

MINUTES
RADIATION MANAGEMENT ADVISORY COUNCIL
 October 4, 2018
 Tulsa Technology Center-Riverside Campus
 Tulsa, Oklahoma

Official after RMAC Approved
 at March 28, 2019 meeting

Notice of Public Meeting – The Radiation Management Advisory Council convened for a Regular Meeting at 10:00 a.m. on October 4, 2018, at the Tulsa Technology Center-Riverside Campus, 801 East 91st Street, Tulsa, Oklahoma. The meeting was held in accordance with the Open Meeting Act, with notice of the meeting given to the Secretary of State on December 5, 2017. The Agenda was duly posted at the facility and at the DEQ twenty-four hours prior to the meeting. Mr. George MacDurmon, Chair, called the meeting to order. Ms. Quiana Fields called roll and a quorum was confirmed.

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| <p>MEMBERS PRESENT
 Wayne Conway
 Shawn Heldebrandt
 Karen Jennings
 Jeffrey Lux
 Chad Mashburn
 Charles Shepherd
 Kurt Steincamp
 George MacDurmon</p> | <p>DEQ STAFF PRESENT
 Mike Broderick
 Karen Jayne
 Keisha Cornelius
 Michael Reid
 Mike Stickney
 Quiana Fields</p> |
| <p>MEMBERS ABSENT
 Chris Honigsberg</p> | <p>OTHERS PRESENT
 Marlene Johnson, Court Reporter</p> |

Approval of Minutes – Mr. MacDurmon called for a motion to approve the Minutes of the April 6, 2017 Regular Meeting. Mr. Steincamp made the motion to approve and Dr. Jennings made the second.

See transcript page 4 - 5

Wayne Conway	Yes	Chad Mashburn	Yes
Shawn Heldebrandt	Yes	Charles Shepherd	Yes
Karen Jennings	Yes	Kurt Steincamp	Yes
Jeffrey Lux	Yes	George MacDurmon	Yes

Election of Officers for Council Year 2018 – Mr. Mike Broderick, Environmental Programs Manager of the Land Protection Division (LPD), presided over nominations for Chair. Mr. Broderick entertained a motion for Chair. Dr. Jennings made a motion to nominate Mr. MacDurmon and Mr. Steincamp made the second.

See transcript pages 5 - 6

Wayne Conway	Yes	Chad Mashburn	Yes
Shawn Heldebrandt	Yes	Charles Shepherd	Yes
Karen Jennings	Yes	Kurt Steincamp	Yes
Jeffrey Lux	Yes	George MacDurmon	Yes

Mr. Broderick turned it over to Mr. MacDurmon to open nominations for Vice-Chair. Mr. Steincamp made a motion to nominate Dr. Jennings as Vice-Chair and Mr. MacDurmon made the second.

See transcript pages 6 - 8

Wayne Conway	Yes	Chad Mashburn	Yes
Shawn Heldebrandt	Yes	Charles Shepherd	Yes
Karen Jennings	Yes	Kurt Steincamp	Yes
Jeffrey Lux	Yes	George MacDurmon	Yes

Introduction of members of the staff present – Mr. Broderick introduced himself and had the DEQ staff and Councilmembers introduce themselves as well.

See transcript pages 8 - 13

Introduction of members of public present – Casey Schmitz, Assistant Radiation Staff Officer of the University of Oklahoma introduced herself.

See transcript page 13

Section Activities and Events – Mr. Broderick provided an overview of several activities and events occurring within the Radiation Section.

See transcript pages 13 - 16

Report by the Chair on matters of interest - None

Report on Potential, Upcoming Rule Changes – Mr. Michael Reid talked on DEQ Radiation rule changes.

See transcript 16 – 18

Report on NRC amendments to Part 35 Medical Rules – Ms. Keisha Cornelius gave a presentation on NRC amendments to Part 35 Medical Rules.

See transcript pages 18 - 21

New Business – Dr. Jennings stated that she read that the EPA is considering easing up on the radiation rules.

See transcript pages 21 - 24

Next Meeting – The proposed RMAC meeting dates for 2019 will be on Thursday, March 28 in Oklahoma City and Thursday, September 26 in Tulsa, Oklahoma.

See transcript pages 24 - 28

Announcements – None

Adjournment – Mr. MacDurmon called for a motion to adjourn. Mr. Mashburn moved to approve and Mr. Shepherd made the second. Meeting adjourned at 10:35 a.m.

Transcript and Attendance Sheet are attached as an official part of these Minutes.

