



# RADIATION ADVISORY COMMITTEE

Barbara Smith,  
Chair



David Howe,  
RPS Program Director

**February 9<sup>th</sup>, 2022**





# TELECONFERENCE PROCEDURES

---



- Record phone-in number and pass code (in case you lose connectivity)
- Phone-in number and conference ID# provided in Teams invitation email
- If phoning into meeting, use PowerPoint slides to follow meeting
- To unmute self, press \*6



- Video (of yourself) is optional
- Please mute your microphones unless speaking
- Use the “raise hand” feature if you have a question
- When speaking, begin by stating your name when you are finished
- RPS staff will use screen share to share PowerPoint information and handouts
- The meeting will be recorded for purposes of accuracy in the minutes



## RADIATION ADVISORY COMMITTEE MEETING AGENDA

February 9, 2022 – Virtual Meeting

800 NE Oregon St., Portland, Oregon (On-line)

Phone-In Number 1-971-277-2343 (Code: 169 525 767#)

(\* = Action Items)

**10:00 a.m. Registration/Public Session**

- Call Meeting to Order – Barb Smith, Chair
- Introduction of New Member (Dennis Wood) and guests
- Approval of Minutes – Barb Smith
- RPS Staffing – David Howe (Patty Thompson) RPS

**10:30 a.m. 2021 RPS Annual Summary – David Howe**

**Program Updates**

- RPS Budget – Todd Carpenter, Licensing Manager, RPS
- Electronic / Tanning Products Update – Brent Herring, Lead Worker, RPS
- Radioactive Materials Licensing – Hillary Haskins, Operations Manager, RPS
- Emergency Response / Incidents – Hillary Haskins
- RPS Training – Hillary Haskins
- 2022 Priorities – David Howe

BREAK

**11:15 a.m. Exemptions/Rules/Statutes**

- \* Blue Pearl Vet - CereTom Elite CT, Mobile CT with CVT operators (Valerie Lohr) – Hillary

**Legislative Bills**

- HB 2075 (RPS Fee Increases) – David Howe
- 2022 Legislative Short Session – David Howe



### **Rulemaking**

- Rule amendments for compatibility with OBMI's rules for Physician Assistant not required to be supervised for fluoroscopic operations (HB 3036)
- Rule amendments for compatibility with the Oregon Board of Dentistry allowing a dental therapist to operate intraoral dental radiographic X-ray machines. patients (HB 2528)
- Miscellaneous rule reference corrections

**11:45 a.m. Lunch**

**12:15 p.m. Emergency Preparedness/Response**

- CGS Hanford Exercise, Sept/Oct 2022 – Hillary Haskins
- ROSS – Radiation Operations Support Specialist – Hillary Haskins
- ODOE updating waste rules – Hillary Haskins
- Recent incidents – Hillary Haskins

**12:45 p.m. New Business**

- Covid-19, Inspections and Travel Restrictions – Hillary Haskins
  - PSOB Reopening Delayed Indefinitely
- 2022 Mandatory RAC Member Training – David Howe
- Single Device Project – Lee Lind, RPS Admin

**01:30 p.m. PUBLIC COMMENTS:**

**2:00 p.m. Announcements** \ Next meeting scheduled for June 15, 2022 /Adjourn



---

# APPROVAL OF MINUTES FROM OCTOBER 13, 2021



## Radiation Advisory Committee Meeting

# RPS STAFFING

---

David Howe





# We Welcome Patricia Thompson to RPS!!



- Hired as an Administrative Specialist 1
  - Currently working with x-ray registrar, Judy Smith on x-ray program billing
  - Will provide fiscal backup for x-ray, RML, and tanning programs
  - Responsible for maintaining administrative and personnel files, personnel policies and procedures, records management, etc.
- 10 years employed with State of Oregon
  - Oregon Department of Transportation
  - Employment Department
  - State Police Forensics Laboratory
  - Center for Health Statistics in Amendment Unit



