

MINUTES
RADIATION MANAGEMENT ADVISORY COUNCIL
 October 20, 2022

Official after RMAC Approved
 at January 16, 2024 meeting

Notice of Public Meeting – The Radiation Management Advisory Council convened for a Regular Meeting at 10:00 a.m. on October 20, 2022 at the Department of Environmental Quality, 707 North Robinson, Oklahoma City, Oklahoma. The meeting was held in accordance with the Open Meeting Act, with notice of the meeting given to the Secretary of State on November 3, 2021. The agenda was duly posted 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
 David Alcorn
 Chris Honigsberg
 Karen Jennings
 Eric Noble
 George MacDurmon</p> <p>MEMBERS ABSENT
 Shawn Heldebrandt
 Chad Mashburn</p> | <p>DEQ STAFF PRESENT
 Mike Broderick
 Kole Kennedy
 Bruce Adams
 Kelly Dixon
 Karen Jayne
 Michelle Wynn
 Quiana Fields</p> <p>OTHERS PRESENT
 Jenny Longley, Court Reporter</p> |
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Approval of Minutes – Mr. MacDurmon called for a motion to approve the Minutes of the September 30, 2021 Regular Meeting. Mr. Honigsberg made the motion to approve and Dr. Jennings made the second.

See transcript pages 3 – 4

David Alcorn	Yes	George MacDurmon	Yes
Chris Honigsberg	Yes		
Karen Jennings	Yes		
Eric Noble	Yes		

Election of Officers for Council Year 2023 – Mr. MacDurmon turned the meeting over to Mr. Broderick to open the floor for Chair nominations. Mr. Honigsberg made a motion to nominate Mr. MacDurmon for Chair. Mr. Alcorn made the second

See transcript pages 4 – 5

David Alcorn	Yes	George MacDurmon	Yes
Chris Honigsberg	Yes		
Karen Jennings	Yes		
Eric Noble	Yes		

Mr. MacDurmon open the floor for Vice-Chair nominations. Mr. MacDurmon made a motion to nominate Dr. Jennings as Vice-Chair and Mr. Alcorn made the second.

See transcript pages 5 – 6

David Alcorn	Yes	George MacDurmon	Yes
Chris Honigsberg	Yes		
Karen Jennings	Yes		
Eric Noble	Yes		

Introduction of members of the Staff Present – Mr. Broderick introduced himself and other DEQ staff.

See transcript pages 6 – 7

Introduction of members of Public Present – There were no members of the public present.

See transcript page 7

Briefing on Anticipated 2023 Changes to Chapter 410 – Mr. Mike Broderick, Radiation Manager of the LPD, stated that the Department of Environmental Quality anticipated proposing to amend OAC 252:410 as recommended by the Nuclear Regulatory Commission (NRC). The proposed changes will be necessary to bring Oklahoma rules into full compatibility with the federal rules.

See transcript pages 7 – 19

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

See transcript pages 19 - 36

Report by the Chair on Matters of Interest – Mr. MacDurmon recognized Mr. Broderick for his leadership position in radiation.

See transcript pages 36 – 38

New Business – None

Next Meeting – Mr. Broderick stated each year at this time, the Council sets meeting dates for the next calendar year. The dates proposed are March 23 in Tulsa and September 21 in Oklahoma City. Hearing no discussion, Mr. MacDurmon called for a motion to approve the 2023 Council dates. Mr. Noble made a motion and Mr. Alcorn made the second.

See transcript pages 39 - 41

David Alcorn	Yes	George MacDurmon	Yes
Chris Honigsberg	Yes		
Karen Jennings	Yes		
Eric Noble	Yes		

Announcements – Mr. Kole Kennedy of the LPD, spoke on going electronic for all meetings as a continuous improvement of the agency.

See transcript pages 41 - 43

Adjournment – Mr. MacDurmon called for a motion to adjourn. Mr. Honigsberg moved to adjourn and Dr. Jennings made the second. Meeting adjourned at 10:55 a.m.

See transcript page 43

David Alcorn	Yes	George MacDurmon	Yes
Chris Honigsberg	Yes		
Karen Jennings	Yes		
Eric Noble	Yes		

Transcript and attendance sheet are attached as an official part of these Minutes.

1

REGULAR MEETING

2

DEPARTMENT OF ENVIRONMENTAL QUALITY

3

RADIATION MANAGEMENT ADVISORY COUNCIL

4

OCTOBER 20, 2022, 10:00 AM

5

6

MEMBERS PRESENT

DEQ STAFF PRESENT

7

L. David Alcorn

Michael Broderick

8

Mr. George MacDurmon

Kelly Dixon

9

Chris Honigsberg

Kole Kennedy

10

Dr. Karen Jennings

Karen M. Jayne

11

Eric Noble

Michelle Wynn

12

Bruce Adams

13

Quiana Fields

14

MEMBERS ABSENT

15

Shawn Heldebrandt

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Chad Mashburn

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REPORTED BY: Jenny Longley, CSR

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1 PROCEEDINGS

2 CHAIRMAN MACDURMON: Good morning and

3 welcome to the October 20, 2022 Regular Meeting of

4 the Radiation Management Advisory Council, which was

5 called in accordance with the Open Meeting Act.

6 Notice for this meeting was filed

7 with the Secretary of State on November 3, 2021.

8 The Agenda was duly posted 24 hours prior to the

9 meeting at the DEQ.

10 Only matters appearing on the posted

11 Agenda may be considered at this Regular Meeting.

12 In the event that this meeting is continued or

13 reconvened, public notice of the date, time, and

14 place of the continued meeting will be given by

15 announcement at this meeting. Only matters

16 appearing on the Agenda of a meeting which is

17 continued may be discussed at the continued or

18 reconvened meeting.

19 With that, can we have a roll call,

20 Ms. Fields?

21 MS. FIELDS: Mr. Alcorn?

22 MR. ALCORN: Present.

23 MS. FIELDS: Mr. Heldebrandt is absent.

24 Mr. Honigsberg?

25 MR. HONIGSBERG: Present.

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1 MS. FIELDS: Dr. Jennings?

2 DR. JENNINGS: Here.

3 MS. FIELDS: Mr. Mashburn is absent.

4 Mr. Noble?

5 MR. NOBLE: Here.

6 MS. FIELDS: Mr. MacDurmon?

7 CHAIRMAN MACDURMON: Here.

8 MS. FIELDS: We have a quorum.

9 CHAIRMAN MACDURMON: Thank you.

10 And with that, I'll accept motions

11 for the approval of the minutes.

