

Colorado Radiation Advisory Committee (RAC)
December 3, 2015 Meeting Minutes

I. CALL TO ORDER	RAC Chair Tom Johnson called the regular meeting to order on December 3, 2015 at 1:15p.m., in Conference Room A5A, Building A, at the Colorado Department of Public Health and Environment (CDPHE) main campus.
Agenda	The agenda sent November 20, 2015 was used.
Introductions	<p>Radiation Advisory Committee (RAC) members and Radiation Control Program staff introduced themselves.</p> <p>RAC members in attendance: Ted Borst, Jim Burkhart, Tom Johnson, Frank Judson, Craig Little, Vinod Ravindran, Jennifer Stickel, and Riad Safadi.</p> <p>The members present constituted a quorum.</p> <p>RAC member(s) absent: Phillip Koo (excused).</p> <p>Radiation Program staff in attendance: Jim Grice, James Jarvis, Jennifer Opila, and Brian Vamvakias.</p> <p>Guests in attendance: Fran Santagata, and Gary Baughman**</p> <p>(**Present for recognition of outgoing RAC members)</p>

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III. PRESENTATION	<p>A presentation on the "Preventative Radiological Nuclear Detection Program: Preventing the Unthinkable" was provided by Fran Santagata, Preparedness Program Manager, Division of Homeland Security and Emergency Management, Colorado Department of Public Safety.</p> <p>Ms. Santagata provided an overview presentation of the Department of Public Safety's radiological event preparedness and training programs for first responders, in addition to information pertaining to risk assessment, modeling, and consequences for hypothetical radiological events.</p> <p>The presentation is not available for posting due to the sensitive nature of the content. Please contact Fran Santagata at the Colorado Department of Public Safety for further information regarding the PRND program. For more information, please visit the Division of Homeland Security and Emergency Management website at: http://dhsem.state.co.us/.</p>
III. Program Updates	
A. Radiation Program update	<p>Jennifer Opila provided updates on the Radiation Program.</p> <p>Included in the update:</p> <ul style="list-style-type: none">- The Parts 1, 3, and 18 rules are moving forward with a Board of Health (BOH) hearing on December 16. A recently received comment requested that the requirement for the environmental assessment (provided by the applicant/licensee) also require the full public notice/hearing process as outlined in the draft rule. The Radiation Control Act limits the public process for new licenses, amendments, and renewals pertaining to the receipt of material. A change to the rule was made to clarify this and will be proposed at the BOH hearing.- Proposed legislation for the Radon program has been approved to move forward. If approved by the legislature, the legislation will provide funding for the Radon outreach program using funds from the hazardous waste fund. Included with the proposed legislation will be a grant program for low income households that will help pay for radon mitigation where testing indicates elevated results. The proposed legislation also includes a proposed disclosure provision for real estate transactions relating to information about Uranium Mill Tailings Radiation Control Act (UMTRA) materials used as

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	<p style="text-align: center;">backfill around properties.</p> <p><i>RAC Member Frank Judson inquired as to whether we have seen any measured or significant health effects resulting from uranium tailings around homes?</i></p> <p><i>Jennifer Opila indicated that we are not aware of known attributable health effects within the population where tailings were used around homes.</i></p> <p><i>Regarding the UMTRA related provision in the proposed legislation, RAC Member Craig Little indicated that he believed there was already a broad disclosure requirement pertaining to radioactive materials in current real estate transaction documents.</i></p> <p><i>Jennifer Opila indicated that the program would look into this issue further to determine whether this provision of the proposed legislation was still needed or requires further modification.</i></p> <p>Jennifer Opila continued with the program update:</p> <ul style="list-style-type: none"> - The program continues to await a response to the Department’s request for information from Black Range Minerals (a Western Metals subsidiary) regarding their proposed ablation technique for uranium bearing materials. We believe the company has hired a health physics consultant to provide technical support relating to their response. - Two spills have occurred at the Cotter facility within the past several weeks. The spills involved leaks in the system used to transfer contaminated water from the soil conservation service (scs) site back to the evaporation pond. The spilled liquids remained on Cotter property and presented no risk to the public. The Radiation Control Act requires that all spills be reported. Additional information is posted on the Department website. <p>No written program update was available for the meeting.</p>
<p>B. Radioactive Materials (RAM) Unit update</p>	<p>Jim Grice provided an update on the activities of the Radioactive Materials Unit.</p> <p>Jim Grice discussed the current licensing and compliance issues and activities:</p> <ul style="list-style-type: none"> - Staff member Cheri Hall has transitioned to the

