Physics Self-Study Course (April 2, 2021)	
Mary McCormick	April 2020	BS Radiological Sciences, MS Health Sciences Educ., PhD Education	FEMA: IS 003 - 4/16/18 IS 100.b - 4/23/18 IS 200.b - 5/12/18 IS 400.a - 4/25/18	30

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.

Name	Training Needed	Tentative Date
David Fabricante	NRC Minimum Training	As Available
Talya Langbaum	NRC Minimum Training	As Available
Joal Rama	NRC Minimum Training	As Available
Roger Champion	NRC Minimum Training	As Available
Matthew Sievers	NRC Minimum Training	As Available

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

In February 2016, the qualification and training procedure was revised to address previous IMPEP recommendations to incorporate IMC 1248 Appendices A & B. Matched NRC minimum training and adopted the ISAs and OJTs (see response to Question 1).

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

Name	Position	Vacate Date
Raymond Manley	Chief, Radioactive Materials	October 2016
Kenneth Brenneman	Health Physicist III	January 2016
Roland Fletcher	Radiological Health Program Manager	March 2017
Alan Jacobson	Chief, Radioactive Materials	February 2018
Clay Nuquist	Health Physicist III	December 2018
Nathaniel Owrutsky	Health Physicist III	May 2019
James Lewis	Environmental Program Manager I	July 2019
Alan Goldey	Health Physicist Supervisor	December 2019
Michael Kurman	Health Physicist Supervisor	December 2019

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.

A hard hiring freeze was in effect for an extended period. The freeze has been partially lifted recently, and, as a result, two exceptions to hire were sought from the Maryland Department of Budget and Management that is authorized to grant such exceptions. Hiring exceptions for C-7050 and PIN 074123 were approved on June 8, 2021. The hiring process to fill these two positions should be completed by the end of August 2021.

Vacant Position	Time Vacant	Effort to Fill Vacancy
RAM License Reviewer C7050	Since May 13, 2020	Approved June 8, 2021
RAM License Reviewer C7042	Since May 19, 2020	In ARA Director's Office
RAM Inspector PIN 074123	March 3, 2020	Approved June 8, 2021

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. **Yes.**
The Radiation Control Advisory Board.
Established under the Maryland Code, Environment Article Title 8-Radiation
Subtitle 2-Radiation Control Advisory Board
Section 8-201-Board established.
Information for potential conflict is found under the General Provisions Article
Title 5 – MD Public Ethics Law, Subtitle 5 Conflicts of Interest

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.

11/7/2015 – 6/1/2021 - Total – 372 (this number will change) re-inspections (excluding CAT 1&2 security inspections)

Priority 1 – 13 inspections

Priority 2 – 124 inspections

Priority 3 – 235 inspections

Initials (P1, P2, P3) – 50

11/7/2015 – 12/2015 – 4 inspections *

1/2016 - 12/2016 - 69 inspections

1/2017 – 12/2017 – 76 inspections

1/2018 – 12/2018 – 59 inspections

1/2019 – 12/2019 – 54 inspections

1/2020 – 12/2020 - 66 inspections

1/1/2021 - 6/1/2021 – 44 inspections

Initial Inspections total – 50 (P1 to P5)**

11/7/2015 – 12/2015 – 3 inspection

1/2016 - 12/2016 – 9 inspections

1/2017 – 12/2017 – 6

1/2018 – 12/2018 – 7 inspections

1/2019 – 12/2019 – 8 inspections

1/2020 – 12/2020 – 8 inspections

1/2021 to 6/1/2021 – 9 inspections

*** No Pri 1 or 2 done after Nov 2015 IMPEP**

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.

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 or license issuance date, if initial inspection

(5) Date Due

(6) Date Performed

(7) Amount of Time Overdue

(8) Date inspection findings issued

Licensee Name	Licensee Number	Priority (IMC 2800)	Last inspection date or license issuance date, if initial inspection	Date Due	Date Performed	Amount of Time Overdue Days	Date inspection findings issued
Team Industrial	MD-15-017-01	1	11/1/2017	11/1/2018	12/11/2019	405	12/11/2019
Maryland QC Laboratories, Inc.	MD-25-022-01	1	11/5/2017 & 11/29/2017	11/5/2018	12/10/2019	400	12/10/2019
Mistras Group, Inc.	MD-05-218-01	1	11/15/2017	11/15/2018	12/12/2019	392	12/12/2019
Inova Health Care Patuxent	MD-09-009-01	3	1/28/2011	1/28/2014	9/25/2018	1701	9/25/2018
JPC Nuclear Technologies	MD-29-005-01	3	8/8/2014	8/8/2017	11/13/2019	827	11/13/2019
Siemens Medical Solutions USA, Inc	MD-31-392-01	3	8/10/2015	8/10/2018	2/23/2021	928	6/1/2021
CQI Home Inspections	MD-37-019-01	5	8/31/2017	8/31/2018	3/24/2021 (followup)	936	*

*CQI Home Inspections is an initial inspection. The Maryland Radiological Health Program (RHP) was not notified that the licensee had acquired the lead paint analyzer until March 2021. RHP attempted to contact the licensee in 2019 but was unsuccessful. Due to the COVID-19 pandemic, the RHP was not able to conduct inspections at individuals home sites.