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

RADIATION MANAGEMENT ADVISORY COUNCIL

REGULAR MEETING

OCTOBER 4, 2018

Oklahoma Department of Environmental Quality
Tulsa Technology Center-Riverside
801 East 91st Street
Tulsa, Oklahoma

WORD FOR WORD REPORTING, L.L.C.
111 HARRISON AVENUE
SUITE 101
OKLAHOMA CITY, OKLAHOMA 73104
(405) 232-9673

REPORTED BY: MARLENE JOHNSON, CSR

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1 COUNCIL MEMBERS PRESENT:
2 Chairman George MacDurmon
Vice-Chair Dr. Karen Jennings
3 Mr. Wayne Conway
Mr. Jason Kurt Steincamp
4 Mr. Steve Woods
Mr. Shawn Heldebrandt
5 Mr. Chad Mashburn
Mr. Jeff Lux
6 Mr. Charles Shepherd
7
8 ALSO PRESENT:
9 Ms. Quiana Fields
Mr. Mike Broderick
10 Ms. Karen Jayne
Ms. Keisha Cornelius
11 Mr. Mike Stickney
Mr. Michael Reid
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1 MS. QUIANA FIELDS: Mr. Lux?
2 MR. JEFF LUX: Here.
3 MS. QUIANA FIELDS: Mr. Mashburn?
4 MR. CHAD MASHEBURN: Here.
5 MS. QUIANA FIELDS: Mr. Shepherd?
6 MR. CHARLES SHEPHERD: Here.
7 MS. QUIANA FIELDS: Mr. Steincamp?
8 MR. JASON KURT STEINCAMP: Here.
9 MS. QUIANA FIELDS: Mr. MacDurmon?
10 MR. GEORGE MACDURMON: Here.
11 MS. QUIANA FIELDS: We have a quorum.
12 MR. GEORGE MACDURMON: Thank you. Okay. The
13 next item on the agenda is the approval of the minutes
14 from our last meeting from April the 6th of 2017. So do
15 I hear a motion to approve the minutes?
16 MR. JASON KURT STEINCAMP: Motion to approve
17 the minutes.
18 DR. KAREN JENNINGS: Second.
19 MR. GEORGE MACDURMON: Ms. Fields?
20 MS. QUIANA FIELDS: Mr. Conway?
21 MR. WAYNE CONWAY: Yes.
22 MS. QUIANA FIELDS: Mr. Heldebrandt?
23 MR. SHAWN HELDEBRANDT: Yes.
24 MS. QUIANA FIELDS: Dr. Jennings?
25 DR. KAREN JENNINGS: Yes.

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1 CALL TO ORDER: 10:00 A.M.
2 MR. GEORGE MACDURMON: Okay. I'd like to call
3 this meeting to order. This October 4, 2018, public
4 meeting of the Radiation Management Advisory Counsel was
5 called in accordance with the Open Meeting Act.
6 Notice for this meeting was filed with the
7 Secretary of State on December 5th of 2017. The agenda
8 was duly posted 24 hours prior to the meeting at this
9 facility and at the DEQ.
10 Only matters appearing on the posted agenda may
11 be considered at this regular meeting. In the event that
12 this meeting is continued or reconvened, public notice of
13 the date, time and place of the continued meeting will be
14 given by announcement at this meeting.
15 Only matters appearing on the agenda of the
16 meeting which was continued may be discussed at the
17 continued or reconvened meeting.
18 Ms. Fields, roll call?
19 MS. QUIANA FIELDS: Mr. Conway?
20 MR. WAYNE CONWAY: Present.
21 MS. QUIANA FIELDS: Mr. Heldebrandt?
22 MR. SHAWN HELDEBRANDT: Present.
23 MS. QUIANA FIELDS: Mr. Honigsberg is absent.
24 Dr. Jennings?
25 DR. KAREN JENNINGS: Here.

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1 MS. QUIANA FIELDS: Mr. Lux.
2 MR. JEFF LUX: Yes.
3 MS. QUIANA FIELDS: Mr. Mashburn?
4 MR. CHAD MASHEBURN: Yes.
5 MS. QUIANA FIELDS: Mr. Shepherd?
6 MR. CHARLES SHEPHERD: Yes.
7 MS. QUIANA FIELDS: Mr. Steincamp?
8 MR. JASON KURT STEINCAMP: Yes.
9 MS. QUIANA FIELDS: Mr. MacDurmon?
10 MR. GEORGE MACDURMON: Yes.
11 MS. QUIANA FIELDS: Motion passed.
12 MR. GEORGE MACDURMON: Thank you. I guess the
13 next item is an election of officers.
14 MR. MIKE BRODERICK: And I'll take the gavel
15 for a moment. And so we'll entertain -- I love this.
16 For two minutes, I have all this power. But anyway, we
17 will entertain motions from the council for chairperson
18 of the council.
19 DR. KAREN JENNINGS: Mr. Chairman, I nominate
20 Mr. MacDurmon.
21 MR. MIKE BRODERICK: Mr. MacDurmon has been
22 nominated. Is there a second?
23 MR. JASON KURT STEINCAMP: Second.
24 MR. MIKE BRODERICK: We have a second. Any
25 other nominations for chair? Last call, any other

