

Radiation Advisory Committee Meeting

June 10, 2026

Hybrid Meeting

Meeting Start Time: 10:00 am

Attending:

Radiation Advisory Committee (RAC) Members

Robert Berry – Nuclear Medicine Lead & Radiation Safety Officer at Providence Portland Medical Center and East Portland

Alicia Zambelli – Veterinarian & Co-owner of Fern Hill Veterinary Care in Happy Valley

Absent: Dennis Wood – Medical Physicist at Bay Area Hospital, Coos Bay

David Hamby – OSU Emeritus in Health Physics & Nuclear Engineering

Garrett Frey – Safety Facilitator, On-Line Co.

Absent: Jennifer Clayton – Dean of Nursing & Allied Health at Walla Walla Community College

Mechelle Livran – Palm Beach Tanning

Radiation Protection Services (RPS)

Todd Carpenter – Interim Program Director

Erin DeSempole – Interim Licensing and Registration Manager

Hillary Haskins – Operations Manager

Patty Thompson – Section Administrative Specialist and Staff Support

Thomas Mynes – Inspector, Health Physicist

Lee Lind – Radioactive Materials Licensing Administrative Specialist

Alex Parker – Tanning Program Administrative Specialist

Toby Irving – Inspector, Health Physicist

Michelle Martin – Inspector, Health Physicist

Tom Pfahler – Inspector, Health Physicist

Sarah Brodesser – Inspector, Health Physicist

Rich Patterson – Inspector, Health Physicist

Guests

Thomas King – Oregon Board of Medical Imaging

Linda Kihs – Oregon Dental Assistants Association

Catherine Hess – Oregon Health & Sciences University, Radiation Safety Officer

Isaiah Kunewa – Microchip Technology

Krista Beaty – Oregon Institute of Technology

Approval of the Meeting Minutes of February 11, 2026

- Motioned by David Hamby, Seconded by Alicia Zambelli.
- Minutes approved by Bob Berry, David Hamby, Alicia Zambelli, Garrett Frey, and Mechelle Livran.

RAC Member Presenter: Todd Carpenter

- Krista Beaty will be replacing Dr. Saulo Sousa Melo as a dentistry representative for the term January 1, 2025 to December 31, 2028.
- Krista Beaty, MS, RDH is an Associate Professor of Dental Hygiene and Interim Department Chair at Oregon Institute of Technology.
- Garrett Frey and Alicia Zambelli's terms end December 31, 2026
 - Both are eligible to serve another term.

Staffing Transition Presenter: Todd Carpenter

- New Center for Health Protection Interim Director is Danna Drum.
- Interim Program Director is Todd Carpenter.
- Interim Licensing Manager is Erin DeSemple.
- Erin DeSemple's previous position as Radioactive Material Licensing Reviewer will be posted as a Limited Duration or Job Rotation. This would be an up to 2-year transition position.

2026RPS Program Updates

2026 RPS Budget – Presenter: Todd Carpenter

RPS FINANCIAL SUMMARY AY 2025-2027

PROPOSED LICENSING & REGISTRATION FEES INCREASE FOR SOLVENCY THROUGH AY 29-31

Grant Title	Budget Period	Beginning Balance	Revenue AY27/Budget	Expenditure	Remaining Balance
RPS Grain Analysis Lab Fee	7/1/2025-6/30/2027	(5,463.52)	12,012.00	10,555.55	(4,007.07)
RPS X-Ray Registration Fee	7/1/2025-6/30/2027	(22,460.44)	2,431,227.78	1,600,633.37	808,133.97
RPS Radioactive Materials License (RML)	7/1/2025-6/30/2027	207,243.14	871,081.76	951,856.12	126,468.78
RPS Tanning Device Registration	7/1/2025-6/30/2027	33,374.05	131,741.00	282,476.01	(117,360.96)
RPS ODOE 1st RESP/REC TRNG	7/1/2023-6/30/2026	37,075.50		8,318.88	28,756.62
RPS Metro Rad Mat Disposal	3/1/2024-2/28/2026	(45,148.65)		3,610.40	(48,759.05)
RPS ODOE Rad. Training (Internal)	7/1/2023-6/30/2028	35.42		60,982.83	(60,947.41)
RPS Mammography Fac Inspection PH26	7/1/2025-6/30/2026	-	249,408.00	174,713.13	74,694.87

- At the end of the current biennium, the carry-over will be at its minimum.