12 MR. HONIGSBERG: Motion to approve the

13 minutes.

14 CHAIRMAN MACDURMON: Is there a second?

15 DR. JENNINGS: Second.

16 CHAIRMAN MACDURMON: Ms. Fields?

17 MS. FIELDS: Mr. Alcorn?

18 MR. ALCORN: Approved.

19 MS. FIELDS: Mr. Honigsberg?

20 MR. HONIGSBERG: Approved.

21 MS. FIELDS: Dr. Jennings?

22 DR. JENNINGS: Yes.

23 MS. FIELDS: Mr. Noble?

24 MR. NOBLE: Approved.

25 MS. FIELDS: Mr. MacDurmon?

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1 CHAIRMAN MACDURMON: Approved.

2 MS. FIELDS: Motion passed.

3 CHAIRMAN MACDURMON: Thank you.

4 The next item on the Agenda is the

5 election of officers for the council year 2023, and

6 for that -- for the nominations for the position of

7 Chair, I'll turn the meeting over to Mr. Broderick.

8 MR. BRODERICK: Thank you, George. We

9 will take nominations for the position of Chair.

10 MR. HONIGSBERG: I nominate Mr. MacDurmon.

11 MR. BRODERICK: Chris Honigsberg has

12 nominated Mr. MacDurmon. Is there a second?

13 MR. ALCORN: Second.

14 MR. BRODERICK: What other nominations,

15 any other nominations?

16 One last call.

17 Then I'll declare nominations closed.

18 We have the nomination for Mr. MacDurmon, and as I

19 recall, you want a roll call.

20 MS. FIELDS: Yes.

21 Mr. Alcorn?

22 MR. ALCORN: Approved.

23 MS. FIELDS: Mr. Honigsberg?

24 MR. HONIGSBERG: Approved.

25 MS. FIELDS: Dr. Jennings?

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1 DR. JENNINGS: Yes.

2 MS. FIELDS: Mr. Noble?

3 MR. NOBLE: Approved.

4 MS. FIELDS: Mr. MacDurmon?

5 CHAIRMAN MACDURMON: Approved.

6 MS. FIELDS: Motion passed.

7 CHAIRMAN MACDURMON: Thank you.

8 MR. BRODERICK: And I'll turn it back over

9 to George.

10 CHAIRMAN MACDURMON: Are there any

11 nominations for the position of Vice Chair?

12 I would like to nominate

13 Dr. Jennings. Is there a second?

14 MR. ALCORN: Second.

15 CHAIRMAN MACDURMON: Any other

16 nominations?

17 Hearing none, Ms. Fields?

18 MS. FIELDS: Mr. Alcorn?

19 MR. ALCORN: Approved.

20 MS. FIELDS: Mr. Honigsberg?

21 MR. HONIGSBERG: Approved.

22 MS. FIELDS: Dr. Jennings?

23 DR. JENNINGS: Yes.

24 MS. FIELDS: Mr. Noble?

25 MR. NOBLE: Approved.

<p>1 MS. FIELDS: Mr. MacDurmon? 2 CHAIRMAN MACDURMON: Approved. 3 MS. FIELDS: Motion passed. 4 CHAIRMAN MACDURMON: Thank you. 5 The next item on the Agenda is the 6 introduction of staff members present. I'll turn 7 the meeting over to Mr. Broderick for that. 8 MR. BRODERICK: Well, I've noticed for the 9 staff, the front row, I didn't get the word, but it 10 apparently was designated for K's. We have Kelly, 11 Kole, and Karen on the front row, that apparently is 12 a new rule that I wasn't aware of. 13 Kelly Dixon is my boss' boss, she's 14 the head of the Land Protection within DEQ; Kole is 15 kind of the general go-to-it guy for the various 16 councils, he works a lot with Quiana and me on that; 17 Karen Jayne is our attorney. 18 And back in the back, he's in a very 19 humble position back there, we have Bruce, who is, 20 sometimes I say, the most important person in the 21 Radiation Section because he is our administrative 22 person, and all the licenses and the various 23 paperwork that we have, he is in charge of that 24 flow. I've had bad administrative people and it's 25 very tough without a good one; so we appreciate</p>	<p>Page 6</p> <p>1 We will -- next year, we're going to 2 schedule two meetings and we expect to have two 3 meetings. We will have a rulemaking briefing at the 4 March meeting, and then we'll vote on rules at the 5 September meeting. I'll give the dates later in the 6 Agenda, but those will be the months that we meet. 7 We have some, very frankly, trivial 8 rules. When I was in the Army, we -- I would call 9 -- we would have called ash-and-trash rules that 10 we're required to adopt to keep current with the NRC 11 regulations. I'm not going to go over them in 12 detail because most of them have no effect, but we 13 are required to adopt them. Most of them are things 14 like changing addresses, the mail stops of NRC 15 offices, there's a couple of spelling corrections. 16 There is one rule which may be 17 significant for some people, but I don't think any 18 in Oklahoma. There are some rules about -- that 19 apply to importers and exporters of large quantities 20 of uranium. 21 Then we have one rule that will be a 22 correction. We made a minor error in our last set 23 of rules, we implied that we had jurisdiction over a 24 transportation form that the NRC issues, and of 25 course we're not going to try to issue those forms,</p>
<p>1 having Bruce. 2 I am Mike Broderick, I'm the manager 3 of the Radiation Section, and we have Carol over 4 there running the AV stuff, Carol Bartlett, and we 5 appreciate her help. 6 MS. BARTLETT: Kole's running it. 7 MR. BRODERICK: I believe that's -- unless 8 I've missed somebody that's -- 9 DR. JENNINGS: Michelle Wynn. 10 MR. BRODERICK: Oh, yes. Okay. 11 CHAIRMAN MACDURMON: And the next item on 12 the Agenda is the introduction of members of the 13 public. 14 MR. BRODERICK: We have any? I don't 15 think we have any. 16 CHAIRMAN MACDURMON: I don't think we have 17 any; so, no introductions necessary. 18 Next on the Agenda is the "Briefing 19 on Anticipated 2023 Changes to Chapter 410". 20 Mr. Broderick? 21 MR. BRODERICK: Thank you, George. 22 First let me say, we have a tendency 23 to schedule two RMAC meetings a year, but cancel one 24 of them and only hold one. We're required by law to 25 have one meeting a year.</p>	<p>Page 7</p> <p>1 it wouldn't be valid, but the NRC still requires us 2 to correct the rules to do that. 3 But there is one rule change that is 4 important, and I want to brief the council members 5 on it, and we will probably be asked to act quickly 6 on it by the NRC. 7 In the past, for those of you who've 8 been around a while, I've talked about the GAO, the 9 Government Accountability Office, which is the 10 investigative arm of Congress, they do 11 investigations of things that may be of interest to 12 Congress. 13 Since 9/11, they have taken a great 14 interest in the security of radioactive materials, 15 and they have done several of what everybody now 16 calls stings, where they attempted to get various -- 17 in various ways to get control of radioactive 18 materials with the idea that they're demonstrating 19 weaknesses in the system that could be exploited by 20 terrorists and bad guys. 21 They have done some of those in the 22 past and they've had some significant -- my 23 counterpart in Texas lost his job a few years ago 24 because Texas issued a license that they shouldn't, 25 and the management there chose to fire him.</p>