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1 nominations for chair? Then the nominations are ended.
2 I think my memory is you still want to call a vote?
3 MS. QUILANA FIELDS: Yes. Mr. Conway?
4 MR. WAYNE CONWAY: Yes.
5 MS. QUILANA FIELDS: Mr. Heldebrandt?
6 MR. SHAWN HELDEBRANDT: Yes.
7 MR. GEORGE MACDURMON: Dr. Jennings.
8 DR. KAREN JENNINGS: Yes.
9 MS. QUILANA FIELDS: Mr. Lux.
10 MR. JEFF LUX: Yes.
11 MS. QUILANA FIELDS: Mr. Mashburn?
12 MR. CHAD MASHBURN: Yes.
13 MS. QUILANA FIELDS: Mr. Shepherd?
14 MR. CHARLES SHEPHERD: Yes.
15 MS. QUILANA FIELDS: Mr. Steincamp.
16 MR. JASON KURT STEINCAMP: Yes.
17 MS. QUILANA FIELDS: Mr. MacDurmon?
18 MR. GEORGE MACDURMON: Abstain.
19 MS. QUILANA FIELDS: Motion passed.
20 MR. MIKE BRODERICK: I pass the gavel back to
21 Mr. MacDurmon and he can preside over the next item.
22 MR. GEORGE MACDURMON: And we have no other
23 office to --
24 MR. MIKE BRODERICK: I thought we elected them
25 by --

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1 MR. GEORGE MACDURMON: Well, that's my
2 question to you.
3 MR. MIKE BRODERICK: We usually elect a
4 vice-chair.
5 MR. GEORGE MACDURMON: Okay.
6 MR. MIKE BRODERICK: So I'll take nominations
7 for vice-chair of the council.
8 MR. JASON KURT STEINCAMP: I nominate Ms.
9 Jennings.
10 MR. GEORGE MACDURMON: Second. Ms. Fields.
11 MS. QUILANA FIELDS: Mr. Conway?
12 MR. WAYNE CONWAY: Yes.
13 MS. QUILANA FIELDS: Mr. Heldebrandt?
14 MR. SHAWN HELDEBRANDT: Yes.
15 MS. QUILANA FIELDS: Mr. Lux?
16 MR. JEFF LUX: Yes.
17 MS. QUILANA FIELDS: Mr. Mashburn?
18 MR. CHAD MASHBURN: Yes.
19 MS. QUILANA FIELDS: Mr. Shepherd?
20 MR. CHARLES SHEPHERD: Yes.
21 MS. QUILANA FIELDS: Mr. Steincamp?
22 MR. JASON KURT STEINCAMP: Yes.
23 MS. QUILANA FIELDS: Dr. Jennings?
24 DR. KAREN JENNINGS: No.
25 MS. QUILANA FIELDS: Mr. MacDurmon?

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1 MR. GEORGE MACDURMON: Yes.
2 MS. QUILANA FIELDS: Motion passed.
3 MR. GEORGE MACDURMON: Okay. Mr. Broderick?
4 MR. MIKE BRODERICK: First, I want to thank
5 all the members of the council for being here. This is
6 an essential part of DEQ. We have radiation rules. The
7 board has the final approval. We have nobody, at least
8 to my knowledge, on the board with any radiation
9 background. For a long time, we had one person that had
10 some but not now so the board depends heavily on your
11 recommendation for rules. And we do have some rule
12 making which we have coming up which we're going to
13 brief you on today. And this, frankly, is not very
14 controversial or it's not a huge deal. But we have had,
15 in the past and probably will in the future, have some
16 very -- Karen has been here a long time and she can tell
17 you in the past we've had some very intensive
18 discussions about rule making. So I really appreciate
19 that you guys are essential, an essential part of this.
20 Having done that, for the staff, I'm Mike Broderick.
21 Most of the people here know me. I'm the manager of the
22 Radiation Section and I'm going to ask just the DEQ
23 staff. We have a new attorney, so I want to
24 particularly mention her.
25 Karen, would introduce yourself?

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1 MS. KAREN JAYNE: I'm Karen Jayne and I am new
2 to the radiation program, but I've been with DEQ for, I
3 think, 18 years on the 20th of September. I'm glad to
4 be here.
5 MR. MIKE BRODERICK: Pam is still happy and
6 healthy with the DEQ, but she's moving doing some other
7 duties now. She's still around. She's able to advise
8 Karen. She's got a lot to learn. There's a lot here to
9 learn.
10 Keisha?
11 MS. KEISHA CORNELIUS: I'm Keisha Cornelius
12 with DEQ radiation.
13 MR. MIKE STICKNEY: My name is Mike Stickney
14 and I work in hazardous waste and radiation. I've been
15 directly associated with the radiation section for a
16 little over two years now.
17 MR. MICHAEL REID: Michael Reid, DEQ radiation
18 section, inspections and licensing. And that's about
19 it.
20 MR. MIKE BRODERICK: The council members are
21 kind of in between the public and the staff. We do have
22 a couple of new council members now, as you'll notice.
23 I can tell you Steve Woods has retired. I spoke to him
24 on the phone and he's retired and he's happy and he did
25 not want to continue. He wants to other things, fly