- We will begin discussing raising registration and licensing fees for the next biennium to make sure the program remains solvent through the 2029-2031 fiscal year.
- At the next RAC meeting in October, we will present a plan and strategy with a report of what our fiscal impacts will be.

Electronic/Tanning Products Update

X-ray Inspections – Presenter: Tom Mynes

- Inspection Time – 339 hours
- Inspection Travel Time – 239 hours
- Inspections since last RAC meeting
 - 217 X-ray inspections (medical, dental, vet, therapy, MQSA and industrial)
 - 818 machines
 - 830 tubes

Tanning Inspections – Presenter: Tom Mynes

- 15 inspections

Other Inspector Duties

Building and maintaining databases, participating in committees, modality working groups (CRCPD), radiation safety training presentations, shielding documentation review, new equipment review, vendor application reviews, exemption reviews, incident investigations, training reviews, new machine inspection protocols to name a few.

Violation Summary

X-ray: 40 citations with 40 instances

- Machine registration – 11 citations
- Personal Protection Equipment (PPE) checks – 3 citations
- Training (dental hand-held and Vet Assistant) – 4 citations

Tanning:

- Time was not checked annually for accuracy.
- Emergency shutoff was not tested annually.
- Cleanliness – overhead vent not cleaned.

Radioactive Material Licensing and Operations Update – Erin DeSemple

Summary for January - May

- 27 Inspections performed
- 93 Inspections remaining
- 54 Licensing actions performed
- 93 Licensing actions open

Emergency Response/Incidents

Emergency Response Federal Emergency Management Agency (FEMA) Evaluated Drill – Presenter: Tom Pfahler

- Drill was in March 2026.
- RPS was to respond to an incident at the Columbia Generating Station.
- Evaluated on our response capabilities, namely our ability to protect public health safety through following the procedures we have in place.
- Our job is to collect samples and assess radioactivity deposition in air, water, soil, vegetation and milk.
- FEMA evaluators assessed our execution of communications, command and control, sample collection and radiological controls.
- RPS passed the FEMA evaluation.
- FEMA evaluations are conducted every 2 years.

Staff Training and Conferences – Presenter: Hillary Haskins

- Out of State travel was limited
 - Conference of Radiation Control Program Directors (CRCPD) Annual Meeting – Hillary Haskins
 - Nuclear Regulatory Commission Root Cause Course– Sarah Brodesser
 - Radiological Emergency Response (delayed) – Tom Mynes
- Nuclear Regulatory Commission Collaborative Learning Center Online Training

Evaluations

- Integrated Materials Performance Evaluation Program (IMPEP)
 - Performed by Nuclear Regulatory Commission
 - Moved to a new schedule due to reorganization of NRC
 - Previously the evaluations were done every 5 years
 - RPS will be every 6 years due to two consecutive all satisfactory reviews.

- Food and Drug Administration Mammography Quality Standards Act (MQSA)
 - MQSA evaluations were delayed due to lack of evaluators.

Exemptions/Rules/Statutes

Review of Outside Radiation Safety Curriculum – Presenter: Tom Mynes

- The vendor submits the course materials, quizzes and tests, and proposed instructors. Instructors must be approved.
- RPS reviews all the submitted materials to ensure the instructors are qualified.
- All instruction material is reviewed for accuracy, flow and ease of understanding.
- Any areas needing attention or correction will be communicated back to the vendor.
- It has been taking up to three submission attempts before approval is granted.
- The approval conditions: All changes to the course and instructors need prior approval.
- Current issues and the future
 - The reviews take up a lot of an inspector's time
 - Some courses are 300+ slides
 - Reviews can take up to a year from start to finish for approval.
 - Currently no fee is charged.
 - Looking to charge a fee for reviews.
 - Looking into limited reviews because of amount of time to approve.

Adopted Administrative Rules – X-ray and Tanning Regulations –

Presenter: Todd Carpenter

- Finished written comment portion that allows 30 days for public comment on the proposed rules.
- The rules will impact tanning and x-ray industries.
- RPS received 19 public comments with two areas of concern.
 - Positioning patients and assisting the Radiologist or Physician when positioning the fluoroscopy unit.
 - RPS may not have regulatory authority on positioning patients. This may fall under Oregon Board of Medical Imaging rules.
 - Veterinary Assistants not being able to operate the fluoroscopy unit.