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1 They did another sting a few months
 2 ago. This one, frankly, was more oriented towards
 3 the Customs people, but to make a long story short,
 4 they just literally forged a license of what's
 5 called a Category 3 quantity of radioactive
 6 materials. The United Nations radiation
 7 organization has categorized radioactive materials
 8 into Class 1 and 2, which are extremely hazardous
 9 and immediately dangerous to life and health, and
 10 then Category 3, which is dangerous, but lower than
 11 that, and there are some others that don't concern
 12 us here.

13 The GAO focused on Category 3 levels
 14 of material, those have not been made subject to the
 15 various security measures that we've put in place
 16 for 9/11. They have not been made subject to that,
 17 and their -- GAO's thinking is that bad guys could
 18 order several quantities of Category 3 materials
 19 from different suppliers, possibly under different
 20 names, and consolidate those to make a Category 2
 21 source that would be immediately dangerous to life
 22 and health and use that for a terrorist attack.

23 And they literally forged a license,
 24 actually forged several licenses, and they got three
 25 different shipments and they came from overseas so

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1 they were run through the Border -- Customs and
 2 Border Patrol, which was the main victim of their
 3 sting in this, and they actually got the shipments
 4 delivered to them. They refused the shipments so
 5 that they didn't ever actually take custody of the
 6 stuff and would have been in violation of the rules,
 7 but they actually had photos of these shipments that
 8 were there that they could have signed for and
 9 taken.

10 They have recommended several steps
 11 for the NRC. One of them is, with Category 1 and 2,
 12 whoever's shipping the stuff contacts a regulatory
 13 agency in some way to verify that this is a valid
 14 license, that's not required right now for Category
 15 3. They recommended doing that in the immediate --
 16 using it to get a quick fix, and they also
 17 recommended -- and there's various high-security
 18 measures that they can use on licenses. They're
 19 talking about going to purely electronic licenses or
 20 something that -- if it was to be adopted, the NRC
 21 and 35 or 36, however many it is now, Agreement
 22 States would have to change their way of making
 23 licenses, and that will be a serious project.

24 But the NRC has taken those findings
 25 under advisement. Congress pays attention to these

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1 things, so NRC pays attention to them, and they are
 2 working furiously -- Keisha Cornelius, for reasons
 3 I'll explain later in my report, is heavily involved
 4 in these negotiations, but they're working furiously
 5 to come up with recommendations right now. The
 6 states are very important with that because so many
 7 states have become Agreement States now, the NRC is
 8 sort of the tail on the dog of all the states that
 9 regulate radioactive materials.

10 The states pretty much have taken
 11 over these, so the NRC, we appreciate it, is very
 12 sensitive to what the states can do, but it's not --
 13 there's no public announcement yet. I can tell you
 14 I'll be astonished if there's not an NRC -- or, a
 15 required rule that basically says that shippers of
 16 Category 3 materials have to verify the license, I
 17 -- you can pretty much bank on that happening.

18 There may be other rules that they
 19 adopt, and the expectation is -- normally, we have
 20 three years to adopt rules once the NRC puts them in
 21 place; with this, it's expected that we'll --
 22 they'll want a shorter timeframe, they may want as
 23 short as a year. If that happens, we will probably
 24 bring to you in March an emergency rulemaking that
 25 would go into effect quickly, and the way state

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1 rules work, you can do emergency rulemakings and
 2 they go into effect quickly, but they can only be
 3 for a year, good for a year, and they don't want
 4 things on permanent emergency status and you cannot
 5 repeat -- you can't do a second emergency rule.

6 So we'll probably come to you with
 7 two rulemaking -- actually, three rulemakings. One
 8 of them will cover the ash-and-trash stuff that I
 9 talked about, one of them will be an emergency
 10 rulemaking doing whatever NRC decides to do as a
 11 result of the GAO sting, and then there'll be a
 12 permanent rule for those, that we'll probably come
 13 to you in March and give you your initial briefing.

14 We have occasionally done it for
 15 routine things, for adopting just routine things
 16 that NRC requires, but I don't like -- and I don't
 17 think you would like and so I try never to bring
 18 something that's significant or out of the ordinary
 19 to you for the first time and put it in front of you
 20 and say, 'Hey, vote on this'. So we'll give a
 21 briefing in March and we will do the permanent
 22 rulemaking, ask you to approve the permanent
 23 rulemaking in September, and so I -- that's what I
 24 expect to happen next year.

25 So there are several very routine

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1 rulemakings, but then there's one -- the one for the
 2 GAO sting that's important, and that's what we
 3 expect to be happening next year.
 4 And I believe that's all I have for
 5 the rulemaking.
 6 CHAIRMAN MACDURMON: Any discussion?
 7 MR. BRODERICK: Actually, I will mention
 8 one other thing. This Category 3 rulemaking, it
 9 will affect some significant sources in the state.
 10 One that's of interest particularly to George, there
 11 are brachy -- what's called brachytherapy,
 12 iridium-192 sources that are used for cancer
 13 treatment, it will affect those. It will probably
 14 affect some well logging sources. I'm sure there
 15 are others, but those are the main two groups of
 16 interest in the state.
 17 CHAIRMAN MACDURMON: Okay. Thank you,
 18 Mike.
 19 DR. JENNINGS: George, I do have a
 20 question. So if we do the emergency in March, then
 21 in September or October can we do a permanent of
 22 that or --
 23 MR. BRODERICK: As I understand the
 24 process -- and Karen can grab the reins here if I do
 25 this wrong, but we will ask you to approve both the