# 2021: ANNUAL SUMMARY REPORT

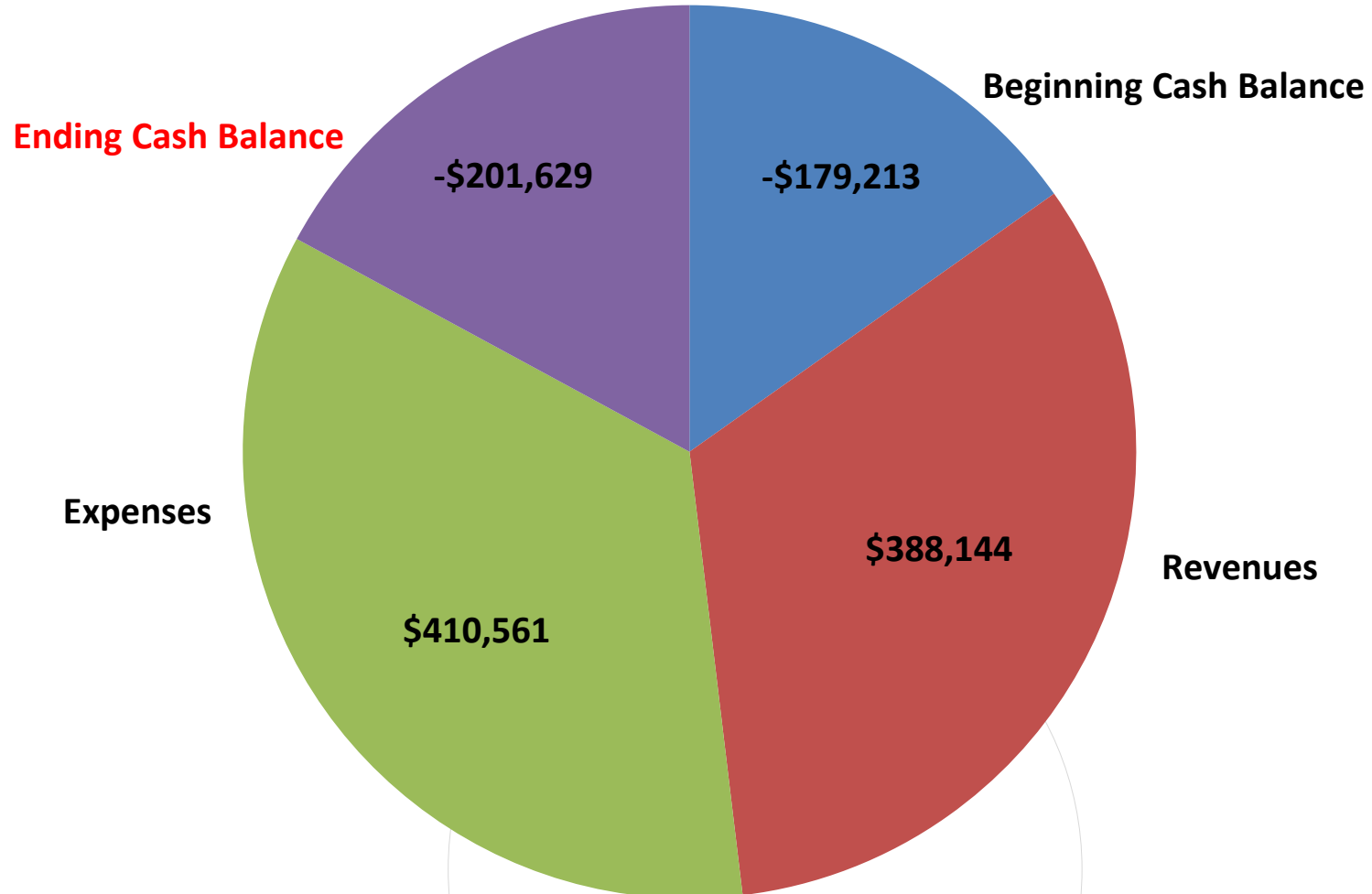
---





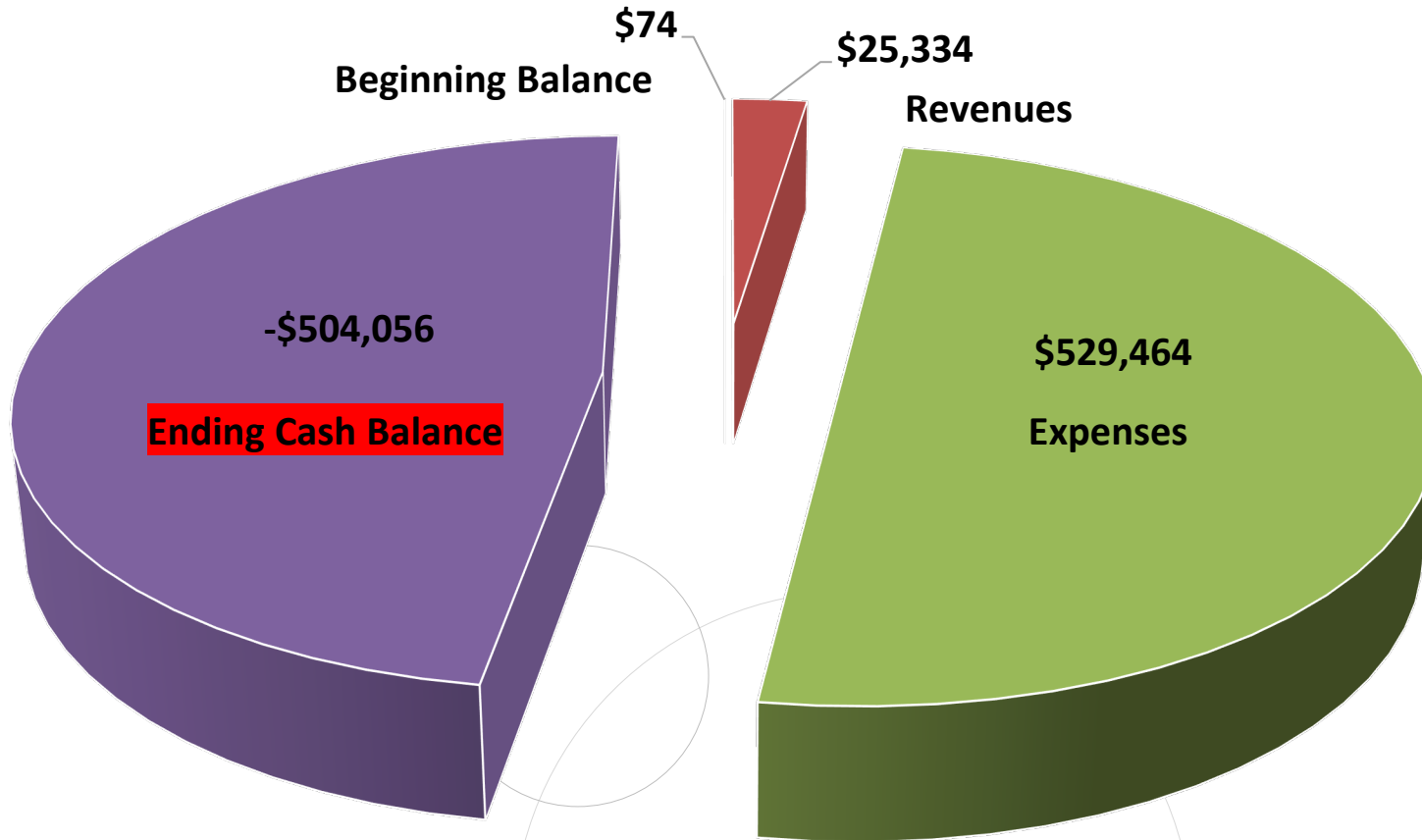
# RPS BUDGET – RADIOACTIVE MATERIALS LICENSING PROGRAM FY 2021

Todd Carpenter, Licensing Manager



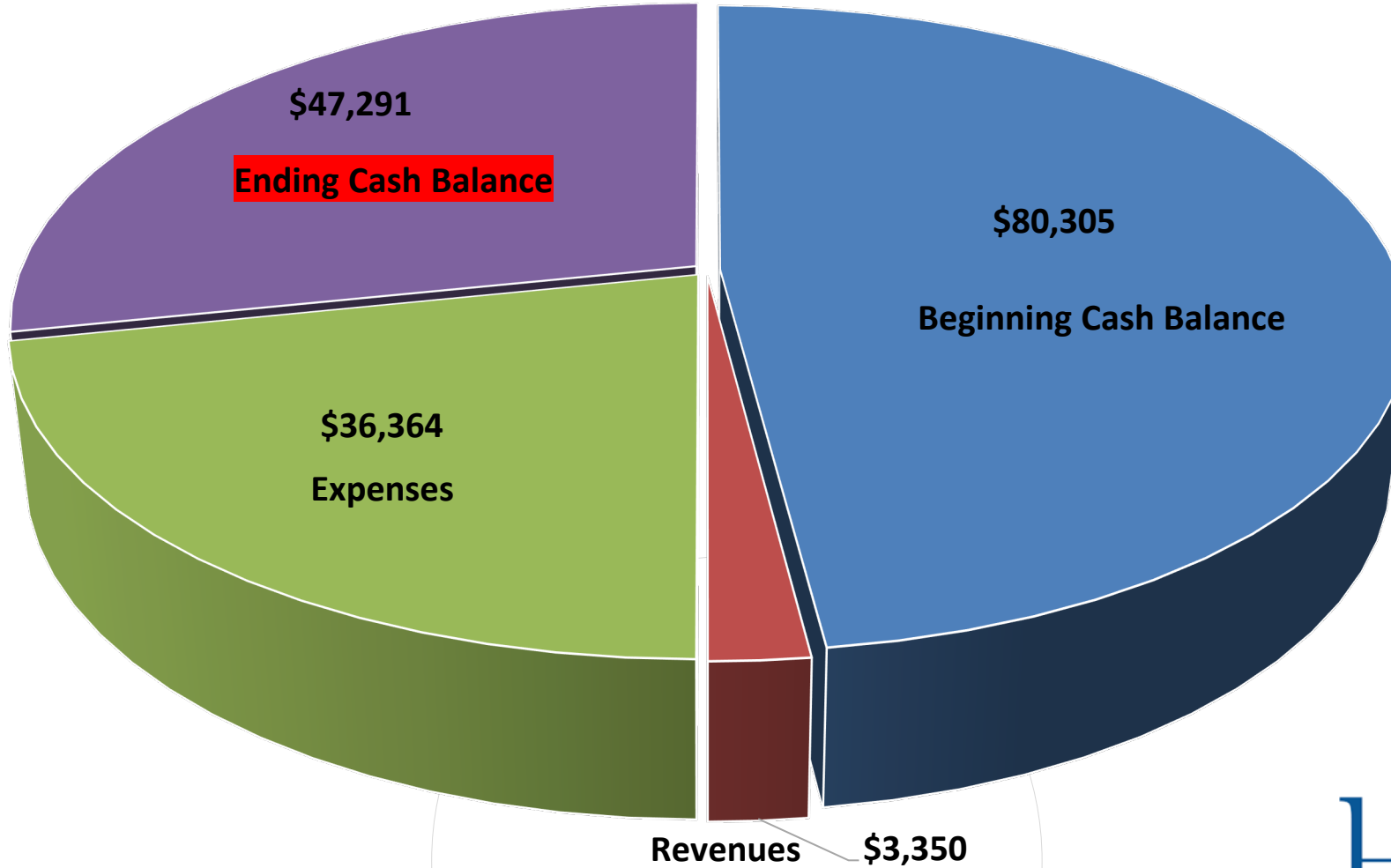


# RPS BUDGET – X-RAY REGISTRATION FY 2021



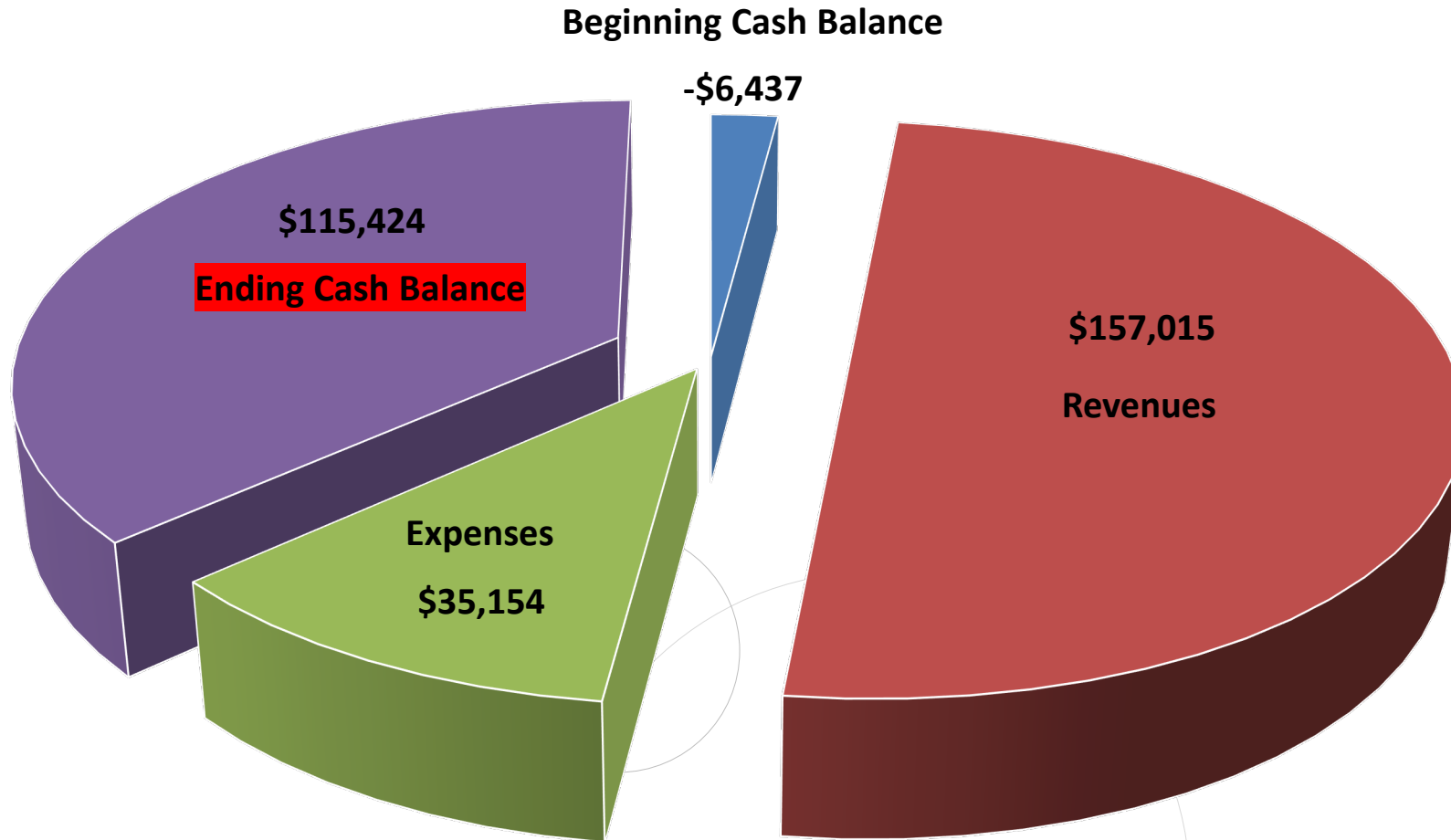


# RPS BUDGET – TANNING REGISTRATION FY 2021





# RPS BUDGET – MAMMOGRAPHY