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1 fishing and other things rather than be on the council.
2 DR. KAREN JENNINGS: How is his health?
3 MR. MIKE BRODERICK: His health, when I talked
4 to him -- last time we saw him, I think at the last
5 meeting, and he was doing really well. He said he was
6 still doing well, still doing fly fishing and he seems
7 to be in good health, but he just has other priorities.
8 So he's stepped down and Jeff Lux, we'll introduce him,
9 has taken his position. His profession is as a
10 professional engineer. That's one of the council
11 positions and Jeff Lux is stepping in.
12 And for the benefit of the new members, we have
13 another new member, Charles Shepherd. He'll be replacing
14 Eric Mitchell. But for the benefit of everybody, it's
15 been a while since we met and, particularly, for the new
16 people, I'd ask that we have the council members go
17 around and introduce themselves.
18 MR. JASON KURT STEINCAMP: Kurt Steincamp. I'm
19 with Cardinal Health. We just changed our name. It's
20 Nuclear and Precision Health Solutions. It's a nuclear
21 pharmacy in Oklahoma City.
22 MR. CHAD MASHBURN: My name is Charles
23 Shepherd. I work for American Airlines, their RSL. I
24 come with 28 years of aerospace experience starting from
25 the floor as an inspector working with radioactive

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1 materials, both in the states of Texas and Oklahoma.
2 So, hopefully, I can contribute to this organization.
3 MR. CHAD MASHBURN: Chad Mashburn with
4 Phillips 66 and --
5 THE REPORTER: I'm sorry, I didn't hear what
6 you last said.
7 DR. KAREN JENNINGS: He said a lot of
8 experience.
9 MR. JEFF LUX: I'm Jeff Lux. I work for
10 Environmental Properties Management, a subsidiary of
11 Burns & McDonnell Company. I have been project manager for
12 a number of nuclear decommissioning projects almost exclusive
13 either fuel cycle facilities or naturally occurring
14 radioactive material known as TENORM sites and I've
15 been working in that field since, I guess, 1994.
16 DR. KAREN JENNINGS: And I'm Karen Jennings
17 and I am a retired school teacher. I taught high school
18 chemistry for 33 years and I am still working part time
19 as science curriculum director for our public schools.
20 And I went to graduate school with Mike in the early
21 '90s and we graduated, I think, the same year with our
22 Master's.
23 MR. GEORGE MACDURMON: I'm George MacDurmon,
24 I'm radiation safety officer for the University of
25 Oklahoma Health Sciences Center and the main campus in

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1 Norman.
2 MR. SHAWN HELDEBRANDT: I'm Shawn Heldebrandt.
3 I'm a medical physicist of RSO at Hillcrest Medical
4 Center.
5 MR. WAYNE CONWAY: I'm Wayne Conway. I'm a
6 manager and RSO for a local nondestructive testing firm,
7 Capital X-ray Services.
8 MR. MIKE BRODERICK: Quiana, I neglected to
9 mention you and your staff. I should have. Would you
10 introduce yourself?
11 MS. QUIANA FIELDS: I'm Quiana Fields. I'm
12 the administrative program officer for DEQ. Pretty much
13 the secretary for the board and council.
14 MR. MIKE BRODERICK: I'll mention one other
15 thing. I talked a little bit about Steve Woods. I
16 spent some time on him because he was a fixture. When I
17 think of myself, I'm not a dinosaur but I've been at
18 this job since 1994. Steve Woods was here when I came.
19 That's how long he has been here. He was chairman of
20 the council for many years. We want to recognize him in
21 some way. And probably when we have a meeting in
22 Oklahoma City, I'm hoping to get him to drive up and
23 have a plaque or something to recognize him, but he
24 didn't want to drive to Tulsa. It's a drive for him.
25 But at least, hopefully, you will get to see Steve Woods

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1 one more time.
2 MR. GEORGE MACDURMON: Okay. Members of the
3 public?
4 MR. MIKE BRODERICK: We have one member of the
5 public.
6 MS. CASEY SMITH: My name is Casey Smith. I'm
7 the assistant radiation staff officer at the University
8 of Oklahoma. George's partner in crime.
9 MR. GEORGE MACDURMON: Okay. Special
10 activities and events.
11 MR. MIKE BRODERICK: Yes. Well, you may
12 notice my hair is pretty gray but it may be slightly
13 more gray than it was two weeks ago. Last week, we had
14 the Nuclear Regulatory Commission come for its every
15 four years, as I refer to it, as a proctological
16 examination of our program. They had a team of five
17 people come in and spend a week here. If you think our
18 inspections are a pain, they send five people. They
19 spend four days with outreach on the last day. But it's
20 quite an experience every four years. As I mostly joke
21 about it, I get to keep my job for another four years.
22 Their recommendation -- they evaluate us on six areas.
23 And the good news is we got the highest possible rating
24 in all the six areas. Now, the bad news is that's
25 satisfactory. They don't give As. But, nevertheless,

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1 it is the highest rating you can get. They did have one
2 recommendation. We have -- to make a long story short,
3 we out-brief people when we do the inspections. We have
4 an out-brief where we leave, but they would like to get
5 the written results to people faster and we're going to
6 work on doing that, getting our written report out
7 faster. So we did have that one recommendation. But we
8 got a very good rating overall. That was the
9 recommendation of the team that did the evaluation. NRC
10 management will look at it. In theory, they could change
11 something in this and that has happened. It has
12 happened. But it's not expected to happen this time.
13 So that will probably be affirmed when management has
14 reviewed it.