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1 permanent and emergency in September, we'll brief
 2 you on them in March.
 3 It is barely conceivable -- and I may
 4 not be the one who makes this decision for a reason
 5 I'll explain later -- it's barely conceivable, if
 6 the NRC puts us on a permanent schedule we would ask
 7 you to go ahead and just approve it in March.
 8 DR. JENNINGS: Okay.
 9 MR. BRODERICK: As I say, I prefer not to
 10 do that because I don't like to put you in that
 11 position, but we'll probably ask you to -- we will
 12 brief you on them in March and send them back to
 13 you, and hopefully you will approve them in
 14 September, then they'd go to the board at the next
 15 board meeting.
 16 There may be one in December, but
 17 more likely in March, I think of next year. And I
 18 would defer to Kelly or Karen on that, but you got
 19 -- after -- of course, as you know, after you guys
 20 recommend something, when you approve it you're
 21 actually recommending it to the board.
 22 CHAIRMAN MACDURMON: Would it be
 23 advantageous for us to look at it and approve it in
 24 March as far as getting it to the board?
 25 MR. BRODERICK: I will defer more to Karen

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1 and Kelly for that. I don't think that it makes a
 2 big difference, but it might, and I think -- but it
 3 might. We'll know more when we know what timeline
 4 the NRC puts on us.
 5 CHAIRMAN MACDURMON: Right, because the
 6 board normally meets in the -- is it, like, in the
 7 late summer or early fall?
 8 MS. DIXON: We meet four times a year.
 9 CHAIRMAN MACDURMON: Okay.
 10 MS. DIXON: So, yeah, we can do rulemaking
 11 in any of those board meetings.
 12 CHAIRMAN MACDURMON: Okay.
 13 MR. KENNEDY: I missed the initial
 14 question. I'm sorry, I was having a rule discussion
 15 about that.
 16 CHAIRMAN MACDURMON: I was asking about
 17 whether it would be advantageous for us to see it in
 18 time to approve it in March rather than waiting
 19 until the second meeting next year.
 20 MR. KENNEDY: I believe what Mike is
 21 saying, though -- by the way, I'm Kole Kennedy. I
 22 believe what Mike is saying, though, is that NRC may
 23 not be ready for us to --
 24 CHAIRMAN MACDURMON: I'm saying --
 25 MR. KENNEDY: -- have that rule, but if

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1 they do --
 2 CHAIRMAN MACDURMON: No, if the -- if it's
 3 ready, I'm not sure why delaying it --
 4 MR. KENNEDY: We could do that. If we do
 5 the emergency rules that we -- if there is a need
 6 for emergency rules, that's the first thing. If
 7 there's actually a need for the emergency and it is
 8 found, we could absolutely do it in March. It would
 9 still -- I'm trying to -- I'm a little fuzzy on the
 10 emergency rule timeline, it would still take a bit
 11 for it to go into effect.
 12 MS. JAYNE: The emergency rules will take
 13 effect when the governor signs them, which can
 14 happen within a couple months after the board would
 15 send them. However, emergency rules are only good
 16 for a year, and once the -- I think it's tied to
 17 when the legislature goes sine die, the emergency
 18 rules are no longer effective; so we have to do
 19 simultaneous permanent rulemaking so that we've got
 20 permanent rules on board for when the emergency
 21 rules expire.
 22 CHAIRMAN MACDURMON: I guess all I'm
 23 saying is that from my perspective, the council
 24 would be prepared to address that in March if it was
 25 -- if the NRC was done with it and the DEQ was ready

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1 for us to see it in March.

2 MR. KENNEDY: I see no reason why that

3 couldn't happen, then, if everything was in place.

4 MR. BRODERICK: We'd appreciate that. I

5 try to bend over backwards to respect and not put

6 you on the spot with asking you to vote on things

7 like that, but I appreciate that, and it looks like

8 the rest of the council is sympathetic to that idea.

9 We'll consider that, if it ends up to be

10 advantageous, we will go ahead and ask you to vote

11 on the permanent rule.

12 It is -- as I understand it, when we

13 were setting up the dates for this -- as I said

14 Keisha is actually privy to the negotiations at a

15 higher level about this, and I suggested having our

16 meeting in February instead of March as we normally

17 do, and Keisha said, 'They may not be ready yet in

18 February': so, therefore, we set it in late March.

19 But it just depends on what -- frankly, we don't

20 know what NRC is going to do, and we'll be

21 responding to what NRC does.

22 MR. HONIGSBERG: Is there a reason why we

23 couldn't move the September meeting up if it needs

24 to be done, if it's not ready in March, if it needs

25 to be done sooner?

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1 MR. BRODERICK: That, again, is possible,

2 I won't rule it out. I -- to be blunt, I won't be

3 here then, I believe, and it looks like they're

4 going to figure this out, and they'll know what to

5 do. But we considered that possibility.

6 CHAIRMAN MACDURMON: Okay. Thank you,

7 Mr. Broderick.

8 Any other discussion from the

9 council?

10 DR. JENNINGS: No, thank you.

11 CHAIRMAN MACDURMON: The next item on the

12 Agenda is "Section Activities and Events", and it's

13 back to you, Mr. Broderick.

14 MR. BRODERICK: We have quite a few --

15 there's a lot of changes going on in the Radiation

16 Section right now and in the -- some in the council.

17 Jeff Lux has been an active member, and you'll

18 notice he's not here today. He has not retired yet,

19 but he is retiring, he resigned from the council.

20 We'll be looking for a Professional Engineer to

21 replace -- Licensed Professional Engineer to replace

22 him. So if you know a Licensed Professional

23 Engineer who is interested in radiation activities,

24 please drop me a word.

25 Several things have happened within

Page 20

1 the section. First, I'm proud -- there's a group

2 called the Organization of Agreement States, and

3 you've heard me mention that in the past, it's the

4 organization of states that have taken over the NRC

5 program. And I was on the board a number of years

6 ago for the organization, and we've had -- Keisha

7 and Libby have been on the board for the last couple

8 of years, but Libby is going to be -- is now off the

9 board, I'll explain why in a minute.

10 But Keisha is still on the board, and

11 she's been elected Chair Elect of the OAS. They

12 have a system where you're Chair Elect for a year

13 and then you're the Chairman for a year then you're

14 the Past Chair for a year, to provide continuity.

15 She is now the Chair Elect, and next year she will

16 be the Chair of OAS, and we're very proud of that.

17 I'm delighted and I believe in that because we have

18 influence.

19 I, even when I was on the board once,

20 was a rabble-rouser, frankly, and got the NRC to

21 change something that they were doing which was not

22 good, and the OAS can have genuine influence.