PROGRAM FY 2021





# RPS BUDGET – MISC. PROGRAM BUDGETS FY 2021

	Beginning Balance	Revenues	Expenses	Cash Balance
First Responder Training	\$19,249	\$5,000	\$2,833	\$21,415
Emergency Response	-\$2,238	\$13,810	\$28,502	-\$16,929
METRO Disposal	\$70,353	\$0	\$436	\$69,917
Grain Analysis	-\$1,132	\$3,925	\$8,586	-\$5,793

# ELECTRONIC / TANNING PRODUCTS UPDATE

Brent Herring,  
Lead Worker, RPS





# ELECTRONIC PRODUCTS



## XRAY

- 307 Facility Inspections Completed
- 1316 Machines Inspected
- 1393 Tubes Inspected
- ~ 750 Inspections Due/Overdue
- 124 Violations Issued
- Top 5 Violations
  1. Dosimetry Records
  2. Machine Registration
  3. PPE Checks
  4. Minimum radiation exposure to patient
  5. Light field and Xray field – within 2% of SID

## TANNING

- 33 Facilities Inspections Completed
- 124 Violations Issued
  - Top 5 Violations
    - Emergency Shut Off Check
    - Timer Accuracy Check
    - Lamp Equivalency Certificate Not Available
    - Trained Operator Not Present
    - Client DOB and ID Information Not Recorded
- 132 Facilities Due



# RADIOACTIVE MATERIALS LICENSING 2021 SUMMARY

Hillary Haskins, Operations Manager, RPS

- 113 licensing actions completed

Count	Type
47	Change RSO/AU
24	Renewal
20	Add/remove source
7	Termination
6	New
9	Other