- Certified Veterinary Technicians are in very high demand and not always available. The industry relies on the Veterinary Assistant.
- According to a report from the Veterinary Board there are 2934 veterinarians and 1597 Certified Veterinary Technicians in Oregon.
- All public comments received will be responded to by RPS.

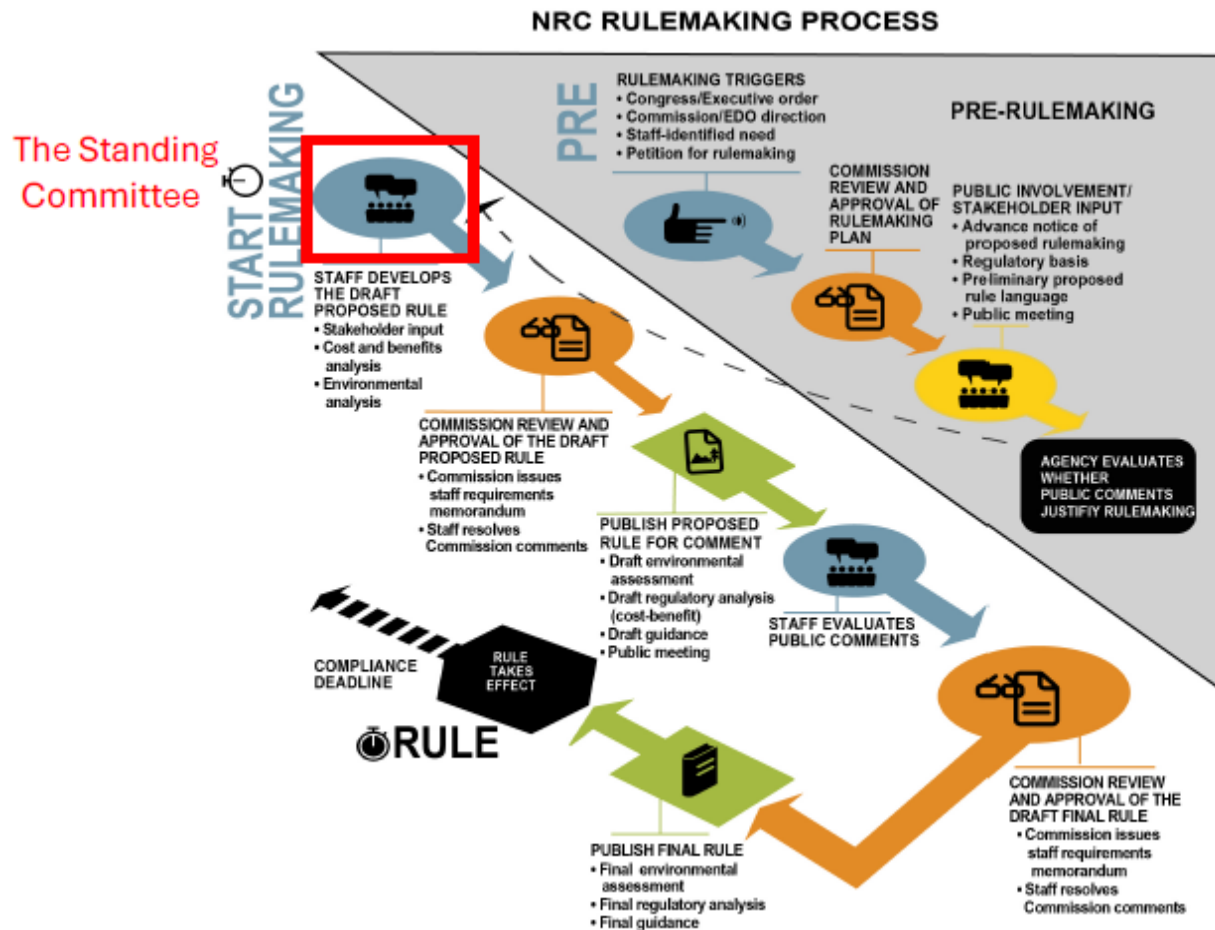
Identification of Rule Advisory Committee

- X-ray Therapy Rules were last amended in 2009.
- Addressing emerging technology.