23 As I said earlier, so many states

24 have become Agreement States now, it's almost the

25 state dog is wagging the NRC tail for radioactive

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1 materials, so --

2 DR. JENNINGS: Weren't we one of the

3 earliest?

4 MR. BRODERICK: Sorry?

5 DR. JENNINGS: Weren't we one of the

6 earliest states?

7 MR. BRODERICK: We were the first in a

8 long time. There were a bunch of states that became

9 Agreement States when it was first possible in the

10 60s and 70s, then there was kind of a hiatus in the

11 80s and 90s, and we were -- we and Ohio became

12 Agreement States at about the same time in the early

13 90s. So we weren't the first, but we were the -- we

14 helped break the drought, there hadn't been any for

15 a long time. Anyway, but I think it's important

16 because we have -- can have influence with the OAS,

17 and I'm really delighted that Keisha is doing that.

18 I mentioned Libby, and those of you

19 who have licenses from us, I suspect all or nearly

20 all of you know Libby McCaskill, she's been a senior

21 and valuable member of the section, and she is now a

22 senior and valuable member of another section. She

23 has moved to a position -- another management

24 position within DEQ; so she is not in the Radiation

25 group anymore, but she is -- I'm sure she will do a

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1 good job.

2 She is continuing to work with

3 radiation. One of the sites I've talked to over the

4 years about -- talked to you about is Fansteel or

5 FMRI. It's a cleanup site that, frankly, is

6 problematic, has had trouble, and she's been our

7 person for that and done a good job, and her reward

8 for doing a good job is she gets to keep that site,

9 and we joked to her that she will have it forever

10 and it's now surgically attached to her, but she

11 will still be a little involved with us.

12 And another person who is -- also,

13 most of you who have sources know is Kevin Sampson.

14 He was the senior non-management person in the

15 section, and I say was because he is no more, he is

16 now a private citizen.

17 CHAIRMAN MACDURMON: That's a good way to

18 put it.

19 MR. BRODERICK: Yeah, he's a private

20 citizen. I've talked to him -- he retired on

21 September 1st, I believe, and I've talked to him

22 once since then and he was literally in the Bahamas,

23 so -- and he's enjoying his retirement.

24 And there's one more person. All of

25 you, if you're here, you know me. I have been in

Page 23

1 this job since 1994, and that's long enough. And

2 this may be my last RMAC meeting, but I will be

3 retiring -- looks like my last working day will be

4 either February 21st or March 31st of next year, for

5 various reasons. I haven't decided which yet.

6 If I go with February 21st, I'll be

7 gone by the last RMAC meeting, if I go with the

8 March 31st, I will be here for that meeting about

9 two days before my retirement; so it would be my

10 swan song.

11 But yes, I am retiring, I'm in a good

12 financial position and I've -- it's time. I think

13 it will be good for the section. They benefit from

14 me, I have a lot of institutional memory and so

15 forth, but also I'm older, and when you get old you

16 get tired and lazy, and frankly most of my brilliant

17 ideas I adopted in the first 10 years I was a

18 manager, and I think the section will benefit from

19 having somebody new with some new ideas, if they can

20 keep 95 percent of the good.

21 There are some things that I think

22 are important that I've emphasized for the section,

23 I think particularly for emergency response and

24 technical excellence. Those are things I think are

25 important and I think that we've done a good job of

Page 24

1 dealing with the -- or, incident response is

2 probably a better word than emergency response, and

3 we do a good job of those.

4 There are other things that need

5 attention and would be good for attention, and

6 hopefully if we can get a new person in that will

7 have -- pay attention to those, keep 95 percent of

8 the good that I have in the other stuff, I think

9 that would benefit the section.

10 So I will be going. We have several

11 people who potentially will replace me who are

12 qualified. I'm not at all worried, frankly, we'll

13 have a good manager, whoever's picked. That won't

14 be my choice, but it will be -- we'll have a good

15 manager.

16 It will be important because the NRC,

17 they come and inspect our group, it's normally every

18 four years. They -- four and a half years ago --

19 or, actually, well, four years ago now, four years

20 ago they inspected our group and we did really well

21 for the second time in a row, so they let us go to

22 five years instead of four, but that means that in

23 September of next year, the NRC will be coming back

24 to do an exhaustive review of our section. They

25 send a group of five people here and they spend four

Page 25

1 days going through everything we do, and we want to

2 have a new manager in place for that.

3 So by leaving in February or March,

4 it suits my personal financial needs and it also

5 gives time to have a new manager in place, then --

6 you know, selected before the NRC comes. So the

7 timing is good.

8 Secondly, we have had some

9 excitement this last year -- last six months really

10 has been the six months of abandoned sources for us.

11 At least one of you is an industrial radiographer

12 and you're familiar with these, some of the others

13 won't be.

14 But with industrial radiography, they

15 use very powerful sources, they're some of the most

16 powerful sources that we regulate, and they are

17 usually more mobile, what's called cameras that can

18 be moved around; so they're -- they get a lot of

19 attention from us, both for radiation safety and for

20 security.

21 There's a category of -- without

22 getting too technical, basically there are some

23 radiography cameras for doing quality control on

24 very dense or heavy equipment that use cobalt-60,

25 large quantities of cobalt-60, and that's an isotope

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1 that's of special interest to the NRC as far as
 2 security and terrorism.
 3 Well, we had a radiography company
 4 which was a long established company, actually, that
 5 -- frankly, they went out of business rather --
 6 fairly quickly in the spring, and they had offices
 7 in Tulsa and in Moore, Oklahoma. They had some more
 8 normal radiographic equipment that was disposed of
 9 in an appropriate way, but there is one type of
 10 these cobalt-60 cameras that's a problem to use.
 11 The camera design is old, and that
 12 makes -- what it amounts to is, they're not
 13 considered safe to transport powerful sources
 14 anymore. Normally, you transport a powerful
 15 radiography source inside the camera; you can't do
 16 that with these, and that makes these a headache to
 17 use since most industrial radiography is performed
 18 at temporary job sites.
 19 This company had four of those
 20 cameras distributed between Tulsa and Moore, and
 21 these were Category 2 radiation sources. If you
 22 remember a minute ago, I was talking about Category
 23 1 and 2 and 3 and so on. Category 2, the definition
 24 says that it's a source that, in a period of minutes
 25 to hours, could cause either -- it could cause death