# RADIOACTIVE MATERIALS LICENSING – INSPECTIONS & VIOLATIONS

84 inspections performed (none overdue)

Count	Rule #	Description
11	120-0020	Annual audit not conducted
10	102-0305	inventory/equipment checks
8	116-0090	Rad Safety Committee missing AU/not held at least once every 6 months
6	118-0050	Transportation violations. i.e. training, blocking bracing etc
4	116-0160	Dose Calibrator checks not performed correctly
4	120-0460	Leak tests not performed
3	111-0010	Rad safety training

SL 1	SL2	SL3	SL4	SL5
0	0	28	1	58



# PROGRAM GRADED EVALUATIONS

---

- Integrated Material Performance Evaluation Program (IMPEP)
  - August 2021
  - NRC 4-year audit – all performance indicators satisfactory / 1 recommendation
- Columbia Generating Station Drill
  - October 2021
  - FEMA evaluated emergency response exercise
  - Satisfactory – no corrective actions needed

---

# EMERGENCY RESPONSE/INCIDENTS

Hillary Haskins





## 2021 INCIDENTS / RESPONSE

Count	Description
12	Scrap Monitor Alarm
12	Miscellaneous
9	Waste Monitor Alarm
5	Medical Event
5	Licensee incident
3	Accelerator patient overdose
3	Household hazardous waste
3	Theft or loss of licensed material
3	Overexposure of individual to radiation or radioactive materials
2	Allegations
1	Found RAM
1	Leaking source
1	Prank
<b>60</b>	<b>Total</b>



## 2021 INCIDENTS / RESPONSE CONT.

---

- 51 incident and allegation investigations
- Featured incidents
  - Patient received a spinal dose >20% above the prescribed dose.
  - Allegation that non-radiation workers are pressing the button during mammography exams when some disabled patients are being imaged. Persons are holding patients during imaging and not wearing lead.
  - FBI performing on-scene investigation for WMD and found vials with 5 small containers of U-238 on site. Site is a freight forwarding company and containers en-route to customer in Australia. FBI contacted RPS for disposal options.
  - Notification of lost Ir-192 source for Mid-Columbia Medical Center. Alpha-Omega services shipped the source on 1/5/21 from LA to OR and it was lost in transit.



# INCIDENT – RANSOMWARE ATTACK

- Noted during a MQSA inspection
- Multiple facilities involved
- Data held hostage
  - Everything digital was lost
  - Digital equipment and software was not used
- MQSA was shut down for a month
- Medical facility down for a couple of days
  - Operated in non-digital world (paper)
  - Had to replace all computers
  - Digital data sharing with others was halted
- Most data was recovered
  - New PACS software





# ALLEGATION – CENTRAL OREGON RADIOLOGY ASSOCIATES (CORA)

---

- Involved 19 allegations in 4 licensed facilities
- COVID challenges
  - Had to maintain COVID protocols
  - Site visits
    - Could not access some areas due to patients and protocols
    - Discussed procedures with management and staff
  - All paperwork was sent by email
  - Investigation lasted over a year
- Most were unsubstantiated allegations
- The few that were confirmed were rectified the following day



# RPS TRAINING



Hillary Haskins





# 2021 – TRAINING AND CONFERENCES

- NRC on-line courses
- ICS on-line courses
- Tom Pfahler attended Reed RSO course
- Conferences attended in-person and on-line
  - Organization of Agreement States
  - Conference of Radiation Control Program Directors
  - Diversity, Equity, and Inclusion
  - NORM & Natural Radiation Management North America