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.

No current priority 1, 2, or 3 inspections are overdue.
No initial inspections are currently overdue.
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.

Year	Candidates for Inspection (Pool)	Number of Reciprocity Inspections
2015	4	2
2016	23	9
2017	17	4
2018	24	4
2019	24	2
2020	23	5
2021	18	1

III. Technical Quality of Inspections

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

The Inspector Qualification Procedure was modified in February 2016 at the same time as the License Reviewer Qualification Procedure (see response to Question 1) for a matter of consistency, not as a response to a recommendation. Also, as noted in the response to Question 1, a Quality Assurance Procedure was developed for both Licensing and Inspection in 2020. The inspection portion requires generation of quarterly statistics reports on reciprocity inspections and Priority 1,2, 3 overdue inspections to ensure the Program is made aware of any slippage and can institute measures in a timely manner to allow the IMPEP metrics to be met.

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

Inspector	Supervisor	License Category	Date
Clay Nuquist	Alan Jacobson	02200	12/02/2016
Alan Goldey	Alan Jacobson	03225	12/15/2016
Alan Goldey	Alan Jacobson	03521	1/12/2016
Clay Nuquist	Alan Goldey	02200	08/31/2017
Clay Nuquist	Alan Goldey	02110	2/15/2018
Atna Meshesha	Alan Goldey	03121	3/31/2017
Atna Meshesha	Alan Goldey	03121	4/10/2017
Atna Meshesha	Alan Goldey	02201	10/11/2017
Atna Meshesha	Alan Goldey	02302	11/3/2017
Atna Meshesha	Alan Goldey	02302	12/12/2017
Atna Meshesha	Alan Goldey	03320	11/28/2017
Atna Meshesha	Alan Goldey	03320	12/5/2017
Atna Meshesha	Alan Goldey	02304	3/5/2019
Atna Meshesha	Alan Goldey	02305	5/15/2018
Atna Meshesha	Charlie Cox	02302	6/2/2021
David Fabricante	Alan Goldey	03121	8/5/2019
David Fabricante	Atna Meshesha	02201	9/30/2019
David Fabricante	Atna Meshesha	02201	10/2/2019
David Fabricante	Atna Meshesha	02120	10/4/2019
David Fabricante	Atna Meshesha	03620	11/7/2019

David Fabricante	Atna Meshesha	03521	6/15/2020
David Fabricante	Atna Meshesha	03521	6/19/2020
David Fabricante	Atna Meshesha	03124	10/16/2019
David Fabricante	Atna Meshesha	03225	6/17/2020
David Fabricante	Atna Meshesha	03232	7/7/2020
David Fabricante	Atna Meshesha	03232	7/17/2020
David Fabricante	Atna Meshesha	03232	9/30/2020
David Fabricante	Atna Meshesha	03511	10/16&17/2019
David Fabricante	Atna Meshesha	02305	6/26/2020
David Fabricante	Atna Meshesha	02110	2/14/2020
David Fabricante	Atna Meshesha	02302	10/1/2019
David Fabricante	Atna Meshesha	02302	4/5/2021
Joal Rama	Atna Meshesha	03121	8/11/2020
Joal Rama	Atna Meshesha	03121	8/14/2020
Joal Rama	Atna Meshesha	03121	8/21/2020
Joal Rama	Atna Meshesha	03120	3/4/2021
Joal Rama	Atna Meshesha	02201	2/10/2021
Joal Rama	Atna Meshesha	02120	12/2/2020
Joal Rama	Atna Meshesha	02120	12/10/2020
Joal Rama	Atna Meshesha	02120	1/22/2021
Joal Rama	Atna Meshesha	02120	2/23/2021
Joal Rama	Atna Meshesha	02200	3/12/2021
Joal Rama	Atna Meshesha	02301	8/18/2020
Joal Rama	Atna Meshesha	02302	3/9/2021
Joal Rama	Atna Meshesha	02302	10/13/2020
Joal Rama	Atna Meshesha	02302	10/15/2020
Joal Rama	Atna Meshesha	02302	12/15/2020
Joal Rama	Atna Meshesha	03320	12/17/2020
Joal Rama	Atna Meshesha	03320	12/18/2020
Joal Rama	Atna Meshesha	03320	1/12/2021
Joal Rama	Atna Meshesha	03320 (REC)	2/17/2021

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?