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1 or it could cause lifelong injuries in a period of
 2 minutes to hours, it's serious stuff.
 3 The NRC requires some very serious
 4 measures for the security of those, things involving
 5 checking out the background of the people who have
 6 access to them, they need to have an alarm with some
 7 form of surveillance, usually it's video
 8 surveillance, and the ability to assess when there's
 9 an alarm that goes off, they want somebody who's
 10 able to assess within minutes whether this is
 11 something where they should call the cops, that Al
 12 Qaeda is trying to get this, or is it just that
 13 Fred, the radiographer, forgot to turn on the alarm
 14 before he opened the door, that type of thing.
 15 But with the company out of business
 16 there was nobody to assess these, and their contract
 17 for their alarm, it actually -- well, it did
 18 eventually run out, but it was not -- no longer
 19 being paid and the alarm company was going to turn
 20 off all their alarm services, and that's basically
 21 an unacceptable situation with sources this
 22 powerful.
 23 We acted to put armed guards on the
 24 sites, two sites, for 24 hours, and we asked for
 25 help from the Environmental Protection Agency, they

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1 do what's called an emergency removal. The
 2 Superfund process that you hear about is a very
 3 involved process, it could take years, but with the
 4 emergency removal, they can go in, make a brief
 5 assessment and say, 'This is a real problem and
 6 needs immediate' -- and they're limited -- they
 7 can't spend unlimited money with it, but they can
 8 spend a significant amount of money, and they did an
 9 emergency removal and came in and got these sources
 10 out.
 11 They also -- they took over the armed
 12 security, provided that until they were able to do
 13 that, but those sources have all been removed and
 14 there's no longer any radioactive material at that
 15 -- those two sites, and we appreciate what EPA did,
 16 appreciate their help.
 17 We looked at was this going to be a
 18 problem with these cameras. Industrial radiography,
 19 as Mr. Alcorn is telling you, is going through kind
 20 of a hard patch right now --
 21 MR. ALCORN: Yes.
 22 MR. BRODERICK: -- and we were worried
 23 that there may be more of these sources out there,
 24 and so we did an assessment, we did some phone
 25 calling and polling. We had several -- I'm not

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1 going to say how many, we had several facilities
 2 that were licensed for these -- to have these --
 3 this particular type of camera, but it ends up
 4 there's only one facility who actually has one in
 5 the state right now, and they are actively using the
 6 camera.
 7 I was particularly interested if
 8 there were any of these that weren't being used
 9 because that meant they weren't economically viable
 10 and made them more liable to be abandoned, but this
 11 -- they assure us -- and actually, the facility's
 12 known to us and we knew that they were doing this,
 13 but they're actively using it and, you know, they
 14 want it and want to keep it.
 15 There are several others that have it
 16 on their license, but they don't use them in the
 17 state right now if they have them on their license
 18 either because they want to have the option of
 19 ordering them -- which I think is unlikely now,
 20 getting a new one -- or they have them in other
 21 states and they might want to bring them in from
 22 other states and use them here.
 23 But we decided that basically there
 24 is only one, it appears to be economically viable,
 25 and we looked at the options for rulemaking that

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1 might affect this that we could present to the
 2 council.
 3 The main one I was interested in
 4 ended up not to be viable. The State of Texas has a
 5 program where they charge a -- an additional fee for
 6 a radioactive material license. It's pretty small
 7 in comparison to the main fee, I believe, I think
 8 it's 2 percent now of the license fee, and that goes
 9 into a fund to deal with abandoned sources like
 10 this.
 11 And when you run the numbers here of
 12 how much money we take in total in fees and how much
 13 that would generate, assuming that we could get a
 14 2 percent surcharge, that doesn't generate a lot of
 15 money in terms of the cost of these. These -- they
 16 had five of those -- or, pardon me, four of these
 17 sources, this company that went bankrupt, and they
 18 were \$40,000 each to get rid of, approximately.
 19 MR. ALCORN: Can I add something to this,
 20 Mike?
 21 MR. BRODERICK: Pardon me?
 22 MR. ALCORN: Can I add something to this?
 23 MR. BRODERICK: Go for it.
 24 MR. ALCORN: So I offered to buy all of
 25 these -- I offered to buy everything from this

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1 business, and they turned me down. They said, 'No,
 2 we think we can get better money at the auction', so
 3 I said, 'Well, what about the cobalt-60 sources?',
 4 and they said, 'Well, we're just going to turn those
 5 over to the state, we don't want to deal with them'.
 6 That's when I did call you about this.
 7 MR. BRODERICK: And I appreciated that.
 8 MR. ALCORN: So although this company did
 9 go bankrupt, this company was owned -- and they
 10 LLC'd or, you know, they made it legal where it was
 11 legal to do this, they were owned by a huge
 12 investment firm. The investment firm had the money
 13 to do this, and not only that, when it went to
 14 auction I spent about a half-million dollars buying
 15 dark rooms, I bought their cameras out of Texas that
 16 are the same that I use, I bought the other
 17 cobalt-60 cameras, the same that I still use.
 18 So they -- somebody had the money to
 19 pay for this, so that's -- I think if there is
 20 anything to be changed, it needs -- something needs
 21 to be changed where if you're an investment group
 22 and you own one of these companies, that investment
 23 group -- maybe not the LLC, I don't know if that's
 24 even legal, or we'd have to look into that, but
 25 somebody should be responsible for that. Because

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1 there is no doubt that somebody who bought that
 2 company had the money to do that, and I -- you know,
 3 I just think that's wrong the way they did that,
 4 so...
 5 CHAIRMAN MACDURMON: Michael, are they not
 6 subject to a decommissioning funding plan?
 7 MR. BRODERICK: Industrial radiography --
 8 basically, the NRC has rules for decommissioning, as
 9 you know, and industrial radiography, unless you
 10 have an incredible amount of cameras, which none of
 11 our state -- our facilities has, you're not subject
 12 to financial assurance.
 13 Now, as it happens, that's of
 14 interest, and Kelly, she's on the -- I believe the
 15 Radioactive Waste Compact, she's the state
 16 representative, she receives material about this.
 17 The NRC is in the early stages of reviewing their
 18 financial assurance and what needs to change, and
 19 that -- unfortunately, that's going to -- it's early
 20 stages, that's going to take years before that bears
 21 fruit.
 22 MR. ALCORN: We have some Agreement States
 23 that we have licensing in that we have to approve
 24 financial solvency every year, so --
 25 MR. BRODERICK: Say that again?