15 Other than that, John Flynn, many of you knew,
16 he has been with us for many years. He has retired. He
17 went to Pennsylvania. His parents needed him and he's
18 ready to retire so he is gone. We have several new
19 people. Our administrative person is Sierra Mayfield.
20 You've seen her card there. She's new.

21 And we have a new technical staff member. He
22 would probably normally be here but his dog is getting
23 operated on today. So Jordan Caldwell, some of you may
24 have met on inspections. He has a Bachelor's in medical
25 physics, actually, so he has a pretty good background for

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1 us, but you will see him over time.

2 We haven't had any earthshattering events in
3 the section. For the Agency as a whole, we've had drama,
4 basically, for the budget, like every state agency. But
5 our budgeting is sound.

6 For the section, like approximately 90 percent
7 of our funding is from the user fees, license fees, which
8 the licensees pay. The remainder is from a federal
9 grant. We have a grant to operate on so our sections
10 funding is good. That's something I can give you
11 assurance on. We're in pretty sound shape. And that's
12 true for most of DEQ. There are, I believe, six major
13 divisions of DEQ and, if I remember right, two of them
14 get a little bit of money from the legislature. But the
15 greater majority of all of DEQ was set up deliberately
16 when our industry was created as a fee funded. And that
17 means that the drama of -- the legislative drama doesn't
18 affect us as much as it does some other state agencies.
19 So we're in pretty good shape from that.

20 Mike, do you have any from an upper management
21 perspective to add?

22 MR. MIKE STICKNEY: I think you've covered
23 everything.

24 MR. MIKE BRODERICK: Keisha or Michael, have I
25 forgotten anything? That concludes my briefing on

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1 section activities and events.

2 MR. GEORGE MACDURMON: Thank you. The next
3 item on the agenda is a report from me and I don't have
4 anything to report. So we will move on the Item Number
5 9, report on potential upcoming rule changes.

6 Mr. Reid.

7 MR. MICHAEL REID: Okay. Under our general
8 provisions, there's exclusions added to that. And by
9 reference, we adopt the Nuclear Regulatory Commission's
10 rules. When we adopted 10 CFR 40, which covers source
11 material, we made a mistake in the section on
12 unimportant quantities of source material. In a list of
13 five types of unimportant quantities of source material,
14 we intended for them to be excluded from our rules and
15 reserves, NRC, but we accidentally excluded all five.
16 The fifth category is, basically, depleted uranium
17 counterweights. And that should not have been excluded
18 and it is under DEQ jurisdiction. So we will be doing
19 rule making probably starting at the next RMAC meeting
20 at the first of the year. March, I believe.

21 MR. MIKE BRODERICK: We'll talk about the date
22 later, potential dates.

23 DR. KAREN JENNINGS: 10 CRF?

24 MR. MIKE BRODERICK: 10 CFR 40.13?

25 MR. MICHAEL REID: Yes. That's specifically

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1 under OHC 252:410-10-1(b)(7) under the Oklahoma
2 Administrative Code.

3 MR. MIKE BRODERICK: That's the state rule.

4 MR. MICHAEL REID: Yeah, that is what
5 references CFR 40, part 13.

6 DR. KAREN JENNINGS: Thank you.

7 MR. MIKE BRODERICK: 40.13. So we'll be doing
8 rule making. Next, we will have a rule making to
9 correct that and some supporting things that fit in with
10 that.

11 MR. JEFF LUX: Just to make sure I understand
12 that correctly.

13 MR. MIKE BRODERICK: Yes, sir.

14 MR. JEFF LUX: Just to make I understand that
15 correctly. The federal regulations exempted five
16 different categories. DEQ wanted to retain regulation
17 of DE counterweights, is that correct?

18 MR. MIKE BRODERICK: Not exactly right.
19 There's various things listed in the federal rules.
20 DEQ, for most source material, that's part of the reason
21 that, frankly, we messed this up because this is
22 complicated.

23 Because of some of the old cleanup sites, we
24 wanted those to stay with the NRC, but we had an
25 agreement to stay. So most sources agree the cleanup

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1 sites all have source material or most have source
2 material. And so we wrote our rules, did our agreement
3 to keep source material with the NRC. And we should
4 have -- there's a list of five things there and four of
5 those things we should have included in exemptions from
6 our rule. They've been exempted from our rules because
7 they are still under federal jurisdiction. We
8 accidentally exempted all five so it depleted uranium
9 counterweights. We don't have much to do with those.
10 I've seen one twice in 24 years. Hopefully, we won't
11 have any enforcement or have any issues with those
12 because our jurisdiction is kind of nebulous. The NRC
13 views that we have, but we did not adopt a rule that
14 included it.

15 MR. GEORGE MACDURMON: Any other questions or
16 comments? Is that your report, Mr. Reid?

17 MR. MICHAEL REID: Yes, sir.

18 MR. GEORGE MACDURMON: All right. The next up
19 on the agenda is a report on NRC amendments to part 35,
20 which is the medical rule.

