1	WYOMING WATER AND WASTE ADVISORY BOARD
3	IN RE: WATER QUALITY DIVISION
4 5	
6 7	TRANSCRIPT OF MEETING PROCEEDINGS
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11	Pursuant to notice duly given to all parties in
12	interest, this matter came on for meeting on the 11th day
13	of September, 2015, at the hour of 9:31 a.m., at Casper
14	Community College, University Union Building, Room UU315,
15	125 College Drive, Casper, Wyoming before the Wyoming
16	Water and Waste Advisory Board, Ms. Marjorie Bedessem,
17	Chairwoman, presiding, with Mr. David Applegate in
18	attendance, and Ms. Lorie Cahn attending telephonically.
19	Mr. Mike Jennings, Monitoring Reimbursement
20	Program; Mr. William Tillman, Regulatory Engineer; and
21	Ms. Gina Thompson, Water Quality Division, were also in
22	attendance.
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1	PROCEEDINGS			
2	(Meeting proceedings commenced			
3	9:31 a.m., September 11, 2015.)			
4	CHAIRPERSON BEDESSEM: I'd like to call			
5	this meeting of the Water and Waste Advisory Board to			
6	order. We'll introduce our advisory board members.			
7	BOARD MEMBER APPLEGATE: Dave Applegate,			
8	representing industry.			
9	CHAIRPERSON BEDESSEM: Marge Bedessem, I			
10	represent the public. And we have Lorie Cahn, representing			
11	the public.			
12	MS. THOMPSON: Lorie, can you hear us?			
13	BOARD MEMBER CAHN: I can, yes.			
14	CHAIRPERSON BEDESSEM: Just holler if we			
15	need to speak louder.			
16	(Off-the-record discussion.)			
17	CHAIRPERSON BEDESSEM: So first up, we have			
18	the Water Quality Division. Administrator Frederick was			
19	not able to attend today, so presenting is Mr. Tillman.			
20	MR. TILLMAN: Yes, Madam Chair.			
21	We'd like to present again Chapter 24, which is			
22	the chapter on Class VI injection wells facilities for the			
23	underground injection control program. This was previously			
24	presented back in May to the advisory board, and we'd like			
25	to present the summary of changes that were made since that			

- 1 board meeting.
- 2 First off --
- BOARD MEMBER CAHN: I can't hear Bill. And
- 4 I didn't understand really well.
- 5 MS. THOMPSON: Okay.
- 6 CHAIRPERSON BEDESSEM: Yeah, if you can
- 7 just kind of get cozy here in an attempt to get most of our
- 8 language in close proximity to the speakers and microphone
- 9 as possible.
- 10 BOARD MEMBER CAHN: I can't hear Marge. I
- 11 guess it's breaking up.
- 12 CHAIRPERSON BEDESSEM: Well, you sound
- 13 wonderful, Lorie.
- BOARD MEMBER CAHN: Oh, now you sound
- 15 really good.
- 16 MR. TILLMAN: Lorie, is this better? Can
- 17 you hear now?
- 18 BOARD MEMBER CAHN: Yes, now I can hear
- 19 Bill and Marge.
- 20 CHAIRPERSON BEDESSEM: Okay. We will all
- 21 project.
- Okay, Bill, the floor is yours.
- MR. TILLMAN: Okay. First off,
- 24 Administrator Frederick would like for me to advise the
- 25 board that in the chapter in Section 3(c) there was a

- 1 section where the federal -- federal language has language
- 2 in there for converting Class II injection wells to Class
- 3 VI. That's from the federal CFR. And the legislature, in
- 4 conjunction with the Joint Minerals Committee, is working
- 5 on legislative language to also address the conversion of
- 6 Class VI -- or, excuse me, Class VI to Class II wells.
- 7 That will be in the next legislative session. We don't
- 8 know what that language will look like, but more than
- 9 likely whatever that statutory language that comes out of
- 10 that legislative action will likely replace what is
- 11 currently in Section 3(c) now. And just wanted to make the
- 12 board aware of that. It shouldn't -- this was basically
- 13 intended just as a heads-up to let you know, but hopefully
- 14 didn't preclude any action to forward this to the EQC.
- 15 Moving along. Most of the changes that were made
- 16 in this chapter were in regard to seeking primacy from the
- 17 EPA. The EPA provided what they call a crosswalk, where
- 18 they take our chapter and review it, make comments,
- 19 suggestions for changes to more align with the federal
- 20 language. That was done after the last board meeting, and
- 21 at that time -- or previously we hadn't had the financial
- 22 assurance part added to the chapter, so now they had the
- 23 full chapter to review. And the majority of the changes
- 24 that we're going to present today are basically based from
- 25 that crosswalk.