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1 MR. ALCORN: We have to -- like, New
 2 Mexico, Louisiana, we have to -- at least have to
 3 sign something that we're financially solvent, that
 4 we can take care of our sources each year.
 5 MR. BRODERICK: I wasn't aware of that,
 6 that -- we'll look into that, and that may help --
 7 MR. ALCORN: Not that that really -- that
 8 doesn't -- you know, I could go bankrupt tomorrow,
 9 I'm not going to, but you know, and then I could
 10 walk away from them, as well, but --
 11 MR. BRODERICK: Right. That is a weakness
 12 in our current system which we adopted from the NRC.
 13 The NRC has one set of fee schedules for most
 14 companies, they have another set of fee schedules
 15 for what they call small entities, and what they
 16 call a small entity can still be a pretty big
 17 company. I can't quote the rules off my head, but I
 18 believe you can have 500 employees, if I remember
 19 right, and still be considered a small entity.
 20 And the fee for industrial
 21 radiography in particular is dramatically lower for
 22 a small entity than for a large company. I believe
 23 it's in the area of \$20,000 for a large company and
 24 a little over \$2,000 for a small entity, if --
 25 that's from memory, it may not be precise.

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1 But, anyway, that -- I'm sympathetic
 2 to small companies, and they're the -- one of the
 3 driving stones of capitalism and I know the
 4 legislature wants to be very sensitive to those, but
 5 -- and I'm not sure if that's a great system, but I
 6 don't know how to change it, frankly, I think it
 7 probably -- it would be of great political interest,
 8 I'll put it that way, if we changed it, potentially,
 9 so --

10 MS. DIXON: Mike, I have a couple things
 11 to add on the -- on financial assurance, anyway. If
 12 it's not required by the NRC currently, it's really
 13 a heavy lift for the state to propose a regulation
 14 that's more stringent than a federal regulation
 15 because the legislature and the governor both have
 16 to approve our rule changes; so that's one of our
 17 barriers.

18 And I think, Mr. Alcorn, you made a
 19 really good point about responsible party paying for
 20 what they're responsible for. I can tell you, and I
 21 don't know any detail about it, but the EPA
 22 emergency removal group does pursue enforcement
 23 against responsible parties and -- for cost recovery
 24 once they've taken an action, and I think our
 25 feeling was that it was enough of an emergency

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1 situation it needed to be dealt with, you know,
 2 immediately and --

3 MR. ALCORN: Right.

4 MS. DIXON: -- we were concerned about
 5 protracted discussions or negotiations with this
 6 company and I think they were not even in-state; so
 7 it made our job much more difficult. So, hopefully
 8 -- and EPA generally does not share their
 9 enforcement position with us. Hopefully, they're
 10 pursuing that cost recovery.

11 MR. ALCORN: Okay.

12 MR. BRODERICK: There have been, in
 13 addition to EPA, other groups that we've shared
 14 information with, and so that company's not off the
 15 hook --

16 MR. ALCORN: Yeah. Good.

17 MR. BRODERICK: -- but, frankly, it's not
 18 something we will be able to do. As Kelly said,
 19 it's very hard for us as a state agency to pursue
 20 action against an out-of-state entity.

21 Anyway, that -- let's see, and I
 22 already mentioned that the federal -- the NRC is
 23 considering changes to their financial assurance,
 24 and I personally favor the idea, but I don't think
 25 that's going to come to our rescue quickly, that's a

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1 very long process. The NRC is very deliberative,
 2 and so it's a very long process.

3 But that concludes my report, it's --
 4 as I said, it's been an exciting time for lost
 5 sources.

6 CHAIRMAN MACDURMON: Thank you,
 7 Mr. Broderick.

8 The next item on the Agenda is a
 9 report by the Chair, and I normally never have
 10 anything to report, but I would like to take the
 11 opportunity to recognize Mr. Broderick and his
 12 efforts as -- in this leadership position in the
 13 Radiation Section for the state. And as one of the
 14 people who are heavily involved with the DEQ and its
 15 regulatory policies, Mr. Broderick has been just an
 16 outstanding asset for us, and I just want to say
 17 thank you.

18 MR. BRODERICK: Thank you, George. I
 19 appreciate it. We did -- at the last Radiation
 20 meeting before COVID, we -- a bunch of our -- the
 21 program directors from different sections got
 22 together and we concluded that I was, at that time,
 23 the second-longest-serving state radiation program
 24 director. The longest-serving one at that time
 25 retired in the spring; so I'm pretty sure I'm the

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1 longest-serving position in this state -- of state
 2 programming in the country. Yeah, I've been here
 3 for 28 years, it'll be 29 years when I retire, and
 4 it's a part of my identity, frankly, to have this
 5 job, so --

6 CHAIRMAN MACDURMON: Well --

7 MR. BRODERICK: -- I appreciate your
 8 comments.

9 CHAIRMAN MACDURMON: You've done an
 10 exceptional job, and it's been a privilege to work
 11 with you, so --

12 MR. BRODERICK: Appreciate it.

13 DR. JENNINGS: George, I'd like to second
 14 that as the longest-serving board member. I can't
 15 remember if I came on in '95.

16 MR. BRODERICK: That sounds right.

17 DR. JENNINGS: It was right after he --
 18 and I watched him grow in his leadership and his
 19 communication with the public, and he's just really
 20 been an asset.

21 And y'all may not know that he and I
 22 were students at the Health Sciences Center
 23 together, and anyway, so I've known him for a very
 24 long time, so --

25 MR. BRODERICK: It's embarrassing how

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1 long, Karen.

2 DR. JENNINGS: So anyway, thank you, Mike,

3 for your service and --

4 MR. BRODERICK: Appreciate it.

5 DR. JENNINGS: -- hopefully we'll get

6 another chance in March, but we'll see. Okay.

7 CHAIRMAN MACDURMON: Anyway, well, thank

8 you, everyone.

9 The next item on the Agenda is new

10 business. Mike, do you know of any new business

11 that the council needs --

12 MR. BRODERICK: I'm unaware of anything.

13 Kelly --

14 We weren't sure she would be here,

15 she sometimes has something to say.

16 -- you've spoken a little, do you

17 have anything?

18 MS. DIXON: One thing I can share with you

19 is our agency -- and I think we've talked about this

20 in the past, perhaps, but our agency is sort of all

21 in on continuous improvement. We're working really

22 hard to make sure that we're purposefully improving

23 our efficiency and our processes so that it's more

24 seamless, your permits and licenses get out quicker,

25 they're accurate, and that we measure that progress

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1 and so that we can share our successes with you

2 guys. That's a big initiative agency-wide, and

3 there's a lot of time and energy right now being

4 spent on that.

5 And I guess I should -- I would be

6 amiss if I didn't -- remind if I didn't echo

7 everything you guys said about Mike and the service

8 that he's provided to the state in his knowledge and

9 skills in the radiation world, they've been very

10 invaluable to our program.