21 Ms. Cornelius.

22 MS. KEISHA CORNELIUS: I have a PowerPoint. I
23 hope everybody has a handout. There's a handout part
24 also. It's on the screen up there, also.

25 NRC has made an amendment to 10 CFR 35, which

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1 is the medical of use of byproduct material, so these are
2 only for our medical licensees. There's a timeline on
3 the event. The final rule and guidance were published in
4 the Federal Register in July. And if anybody needs a
5 link for a copy of that, you can e-mail me and I can
6 e-mail you the link to it. NRC plans to have training
7 sessions for NRC staff, agreement state staff and all
8 medical licensees from now through March of next year so
9 that all our licensees will be up on the new changes.
10 The final rule is effective for all NRC licensees on
11 January 14, 2019. And DEQ has three years from that to
12 be compatible with all the NRC rules. And here are some
13 of the things that are the major changes to the rules.
14 One of them is on brachytherapy reporting for medical
15 events. And there will be separate reporting
16 requirements for brachytherapy.

17 For authorized users, if an authorized user has
18 a board certification from an approved NRC board, they do
19 not have to have a preceptor statement. We were waiting
20 on that for ten years. And the preceptor statements can
21 also be signed by residency program directors if they
22 need one.

23 There's certain training and experience that's
24 been grandfathered in and you can also add an associate
25 radiation safety officer to medical licenses only. And

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1 an ophthalmologist can be named on a license now.
2 So those are the major changes. I don't see
3 anything very controversial about those changes so we
4 have three years to become compatible with these
5 provisions. Anyone have any questions about those?

6 MR. JASON KURT STEINCAMP: The communication
7 and the training on the NRC, how is that going to
8 trickle down?

9 MS. KEISHA CORNELIUS: It will be a Webinar
10 and usually they send it out to the medical community.

11 MR. JASON KURT STEINCAMP: Okay.

12 MS. KEISHA CORNELIUS: If we know, can we send
13 it to our licensees so they can have the training also.

14 MS. CASEY SMITH: When it says added
15 Molybdenum contamination measurement for each elution,
16 is that for departments that are doing in-house
17 generator stuff or would that apply to getting something
18 from a nuclear pharmacist?

19 MS. KEISHA CORNELIUS: Just if you're eluting
20 a generator. So if you have an in-house generator or
21 the pharmacy, so you wouldn't have to do that if you're
22 getting it from the department.

23 MS. CASEY SMITH: Okay, great.

24 MR. WAYNE CONWAY: Hopefully, we can get that
25 appraisal going with the machinery within the next --

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1 for the exclusions also. Is it possible start at the
2 next --

3 MR. GEORGE MACDURMON: Oh, for approving these
4 changes?

5 MR. WAYNE CONWAY: Yes.

6 MR. GEORGE MACDURMON: Okay.

7 MR. MIKE BRODERICK: I couldn't hear what you
8 said, Wayne.

9 MR. GEORGE MACDURMON: He said that the RMAC
10 would receive the proposal to approve the changes at the
11 next meeting.

12 MR. MIKE BRODERICK: That's our plan, yes.

13 MR. GEORGE MACDURMON: Any other questions or
14 comments? Okay. Item Number 11 is new business. Any
15 new business? Any matter not known about or which could
16 not have been reasonably foreseen prior to posting this
17 agenda.

18 DR. KAREN JENNINGS: I have one question to
19 ask Mike about that because I read that the EPA is
20 considering easing up on the radiation rules, like
21 radiation is actually going to be good for us.

22 MR. MIKE BRODERICK: I, myself, was thinking
23 about that this morning. While Michael was driving in
24 the car, I was on my phone looking around and I read an
25 article about that. We don't have as good of a

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1 communication with the EPA as we do with the NRC so all
2 I know about that is what the media reports. I know
3 there is an idea called hormesis, which she talked about
4 in graduate school, Dr. Lawrence talked to us about
5 many, many years ago, which I think they're basing their
6 ideas on that. Now, hormesis is not a crackpot idea and
7 there's evidence that shows it can have a effect.
8 Whether we should have any rules, I don't think
9 everybody agrees with.

10 DR. KAREN JENNINGS: I was just curious if
11 you've had any enforcements on it.

12 MR. MIKE BRODERICK: Most of what we regulate
13 is set by the NRC and I have not heard of that from the
14 NRC. The EPA, they do some things. If I recall
15 correctly, they have some role in the spent nuclear
16 fuel, the regulation of that, and they definitely do
17 radon. I have heard of that in connection with radon.
18 So I don't, honestly, anticipate that affecting what our
19 agency does in radiation.

20 MR. GEORGE MACDURMON: There's actually,
21 internationally, they're going the other way, to lower
22 the occupational radiation dose limits. And, in fact,
23 in the EU rules already and I think in most of the
24 British Commonwealth countries, there is reduced eye
25 doses and full body doses as well, deep doses, to two

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1 rems per year.