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	<p>licensing lead position. As a result, the program expects to post two openings in 2016 to backfill the current openings.</p> <ul style="list-style-type: none"> - The final surveys for the MDTI Denver former cyclotron facility are being reviewed following decommissioning activities by a contractor. It is expected that the facility will be released to the landlord soon. - Escalated enforcement activities continue for two industrial radiography licensees (discussed at a prior RAC meeting) found to be in reported violation of the regulations. - Additional incidents were mentioned as discussed in further detail in the radioactive materials update summary (attached). <p>Further details may be found on the attached radioactive materials update summary.</p>
<p>C. X-Ray Certification Unit update</p>	<p>Brian Vamvakias presented an updated on the activities of the X-Ray Certification Unit (XRCU).</p> <p>The updates focused on the database development project:</p> <ul style="list-style-type: none"> - The database progress is continuing, and work with the Office of Information Technology (OIT) developers is an ongoing activity. As discussed in the handout, there are two phases, but phase one is the current focus, with phase two to follow. - The unit continues to work through issues and challenges pertaining to the remaining annual registration of facilities and the conversion to digital recordkeeping. <p>Further details may be found on the attached x-ray unit update summary.</p>
<p>D. Regulations / Special Projects update</p>	<p>James Jarvis provided an update and summary on the activities and status on regulations / special projects.</p> <p>James Jarvis updated the RAC on the current regulatory status:</p> <ul style="list-style-type: none"> - Some additional changes to the three regulatory parts currently in process - Parts 1, 3, and 18 - were made in late October and sent to stakeholders and RAC in early November. Changes made since the October Board of Health request for rulemaking are highlighted in the rules. The rules are moving forward with the final rulemaking hearing on December 16. - For 2016, the rules planned for amendment are Parts 16, 19, and 6. Drafts of the Parts 16, and 19 rules have

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	<p>been generated and staff is currently reviewing the proposed rule changes. RAC review is scheduled to begin in early January. A presentation on the topics addressed by the rules is planned for the first meeting of 2016 (TBD).</p> <ul style="list-style-type: none"> - As of this RAC meeting, we have received 6 applications for RAC appointments. The application period remains open until December 6. Following the application period, staff will review the applications and make recommendations to the Governor's office. - RAC members should consult their calendars for two possible RAC meeting dates - January 21, or January 28. An email will follow regarding these possible meeting dates. <p>Refer to the regulatory update for further details and information.</p>
E. Recognition of outgoing RAC members	<p>RAC members Ted Borst, and Frank Judson were recognized for their long term commitment and contributions as members of the committee. These members indicated that they did not intend to reapply for RAC appointments for 2016 and were presented a certificate and award for their support to the Committee over the years. Hazardous Materials and Waste Management Division Director Gary Baughman provided remarks and presented the awards to the two outgoing members.</p>
F. Subjects for future discussion	<p>None discussed.</p>
G. Adjourn	<p>The meeting adjourned at approximately 3:50p.m.</p>
Next RAC Meetings:	<p>2016 Meetings:</p> <ul style="list-style-type: none"> - January TBD (possible dates include January 21, or 28) - All other meetings TBD

Attachments:

1. *Colorado Radiation Advisory Committee Agenda* as emailed November 20, 2015 (1 page)
2. Radioactive Materials Unit update (1 page)
3. X-Ray Certification Unit update (1 page)
4. Regulations and Special Projects update and presentation (1 page)

The Radiation Advisory Committee meeting minutes for December 3, 2015, were approved via email by a quorum of members between December 28, 2015 and January 5, 2016.



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Dedicated to protecting and improving the health and environment of the people of Colorado

COLORADO RADIATION ADVISORY COMMITTEE MEETING AGENDA

Thursday, December 3, 2015
1:15 P.M., CDPHE - Building A
Conference Room A5A 5th Floor (Board Room)

12:30 PM	LUNCHEON
	REGULAR MEETING
1:15 PM	I. CALL TO ORDER, INTRODUCTIONS, AGENDA ADDITIONS / CHANGES
1:20 PM	II. PRESENTATION - “Preventative Radiological Nuclear Detection Program: Preventing the Unthinkable”, Fran Santagata, Preparedness Program Manager, Div. of Homeland Security & Emergency Management, Colo. Dept. of Public Safety (60 minutes)
	III. PROGRAM UPDATES
2:20 PM	A. Radiation Program update - Jennifer Opila (20 minutes)
2:40 PM	B. Radioactive Materials Unit update - Jim Grice (20 minutes)
3:00 PM	C. X-Ray Certification Unit - Brian Vamvakias (25 minutes) 1. X-Ray Database - status update
3:25 PM	D. Regulations/Special Projects - James Jarvis (10 minutes)
3:35 PM	E. Recognition of outgoing RAC members (20 minutes)
3:55 PM	F. Subjects for future discussion
~4:00 PM	G. ADJOURN
	2016 RAC Meetings: TBD

NOTE: all times/dates are approximate and are subject to change



Radioactive Materials Unit
Project Status 12/3/15

Staffing:

- Licensing Lead: Cheri Hall has transitioned to her new licensing lead position

Licensing/Compliance

- Update on MDTI: Denver facility has had the cyclotron itself removed and the Department is reviewing the final surveys.