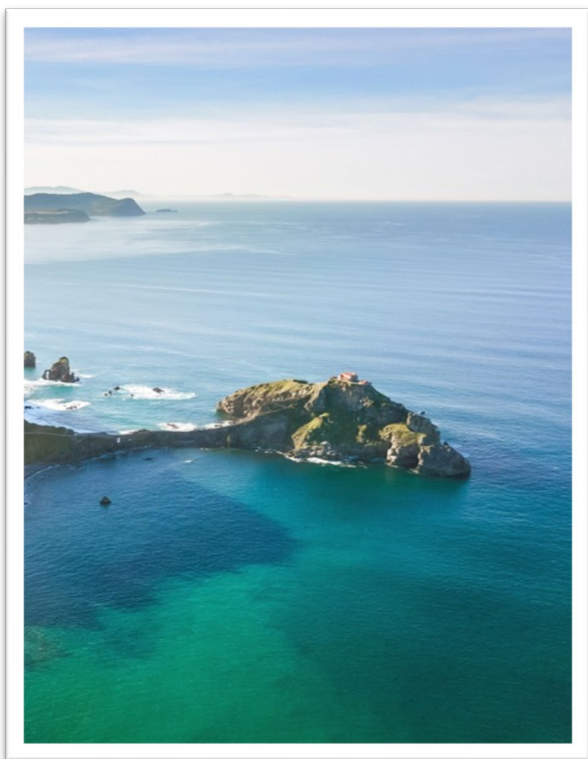




# 2022 PRIORITIES

---

David Howe



- Implement new registration and licensing fees
- Recruitment and Onboarding
  - Two Administrative Specialists (Tanning Program, X-ray / section support)
  - Three Environmental Health Specialists
- Implement IMPEP Recommendation
  - Ensure consistency for incident/allegation documentation
- Finalize Radiological Emergency Response Plan



# END OF 2021 ANNUAL SUMMARY REPORT

---



Take a Break

# EXEMPTIONS / RULES/ STATUTES

---

# BLUE PEARL VET

## EXEMPTION

Hillary Haskins





# Blue Pearl Vet - CereTom Elite CT, Mobile CT with CVT Operators

- A CereTom Elite CT machine to be operated in a new construction BluePearl Specialty + Emergency Pet Hospital located at 2030 NE 42nd Ave, Portland , OR 97213.
- The CereTom Elite has a lead lined mobile shield which users stand behind and will be used exclusively in our surgical suites which are joined by a shared wall. Both surgical suites and all surrounding areas are occupied by para staff members and has no access by the general public.
- While the CereTom Elite is equipped with shielding for the CVT/VTS operators & CVT/VTS anesthesia monitors to stand behind, our hospital provides and requires additional PPE use, including lead gowns, gloves and thyroid shields.
- Upon conclusion of Applications training, the CVTs/ VTSs listed above will then complete the CT Trainer Course provided by MIC. The CVTs / VTSs will receive a certificate of completion from MIC once all requirements are satisfied.
- Certificates from Applications Training and the MIC Trainers Course will be submitted to the Oregon Health Authority, requesting individual exemptions prior to any CVT/VTS listed above to begin operating the CereTom Elite.



# LEGISLATIVE BILLS

---





- X-Ray Tube Fee-Based Registration Fees
- Radioactive Materials Licensing Fee Increase
- Tanning Registration Fee Increase
- X-Ray Vendor Annual Licensing Fee

## **HB 2075: RPS Fee Increases**

---

David Howe





- 5 Week-Long Legislative Session
- No Anticipated RPS Legislative Bills



## 2022 Legislative Short Session

David Howe



# RULEMAKING

---

Todd Carpenter

---

# HB 3036: OBMI/RPS COMPATIBILITY RULE UPDATE: PA SUPERVISION

- Rule amendments for compatibility with OBMI's rules for Physician Assistant not required to be supervised for fluoroscopic operations

---

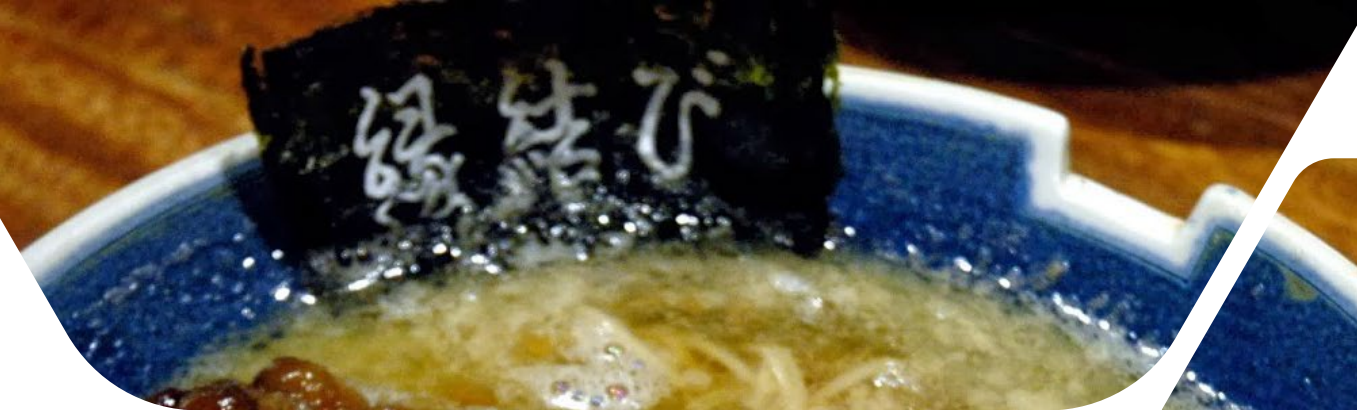
## HB 2528: RULE COMPATIBILITY WITH OBMI