Radiation meters are calibrated under a contract with Radiation Service Organization, Inc (RSO).

All radiation samples are processed by the Department of Health Radiation Laboratory under a Contract/Memorandum of Understanding.

Sufficient calibrated instruments were available throughout the review period. A list of all instrumentation will be available during the audit.

IV. Technical Quality of Licensing Actions

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

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

Licensee	Action	Date	Reviewer	Description
Versa	Bankruptcy/termination	5/29/2019	Charles Cox	Paper Mill Fixed Gauge

20. Discuss any variances in licensing policies and procedures or exemptions from the regulations granted during the review period.
- Due to the COVID-19 pandemic, Governor Hogan declared a state of emergency. A number of executive orders followed. A March 12, 2020 order extended the expiration date of certain licenses, permits, registrations, and other government authorizations to 30 days following the lifting of the state of emergency. A subsequent order declared that the extension will expire on June 30, 2021.**
21. What, if any, changes were made in your written licensing procedures (new procedures, updates, policy memoranda, etc.) during the reporting period?
- Developed a Quality Assurance Procedure for both Licensing and Inspections. The licensing portion was in response to a previous IMPEP incorporating findings from a root cause review establishing standard license conditions for license codes and a proofreading checklist for the most common editing errors.**
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.

None

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> |
|----------------------|------------------|--------------------------------|-------------------------|
|----------------------|------------------|--------------------------------|-------------------------|
- None**
24. Identify any changes to your procedures for responding to incidents and allegations that occurred during the period of this review.

None

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.

All laws are pertaining to Radiation are established under the Maryland Code, Environment Article Title 8-Radiation. No legislation was enacted or amended during the review period.

**Current effective regulation Code of Maryland Regulations 26.12.01.01
Adopted September 9, 1995 Effective October 9, 1995.**

Supplement 28 effective November 24, 2016 RATS 2015-1, 2015-2, 2015-3, 2015-4, and 2015-5.

Supplement 29 effective May 21, 2018

Supplement 30 effective February 22, 2021

Supplement 31 is being reviewed by the Attorney Generals Office and will contain RATS 2018-1, 2018-2

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

No

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.

SRS sheet is correct as listed

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.

**Amendment adoption procedure is located in the "Box"
Approximate time to adopt amendments is 7 months**

II. Sealed Source and Device (SS&D) Evaluation Program

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
MD-1362-D-101-S	Xcision	Breast Cancer	1/8/2016	Issued
MD-1362-D-101-S	Xcision	Breast Cancer	3/7/2018	Amendment
MD-0600-D-101-B	Shimadzu	Electron Capture	Under Review	Amendment
MD-8324-D-101-	Conco	Electron Capture	9/27/2019	Inactivated

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
Questions 2-9

Question 2

Name	Date of SSD Course	SSD Evaluation Experience
Cheryl Nitkowski	March 31-April 4, 2014	7 years

SEALED SOURCE AND DEVICE REVIEW		
<u>Name</u>	<u>Title</u>	<u>Signature Authority</u>
Cheryl Nitkowski	Section Head, Licensing	Full
Talya Langbaum	HP II	None
Matthew Sievers	HP II	None

Question 3 same as above

Question 4 same as above

Question 5 Of the licensing staff, Matthew Sievers has not yet attended the SS&D Workshop.

Question 6 No changes in qualification and training procedure for SS&D

Question 7 same as above Key SSD reviewer lost when Nate Owrutsky retired from State service

Question 8

Vacant Position	Time Vacant	Effort to Fill Vacancy
RAM License Reviewer C7050	Since May 13, 2020	Approved June 8, 2021
RAM License Reviewer C7042	Since May 19, 2020	In ARA Director's Office

Question 9 same as above

Technical Quality of Licensing Actions - Questions 18-22

Question 18 ? How many active SS&D sheets do we have?

Question 19

Licensee	Action	Date	Reviewer	Description
Gammapod	Amendment	3/17/2018	Cheryl Nitkowski	Reducing # of sources

Question 20 **No variances in SSD licensing policies and procedures or any exemptions issued.**

Question 21 **No new SSD procedures during this reporting period**

Question 22 – **None**

Technical Quality of Incident and Allegation Activities - Questions 23-24

Question 23 – **No reportable incidents**

Question 24 – **No change to procedure**

II. Low-level Radioactive Waste Disposal Program

None

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

NA

III. Uranium Recovery Program

None

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

NA

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