Escalated Enforcement

- Team Industrial Services: Radiographer cited for unsecured materials and failure to detect assess and respond, non working alarming ratemeter and various others. Penalty calculation is being reviewed: ~\$10, 000.

Incidents, emergencies, etc.

- A few Thallium-204 GL sources were found abandoned outside of a veterinary clinic. RAM unit staff responded after receiving a call from police. Performed a survey, materials were close to background via decay and no exposure rates above background were detected. The materials were left in the possession of the property owner and EPA was utilized for the retrieval and disposal of the sources. The sources were designed for use in a device that measured thickness of plated metals.
- RAM Unit was contacted by NRC regarding a report from one of their licensees that smoke detector head units were received from a company in Colorado and they were found to have removable contamination on the exterior surface. RAM Unit contacted Colorado company and performed a site visit. After a review of the activities being performed at the site and a survey that indicated contamination in multiple areas, the department ordered the owner to cease operations, transfer all detectors on hand and contract with a service provider to decontaminate the facility. Ongoing.

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X-Ray Certification Unit Status

Current Projects:

- X-Ray Database
 - Database is being tested by staff
 - There are many “little” issues that need to be fixed before it can be used.
 - Capabilities
 - Phase I – only available to staff
 - Tracks facility and radiation machine registration information
 - Tracks radiation machine certification
 - Tracks registration of Qualified Inspectors and Service Companies.
 - Tracks waiver approval/denial
 - Can be used from any computer with internet access.
 - Still “manual” data entry
 - Not able to track operator registration (LSO, BDEO, CT, Provisional Mammography) or distribution of machine certification labels to QI’s.
 - Correspondence generation is a big hurdle to clear.
 - Phase II – open to registrants
 - Registrant will be able to log in and review and update their registration information.
 - Required annually even if no changes were made
 - QI’s and SC will be able to renew their registration
 - Fees can be paid on line
 - Certification process will be as close to “fool-proof” as possible
 - QI will log in to review machines at a facility they have scheduled
 - The software will generate inspection reports for the selected machines to the QI to complete. Can be done off-line.
 - The inspection reports can be uploaded to the software when the QI can get to an internet connection.
 - Essentially a paperless process
- Going Paperless
 - First step is to be able to generate our correspondence in an electronic format. Current database cannot, but staff is working on using the existing data to generate Adobe documents.
 - Email addresses
 - Staff has email addresses for Qualified Inspectors and service companies.
 - Email addresses for operators are collected from the applications and is stored in a separate database.
 - Facility contact email addresses must be collected

- Electronic registration has only been done by approximately 1000 facilities and so we have to collect about 4000 more.
- Postcards can be sent at \$0.30 each.
- Temporary Aide can be hired for \$12/hr and at a rate of 10 emails an hour, it will take approximately 400 hours.

Regulations & Special Projects Update
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Current Regulations in process:

- Parts 1, 3, and 18
 - Some additional changes made to Parts 1, and 18 – sent to stakeholders and RAC in early November
 - Rule is moving forward with rulemaking hearing on December 16

2016 Regulatory Changes / Regulatory Agenda

- The 2016 regulatory agenda is posted on the Department website:
<https://www.colorado.gov/pacific/cdphe/annual-departmental-regulatory-documents>
 - Parts 16 (well logging), Part 19 (irradiators), and Part 6 (x-ray imaging in healing arts) are on the schedule for amendment in 2016
 - The draft Part 16 & 19 rules will be sent to the RAC in early January
 - Presentation on industrial radiography and well logging is planned for the first RAC meeting of 2016.
 - The draft Part 6 rule is scheduled for RAC review in May

RAC Member Terms

- The announcement for the three openings on the RAC were sent out to stakeholders and the RAC in early November.
 - Have received applications from 6 individuals.
 - Application due date is Sunday, December 6
 - Appointments by Governor are anticipated by the end of year

RAC 2016 Meetings

- Considering 1/21/16 or 1/28/16 as possible meeting dates for the first meeting of 2016.