2 MR. MIKE BRODERICK: It's five now.

3 MR. GEORGE MACDURMON: Five and 15 for the
4 lens of the eye now. So as Mike said, the EPA doesn't
5 regulate a lot of what the DEQ regulates. And so my
6 anticipation is that our dose limits are going to be
7 affected by what the NRC does, not the EPA. And the NRC
8 has been looking at these international rules that are
9 in place and trying to determine what we're going to do
10 in the United States. There hasn't been a determination
11 of that yet. The momentum is in the other direction.

12 MR. MIKE BRODERICK: Correct.

13 DR. KAREN JENNINGS: Okay. Thank you.

14 MR. MIKE BRODERICK: I can add, for the NRC,
15 the changes that George was talking about, particularly
16 the five rem and the 15 rem for a worker's dose and the
17 dose to the eye. The dose to the eye, I understand,
18 would cause a lot of problems for radiologists who use
19 fluoroscope. I'd refer to George about that.

20 MR. GEORGE MACDURMON: And their radiation
21 safety officers, I'm sure, would have a problem.

22 MR. MIKE BRODERICK: You might have a problem.
23 And for industrial radiographers, which are very
24 important in Oklahoma, the oil and gas industry, the
25 five rem to two rem would take, that would have a major

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1 effect. I can tell you there is no, there's no move to
2 immediately adopt these. The NRC, my impression is
3 they're not eager to move forward with this, frankly.

4 DR. KAREN JENNINGS: So we have another rem
5 full?

6 MR. GEORGE MACDURMON: Oh, yes.

7 MR. MIKE BRODERICK: Frankly, I'll give you my
8 view on this. I'm about to turn 60 and I don't expect
9 these to be adopted while I'm still working. I'll put
10 it that way.

11 MR. GEORGE MACDURMON: Any other new business?

12 Okay.

13 Mr. Broderick, the next meeting?

14 MR. MIKE BRODERICK: I would like to schedule
15 two meetings next year. I don't know that we will need
16 them, but I would like to have two set. And I've got
17 two proposed dates, date ranges, actually. If these
18 don't work for a significant number then we can change
19 them but I suggest March 22nd or 29th for the first the
20 one. I'm assuming you want to continue to meet on
21 Thursdays. And September 19th or 26th for the second
22 one.

23 DR. KAREN JENNINGS: March 27?

24 MR. MIKE BRODERICK: March 22nd or 29th for
25 the first one and September 19th or 26th for the second

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1 one.

2 DR. KAREN JENNINGS: I don't know. Is that a
3 Thursday?

4 MR. MIKE BRODERICK: Yeah, unless I made a big
5 mistake.

6 DR. KAREN JENNINGS: I don't know. I'm on
7 2019, March.

8 MR. MIKE BRODERICK: Maybe I looked at the
9 2018 calendar by mistake. I hope not. And it looks
10 like I looked at a different year's calendar because
11 looking at these now, I agree.

12 MR. GEORGE MACDURMON: Those are fly dates.
13 So the 21st and the 28th in March. In September, you
14 did get Thursdays in September.

15 MR. MIKE BRODERICK: Okay.

16 MR. GEORGE MACDURMON: So you did only look at
17 one wrong calendar.

18 MR. MIKE BRODERICK: I apologize for that.
19 Quiana has an interest in this because she has to be at
20 pretty much all of our meetings. If we used -- let's
21 see, March 14th and 21st or, pardon me, 21st and 28th?
22 Do you have your calendar with you?

23 MS. QUIANA FIELDS: We talked about it
24 yesterday. We were good.

25 MR. MIKE BRODERICK: You're comfortable?

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1 MS. QUIANA FIELDS: Either one, uh-huh.
2 MR. MIKE BRODERICK: Either one. Okay. So
3 the 21st or 28th?
4 MR. GEORGE MACDURMON: The 21st.
5 MR. MIKE BRODERICK: So it's up to the
6 council. Do you want to go with the 21st then?
7 MR. GEORGE MACDURMON: Everybody okay with the
8 21st?
9 MR. JEFF LUX: My calendar says that
10 March 21st is a holiday.
11 DR. KAREN JENNINGS: It's a holi. H-O-L-I is
12 what it says. What is that?
13 MR. JEFF LUX: It's not spring break.
14 MR. MIKE BRODERICK: I've got that same.
15 MR. JEFF LUX: But there's nothing identified
16 what the holiday is.
17 DR. KAREN JENNINGS: Mine says H-O-L-I.
18 MR. MIKE BRODERICK: Well, we have no problem
19 doing the 28th. Shall we do the 28th in the event that
20 someone figures out what they're celebrating that day?
21 MR. WAYNE CONWAY: I'm good with the 28th.
22 MR. MIKE BRODERICK: March 28th.
23 MR. SHAWN HELDEBRANDT: It's the 16th day of
24 Lent, which is apparently a moderately important date in
25 the Catholic calendar.