11 MR. BRODERICK: Thanks, Kelly.

12 CHAIRMAN MACDURMON: Okay. Next meeting,

13 Mr. Broderick?

14 MR. BRODERICK: We have two possible dates

15 for the next meeting, we've got two options for each

16 of them. I would suggest March 23rd for the next

17 meeting, if that is intolerable for somebody we can

18 do it March 30th. Is March 23rd okay as far as

19 everyone knows? Then I'd suggest March 23rd of next

20 year, that will be in Tulsa.

21 CHAIRMAN MACDURMON: Is that a Thursday?

22 MR. BRODERICK: I believe so, I picked

23 Thursday.

24 Bruce, you remember? It's a

25 Thursday; isn't it?

Page 40

1 MR. ADAMS: Yes, they're all Thursdays.

2 MR. BRODERICK: Yeah. We got you down.

3 We know you prefer Thursdays, so March 23rd. And

4 for both this one and the next one, we do expect to

5 have meetings; so please be sure and plan to be

6 there.

7 The second one, I would suggest

8 September 21st of 2023, and it's scary to say that

9 because I will not be there, definitely, for that

10 one. But anyway, September 21st, if that's

11 unacceptable we can do it September 28th. It'll be

12 here in Oklahoma City, in this room, most likely.

13 Is the 21st okay?

14 CHAIRMAN MACDURMON: Yes.

15 DR. JENNINGS: September 21?

16 CHAIRMAN MACDURMON: September 21st.

17 MR. BRODERICK: September 21st of 2023.

18 So the next two dates, if that's acceptable to the

19 council, will be March 23rd and September 21st of

20 next year.

21 CHAIRMAN MACDURMON: Okay.

22 MS. FIELDS: Could we --

23 CHAIRMAN MACDURMON: Does anybody have any

24 announcements?

25 MS. FIELDS: -- get a motion and a second

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1 on --

2 CHAIRMAN MACDURMON: Oh, on -- do you want

3 to approve those? Okay.

4 Can we get a motion to approve those

5 dates?

6 MR. NOBLE: I so move.

7 CHAIRMAN MACDURMON: Is there a second?

8 MR. ALCORN: Second.

9 CHAIRMAN MACDURMON: Ms. Fields?

10 MS. FIELDS: Mr. Alcorn?

11 MR. ALCORN: Approved.

12 MS. FIELDS: Mr. Honigsberg?

13 MR. HONIGSBERG: Approved.

14 MS. FIELDS: Dr. Jennings?

15 DR. JENNINGS: Yes.

16 MS. FIELDS: Mr. Noble?

17 MR. NOBLE: Approved.

18 MS. FIELDS: Mr. MacDurmon?

19 CHAIRMAN MACDURMON: Approved.

20 MS. FIELDS: Motion passed.

21 CHAIRMAN MACDURMON: Thank you.

22 Are there any announcements?

23 MR. KENNEDY: Mr. MacDurmon -- Chairman, I

24 would like to make a quick announcement towards the

25 agenda that you might have received from our email.

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1 We have -- along Kelly's talk about continuous
 2 improvement at the agency, we've gone electronic for
 3 all of our meetings.
 4 So in the future, you will receive
 5 your Agenda, and on that Agenda is a link, and that
 6 is going to replace the full-blown, like, 15
 7 attachments that you might get, and all of that
 8 stuff is then posted on our website. So that link
 9 just drops you right into the website and the
 10 documents will be there, just like normal, for your
 11 review for the upcoming meeting.
 12 But another thing that we've
 13 transitioned to is -- at the top of the Agenda is a
 14 QR code so we don't have to pull up and print an
 15 entire ream of paper every time for the public. As
 16 they walk in, they can scan the QR code or go to
 17 that link itself and they have then full access to
 18 the packet, just like normal. So it's saved the
 19 agency quite a bit of money and effort to assemble
 20 those packets.
 21 And then, also, we've launched a
 22 GovDelivery for our interested parties list. The
 23 GovDelivery is basically housing -- we don't have to
 24 house the Excel spreadsheet of everybody that says
 25 they want an email about an upcoming council

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1 meeting.
 2 We have created that agency-wide, but
 3 specifically for our interested parties on our
 4 councils, and we just launched that here in the last
 5 couple of weeks and we have over 200 people that are
 6 interested parties for our radiation council, so
 7 that's a pretty cool deal, and we just launched that
 8 a couple weeks ago.
 9 So we're very excited about the
 10 future of kind of electronic means, but we will
 11 still have the packets for you unless you just say,
 12 'No, I don't want a packet, I'll pull it up on my
 13 iPad', going forward.
 14 Thank you for your time.
 15 CHAIRMAN MACDURMON: Thank you.
 16 Any other announcements?
 17 Hearing none, is there a motion to
 18 adjourn?
 19 MR. HONIGSBERG: Motion to adjourn.
 20 DR. JENNINGS: Second.
 21 CHAIRMAN MACDURMON: Ms. Fields?
 22 MS. FIELDS: Mr. Alcorn?
 23 MR. ALCORN: Approved.
 24 MS. FIELDS: Mr. Honigsberg?
 25 MR. HONIGSBERG: Approved.

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1 MS. FIELDS: Dr. Jennings?
 2 DR. JENNINGS: Yes.
 3 MS. FIELDS: Mr. Noble?
 4 MR. NOBLE: Approved.
 5 MS. FIELDS: Mr. MacDurmon?
 6 CHAIRMAN MACDURMON: Approved.
 7 MS. FIELDS: Motion passed.
 8 CHAIRMAN MACDURMON: Thank you.
 9 Meeting is adjourned.
 10 (MEETING CONCLUDED AT 10:55 AM)
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1 CERTIFICATE

2

3 I, Jenny Longley, Certified Shorthand

4 Reporter within and for the State of Oklahoma, do

5 hereby certify that the above and foregoing meeting

6 was by me taken in shorthand and thereafter

7 transcribed; and that I am not an attorney for nor

8 relative of any of said parties or otherwise

9 interested in the event of said action.

10 IN WITNESS WHEREOF, I have hereunto

11 set my hand and official seal this 26th day of

12 October, 2022.

13

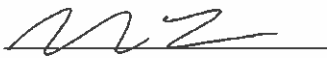
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 Jenny Longley, CSR
 CSR # 1903

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RADIATION MANAGEMENT ADVISORY COUNCIL

Attendance Record

October 20, 2022
Oklahoma, Oklahoma

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