- 1 In addition to that, there were grammar changes
- 2 that Ms. Cahn suggested changing from which to that. There
- 3 was some capitalization errors that were changed. Also, we
- 4 made some changes from the federal language where they
- 5 referred to the director where it should be administrator
- 6 in our case, and we made those changes as well.
- 7 And also we made some changes from the federal
- 8 cross-references to cross-references within the chapter,
- 9 being that our chapter basically aligns with the federal
- 10 language, so it is a little more clearer as to how to
- 11 follow along.
- 12 Proceeding forward. In Section 2, we made some
- 13 changes to definitions based on the crosswalk. We made
- 14 changes to the definition of Class VI well, the confining
- 15 zone definition, and also the injection zone definition
- 16 were changed per the crosswalk from the EPA.
- 17 We also made changes to -- in the definition of
- 18 hazardous waste where we corrected the cross-reference to
- 19 40 CFR 261.3. We also added the definition of long-term
- 20 stewardship, which is from the carbon sequestration working
- 21 group. Since this term is used in the chapter, we felt we
- 22 needed to add that definition.
- 23 We also add the definition of plume stabilization
- 24 for consistency with the statute, Wyoming Statute
- 35-11-313(f)(vi)(F). We also changed the injection -- or

- 1 excuse me, the definition of post-injection site care for
- 2 clarity with Section 17.
- Finally, we changed the -- or we clarified when
- 4 we referred to the U.S. EPA administrator is the U.S. EPA
- 5 regional administrator, being there is a regional
- 6 administrator there in Washington, D.C. and within the
- 7 chapter most times we're referring to the regional
- 8 administrator in Denver.
- 9 Moving forward in Section 3, we made changes to
- section (b)(i) and (b)(i)(A). All those changes were made
- 11 on the EPA crosswalk.
- 12 In Section 3(c)(i), we made change per Klaus
- 13 Hanson's suggestion. The language that he added were "in
- 14 his best estimate, " reading the entire section after
- 15 consultation with the Oil and Gas Conservation Commission
- 16 the supervisor or the administrator may, in his best
- 17 estimate, require change -- require Class VI permit in
- 18 consideration of the following. That was per Klaus
- 19 Hanson's suggestion.
- In Section 4, we added part (b)(x) -- excuse me,
- 21 added (b)(x)(A) through (F), per the crosswalk. That would
- 22 be lines 409 through 428. In Section (b)(xi)(G) through
- 23 (H), were also added per the crosswalk.
- Paragraph (c)(i)(R) were -- those were lines 606
- through 608.

- BOARD MEMBER APPLEGATE: Can I just ask a
- 2 question?
- 3 MR. TILLMAN: Yes.
- 4 BOARD MEMBER APPLEGATE: A clarification,
- 5 since I wasn't in the earlier meeting.
- 6 So under the conversion of Class II wells to
- 7 Class VI wells --
- 8 MR. TILLMAN: Uh-huh.
- 9 BOARD MEMBER APPLEGATE: -- just so I
- 10 understand the context here, basically the Oil & Gas
- 11 Commission has the ability -- it says they may -- you just
- 12 give me the context regarding the use of the word may
- 13 require a Class VI permit. And after that you have
- 14 regarding a Class -- yeah, just help me understand that.
- 15 Does the Oil & Gas Commission have the ability to not
- 16 require a change in that permit status? Is that what that
- 17 says.
- 18 MR. TILLMAN: Yes. It's may, basically.
- 19 It's not required. They may require that change. And
- 20 basically in consideration of these -- the criteria
- 21 listed after that. So it's not an absolute. It's a
- 22 discretionary -- I guess a discretionary decision before
- 23 the administrator.
- 24 BOARD MEMBER APPLEGATE: Okay. Thank you.
- 25 MR. TILLMAN: Moving on. It would be, I