Executive Order 14300 Update

- Radioactive Material Licensing rule updates.
- Role revision links from the Nuclear Regulatory Commission (NRC) are available.
- Organization of Agreement States (OAS) and Conference of Radiation Control Program Directors (CRCPD) have formed task forces.
- OAS has been looking at the compatibility of rules.
- CRCPD has been going through the rules with experts in those areas.
 - RPS is signing on with comments to the CRCPD responses due to not having the resources available to review all the rules.
- There is a 30-day comment period when a rule is posted.
- Not all states agree. This option provides a forum to express other perspectives and utilize expertise from other states.
- Part 20 is going to be coming up.
 - This is where “as low as reasonably achievable (ALARA)” is located. This is essentially the basis of radiation protection standards.
 - This will be the one that RPS is focusing on the most due to it being the basis for everything else.
- Federal Compatibilities
 - Look at the compatibility of the rule itself. How the rule will affect other states and the network of regulation for radioactive material. It’s not a critique of the rule itself.
- The Standing Committee on Compatibility
 - Members: 2 State Representatives, 3 Nuclear Regulatory Commission (NRC) Representatives, 1 to 3 Representatives from the Working Group
 - The Process

- Proposed Federal Register Notice (FRN) is provided to the committee for review.
 - Review times range from one to three weeks
 - The Committee Meets
 - The Working Group presents the FRN package
 - Providing a general overview
 - Changes they have identified as most significant
 - Intent
 - The Committee provides comments on the compatibility categories of each rule change.
 - The Comments are added to the proposed FRN and proceeds to the NRC Internal Review.
- The NRC Rulemaking Process
 - Compatibility designations are proposed by the NRC/Organization of Agreement States (OAS) working group.
 - The working group presents their proposed changes to the Standing Committee on Compatibility.
 - The Standing Committee on Compatibility reviews the compatibility designations and makes recommendations to the Working Group.
 - The Working Group does or does not incorporate those recommendations.



- Understanding Compatibilities – Agreement States are required to be compatible with NRC regulations:
 - Compatibility A: basic radiation protection standards, scientific terms, and definitions that are necessary to understand radiation protection concepts.
 - Compatibility B: program elements that apply to activities that cross jurisdictional boundaries. These program elements have a particular impact on public health and safety.
 - Compatibility C: program elements that are important to avoid conflict, duplication, gaps, or other conditions that would jeopardize an order pattern of regulation. Agreement State regulations can be more restrictive provided that the essential objective is met.
 - Compatibility D: not required for compatibility.
- Not Compatibility – Agreement States are not required to be compatible with some NRC regulations.

- Compatibility NRC: program elements that fall under NRC jurisdiction and should not be incorporated by Agreement State regulations.
- Compatibility H&S: program elements that have a particular health and safety significance. Compatibility H&S is not required for compatibility but is evaluated during an IMPEP review when determining a radiation program's adequacy.
- Chapters reviewed
 - Parts
 - 19 – Notices, Instructions and Reports to Workers
 - 20 – Standards for Protection Against Radiation
 - 30 – Rules of General Applicability of Domestic Licensing of Byproduct Material
 - 31 – General Domestic Licenses for Byproduct Material
 - 32 – Specific Domestic Licenses of Broad Scope for Byproduct Material
 - 34 – Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations
 - 35 – Medical use of Byproduct Material
 - 37 – Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material
 - 39 – Licenses, Radiation and Safety Requirements for Irradiators
 - 40 – Domestic Licensing of Source Material
 - 50 - Domestic Licensing of Production and Utilization of Facilities
 - 61 – Licensing Requirements for Land Disposal of Radioactive Waste
 - 70 – Domestic Licensing of Special Nuclear Material
 - 71 – Packaging and Transportation of Radioactive Material
 - 150 – Exemptions and Continued Regulatory Authority in Agreement State and Offshore Waters under Section 274
- Federal Registry Notification Packages
 - Reducing barriers to medical use licensing
 - Part 35 revisions, changes to personnel responsibilities, training requirements and approved uses.
 - Modernizing material licensing (CFR – Code of Federal Regulations)
 - 10 CFR Parts 30, 37, 40, 51, 70, 72 and 140

- Clarifying regulations, addressing – duplicative, outdated, reporting/recordkeeping intended to streamline license processes.
- Modernizing NRC regulations for byproduct material use
 - 10 CFR Parts 30, 31, 32, 34, 39, 40, 70 and 150
 - Addresses need for amendments and exemptions.
- Modernizing package certification requirements
 - 10 CFR Part 71
 - Addresses streamlining of package certifications and shipping requirements.
- Modernizing requirements relating to physical protection of Category 1 and Category 2 quantities of radioactive material.
 - 10 CFR Part 37
 - Re-evaluation of safety requirements for Category 1 and 2 quantities.
- Reforming and modernizing the NRC's radiation protection framework.
 - 10 CFR parts 19, 20, 34, 35, 40, 50, 53, 61, 71 and 72
 - Re-evaluation of radiation protection standards, framework and definitions.
- Integrated low-level radioactive waste disposal
 - 10 CFR Parts 20, 61, 73 and 150
 - Changes to land disposal requirements and licensing process.