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1 MR. MIKE BRODERICK: Okay. Well, there you
2 go. And in September, we can go with -- I was going to
3 do what you did and look at 2020. Let's do
4 September 19th? Everyone okay with September 19th?
5 MR. CHARLES SHEPHERD: I may have a conflict.
6 MR. MIKE BRODERICK: All right. How about the
7 26th?
8 MR. CHARLES SHEPHERD: The 26th would be good.
9 MR. MIKE BRODERICK: All right. September 26.
10 MR. GEORGE MACDURMON: So March 28th and
11 September 26?
12 MR. MIKE BRODERICK: Yeah.
13 DR. KAREN JENNINGS: Okay. Is it in Tulsa?
14 MR. GEORGE MACDURMON: The next one, the March
15 one, will be in Oklahoma City and the September one will
16 be back here probably, maybe in this same room. It will
17 certainly be the same building in Tulsa.
18 MR. MIKE BRODERICK: Okay.
19 MR. GEORGE MACDURMON: All right. Are there
20 any announcements?
21 MS. KAREN JAYNE: I think you need to vote on
22 the date, call a roll call.
23 MR. GEORGE MACDURMON: Okay.
24 MS. KAREN JAYNE: Do we have a motion and then
25 a second and then some votes. A motion including the

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1 dates would be appropriate and then someone seconding,
2 and then we can go forward.
3 MR. JEFF LUX: I will approve March 28 and
4 September 26 as the two days for meetings for next year.
5 MR. GEORGE MACDURMON: Do I hear a second?
6 MR. JASON KURT STEINCAMP: Second.
7 MR. GEORGE MACDURMON: Ms. Fields?
8 MS. QUIANA FIELDS: Mr. Conway?
9 MR. WAYNE CONWAY: Yes.
10 MS. QUIANA FIELDS: Mr. Heldebrandt?
11 MR. SHAWN HELDEBRANDT: Yes.
12 MS. QUIANA FIELDS: Dr. Jennings?
13 DR. KAREN JENNINGS: Yes.
14 MS. QUIANA FIELDS: Mr. Lux?
15 MR. JEFF LUX: Yes.
16 MS. QUIANA FIELDS: Mr. Mashburn?
17 MR. CHAD MASHEBURN: Yes.
18 MS. QUIANA FIELDS: Mr. Shepherd?
19 MR. CHARLES SHEPHERD: Yes.
20 MS. QUIANA FIELDS: Mr. Steincamp?
21 MR. JASON KURT STEINCAMP: Yes.
22 MS. QUIANA FIELDS: Mr. MacDurmon?
23 MR. GEORGE MACDURMON: Yes.
24 MS. QUIANA FIELDS: Motion passed.
25 MR. GEORGE MACDURMON: Mr. Broderick, any

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1 announcements?
2 MR. MIKE BRODERICK: I don't have anything
3 else that we haven't talked about.
4 MR. GEORGE MACDURMON: Okay. Well, then do I
5 hear a motion to adjourn? Do we need a motion to
6 adjourn?
7 MS. KAREN JAYNE: Go for it.
8 MR. GEORGE MACDURMON: Go for it.
9 MR. CHAD MASHEBURN: Okay. I make a motion to
10 adjourn.
11 MR. GEORGE MACDURMON: Second?
12 MR. CHARLES SHEPHERD: Second.
13 MR. GEORGE MACDURMON: Okay. Can we get a
14 roll call, please?
15 MS. QUIANA FIELDS: Mr. Conway?
16 MR. WAYNE CONWAY: Yes.
17 MS. QUIANA FIELDS: Mr. Heldebrandt?
18 MR. SHAWN HELDEBRANDT: Yes.
19 MS. QUIANA FIELDS: Dr. Jennings?
20 DR. KAREN JENNINGS: Yes.
21 MS. QUIANA FIELDS: Mr. Lux?
22 MR. JEFF LUX: Yes.
23 MS. QUIANA FIELDS: Mr. Mashburn?
24 MR. CHAD MASHEBURN: Yes.
25 MS. QUIANA FIELDS: Mr. Shepherd?

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1 MR. CHARLES SHEPHERD: Yes.
2 MS. QULANA FIELDS: Mr. Steincamp?
3 MR. JASON KURT STEINCAMP: Yes.
4 MS. QULANA FIELDS: Mr. MacDurmon?
5 MR. GEORGE MACDURMON: Yes.
6 MS. QULANA FIELDS: Motion passed.
7 MR. GEORGE MACDURMON: Meeting is adjourned.
8 ADJOURNMENT: 10:35 A.M.
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1
2 C E R T I F I C A T E
3
4 STATE OF OKLAHOMA)
5) ss.
6 COUNTY OF TULSA)
7 I, Marlene Johnson, a certified shorthand
8 reporter within and for the State of Oklahoma, certify
9 that the above meeting was taken by me in stenotype and
10 thereafter transcribed by computer and is a true and
11 correct transcript of the testimony of the witness; that
12 the meeting was taken on the 4th day of October, 2018, in
13 Tulsa, Oklahoma; that I am not an attorney for or a
14 relative of any party, or otherwise interested in this
15 action.
16 Witness my hand and seal of office on this the
17 15th day of October, 2018.
18
19 Marlene Johnson, CSR
20 Marlene Johnson, CSR
21 CSR No. 322
22
23
24
25



**RADIATION MANAGEMENT
ADVISORY COUNCIL**

Attendance Record

October 4, 2018

Tulsa, Oklahoma

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