- Rule amendments for compatibility with the Oregon Board of Dentistry allowing a dental therapist to operate intraoral dental radiographic x-ray machines

---

# MISCELLANEOUS RULE REFERENCE CORRECTIONS





**LUNCHTIME**



# EMERGENCY PREPAREDNESS/RESPONSE

---

Hillary Haskins





## CGS HANFORD EXERCISE

---

- Scheduled for Sept / Oct 2022



# ERT 2022



- 2022 Training Calendar
- Topics Include:
  - Detector use
  - Counting Operations / Egress
  - Air Sampling Operations
  - Command structure / communications
- Further development of drone program
- Purchase of 3 radio-isotope identification devices (RIIDs)
  - 1 for drone program
  - 2 for field use
  - Enhances RPS ability to identify nuclides of concern and to take appropriate measures of control and disposal



# ROSS – RADIATION OPERATIONS SUPPORT SPECIALIST

- In-Person Training
  - [http://ctosnnsa.org/pages/courses/courses\\_mobile\\_training\\_description](http://ctosnnsa.org/pages/courses/courses_mobile_training_description)
- Flyer
  - [https://www.fema.gov/sites/default/files/2020-07/fema\\_cbrn-ross.pdf](https://www.fema.gov/sites/default/files/2020-07/fema_cbrn-ross.pdf)
- General Info
  - <https://www.crcpd.org/page/ROSS-Portal>
- Booklet
  - [https://www.fema.gov/sites/default/files/2020-05/fema\\_nims\\_509\\_ross\\_0.pdf](https://www.fema.gov/sites/default/files/2020-05/fema_nims_509_ross_0.pdf)





# ODOE WASTE

## RULES UPDATE



OREGON  
DEPARTMENT OF  
ENERGY


- This rulemaking project will identify proposed revisions to OAR chapter 345, division 050, and other rules to implement the new provisions of SB 246 (2021) and to ensure that Oregon's regulation of radioactive wastes is sufficient to protect public health and safety and the environment.
  - <https://www.oregon.gov/energy/Get-Involved/Pages/Energy-Facility-Siting-Council-Rulemaking.aspx#RWM>



# RECENT INCIDENTS

---

- Mostly scrap/waste alarms
  - High level Ra-226 source discovered at recycling center
  - City of Albany water treatment tank (off-service) contaminated with Ra-226
- Medical events
  - wrong-site radiation treatment
  - wrong patient was administered a radiation treatment



# NEW BUSINESS

---



- PSOB/state buildings public re-opening delayed indefinitely
- PSOB closed to non-essential workers until February 7<sup>th</sup>
- Inspection priority:
  1. Virtual
  2. Administrative
  3. In-person on a case-by-case basis
- Overnight travel for essential needs approved on an as-needed basis
- Remote work is the new normal

## COVID-19 Impacts on RPS

Hillary Haskins



# MANDATORY RAC MEMBER TEAM TRAINING



David Howe





# SINGLE DEVICE PROJECT

Lee Lind,  
RPS Administrative Specialist



- Purpose of project is to ensure that all Department of Human Services (DHS) and Oregon Health Authority (OHA) staff have a single state-issued computer/laptop/phone to use for in-office or remote work
- Managed by Office of Information Services (OIS)
- Project team will work with agency office coordinators to evaluate each employee's work requirements, home network capacity (bandwidth), and long-term remote work plans to determine their technology needs.
- The project goals are to:
  - Simplify the way the agency works and reduce our technology carbon footprint
  - Save money by reducing equipment purchases and licensing costs



# THANK YOU FOR ATTENDING

---

Next Meeting is June 15, 2022