Oregon's Rulemaking Process Timeline with Federal Compatibility – Presenter Todd Carpenter

- Rule compatibility for Category A and B
 - Rules are final within a three-month period without public hearing/comment.
- Rule compatibility for Category C through D
 - Rulemaking must be reviewed by an appointment Rule Advisory Committee followed by a 30-day comment period and pending issues/impacts may require a public hearing.
 - Timeframe is 8 to 12 months.

Emergency Preparedness/Response

Computed Tomography (CT) Scans Performed Without Physician Order – Presenter: Tom Mynes

- CT techs scanned each other without being seen by a physician nor having a CT exam ordered.
- This was discovered the following day.
- Facility management reported this to the Oregon Board of Medical Imaging (OBMI).
- OBMI reported to RPS and assumed lead on the investigation.
- CT techs admitted to the scans.
- OBMI performed follow up. RPS agreed with the corrective actions and the incident was closed.

Alleged Injury During Imaging Exam – Presenter: Tom Mynes

- Patient stated they were injured during an imaging examination.
- Patient reported complaint to OBMI.
- OBMI reported to RPS.
- RPS reviewed the following: serious complaint policy, latest physics report and corrective actions, latest quality control tests performed, latest issues with the machine and followed up with the Food and Drug Administration (FDA).
- OBMI reviewed technologists.
- Based on the information reviewed, both RPS and OBMI were unable to confirm the allegation.

CT Imaging Overexposure – Presenter: Tom Mynes

- CT tech did not adhere to facility policy on repeat exams
- Policy states:
 - Tech can repeat once on non-contrast studies.
 - Afterwards they must consult with physician or radiologist.
 - If contrast study, all repeats must be approved by physician or radiologist.
- Patient was scanned 5 times with no consultation with physician or radiologist.
- Discovered the following day.
 - Facility management reported to OBMI.
 - OBMI reported to RPS.
- Thomas King with OBMI stated that they are also looking at how many times a patient is given contrast media.
 - Looking at residual effects of potential kidney damage.

External Beam Treatment to Incorrect Site – Presenter: Michelle Martin

- Anonymous complaint – concealment of a reportable medical event
 - 2019 the patient had surgery for breast cancer and clips were placed at the surgical site.

- 2026 the patient had a second surgery for breast cancer and no clips were placed.
- Radiation therapy followed in 2026.
- The planned dose was 5005 cGy.
 - 15 fractions to the entire breast area
 - Then 5 “boost” fractions
- The first boost fraction was given to the 2019 surgical site with the clips
- Was the wrong site treated?
 - Oregon Administrative Rule 333-123-0020 (1)(b)
 - Involves the wrong patient, wrong treatment modality or wrong treatment site.
 - Oregon Administrative Rule 333-123-0020 (50)
 - “Treatment site” means the anatomical description of the tissue intended to receive a radiation dose, as described in a written directive.
- The patient’s written directive and treatment plan were reviewed.
- Primary Planned Target Volume (PTV) listed in the written directive is the entire right breast treatment volume.
- Although the 2019 tumor bed was specified in the first boost treatment, it was still within the initial primary planned target volume of the right breast.
- RPS determined it was not a reportable medical event.

Damaged Calibration Source Holder – Presenter: Michelle Martin

- Notified by facility of damage on March 20, 2026
- Damaged source holder:
 - Ge-68, 1.5 mCi, used in PET/CT unit for quality control (QC) testing.
- Occurred during QC testing
 - Nuclear Med Tech started QC and heard an odd noise through the speaker.
 - QC failed
 - Contacted Philips service
- A wipe test showed there was no damage to the source itself.
- Philips services stated it appears the mylar cover over the PET ring collapsed into the rotating ring during daily QC.
- Patients scheduled for treatment that day were cancelled.
- New source was ordered, installed and the facility resumed patient treatments.
- Not reportable to the NRC as no damage to the source itself.

Public Comments

- No comments

Announcements – Presenter: Bob Berry

- Next RAC meeting is scheduled for October 14, 2026.
- Meeting adjourned at 11:42 am.