- believe, Section 4(c)(i)(AA) and (c)(i)(AA)(I) were also
- 2 added per the crosswalk.
- 3 CHAIRPERSON BEDESSEM: What line are we on?
- 4 MR. TILLMAN: Be like 655 through 660.
- 5 BOARD MEMBER CAHN: Are you on the
- 6 redline/strikeout version line numbers?
- 7 MR. TILLMAN: Yes, I'm in
- 8 redline/strikeout.
- 9 CHAIRPERSON BEDESSEM: Uh-huh.
- 10 BOARD MEMBER CAHN: Thank you.
- MR. TILLMAN: Moving on to Section 5.
- 12 Section 5 (b)(vi) was added per the crosswalk. Section
- 13 (b)(vi)(A).
- 14 CHAIRPERSON BEDESSEM: Can you give us line
- 15 numbers every time as well? It's appreciated.
- MR. TILLMAN: I'll find that.
- 17 CHAIRPERSON BEDESSEM: It's a big chapter.
- 18 MR. TILLMAN: Oh, I don't know where I'm
- 19 at. Give me a moment, please.
- MS. THOMPSON: Is it 722?
- 21 MR. TILLMAN: Yes. In line 722, Section
- 22 (b)(vi)(A), we added "state, tribal, and territory
- 23 boundaries, " per the EPA crosswalk.
- On line 803 we also added, "and/or mass and total
- 25 anticipated volume and/or mass," and that was also per the

- 1 EPA crosswalk.
- On lines 825 and 826, we added the
- 3 cross-reference in Section 11, per the EPA crosswalk as
- 4 well.
- 5 And, again, the majority of these changes, I'd
- 6 say 90-plus percent of the changes, were based on comments
- 7 from the EPA. Going forward on lines 828 through 832,
- 8 those were added and changed per the EPA crosswalk. Where
- 9 am I? There we go.
- 10 On lines 834 we removed the results of formation
- 11 testing are required in this paragraph of this section,
- 12 formally (xix). Those were removed per the crosswalk, and
- 13 they were moved up into a different section.
- MS. THOMPSON: So we moved everything up.
- 15 We took that passage out and moved everything up per the
- 16 recommendation.
- 17 CHAIRPERSON BEDESSEM: Just before we get
- 18 too far past that. 826 I think you need "of" instead of
- 19 "at" on line 826.
- 20 MS. THOMPSON: So "at Section 11," where it
- 21 reads that, you'd like to see it read "of Section 11"?
- 22 CHAIRPERSON BEDESSEM: Yeah. I think all
- 23 the rest of yours are "of."
- MS. THOMPSON: Okay. We'll keep consistent
- 25 with what you --

- 1 BOARD MEMBER CAHN: Which line numbers?
- CHAIRPERSON BEDESSEM: That was 826.
- 3 MR. TILLMAN: Okay. On line 865 -- lines
- 4 865 through 869 were added per the EPA crosswalk. And line
- 5 874 through 875 were also added per the EPA crosswalk, and
- 6 was -- words added, "At the administrator's discretion, a
- 7 demonstration of the alternative post-injection site care
- 8 time frame required by Section 17 of this chapter," was
- 9 added to that paragraph.
- 10 On line 900 -- 900 through 902 were added per the
- 11 EPA crosswalk. The entire Section (c), which would be 906
- 12 through 908 were added per the EPA crosswalk.
- 13 On, let's see, I believe 913 through 936 were
- 14 added per the EPA crosswalk, and we moved the passage that
- 15 was formerly in Section 5(b), per Lorie Cahn's comment they
- 16 were added to (d)(iii), which would be lines 923 and 924.
- 17 Ms. Cahn just thought they were in the wrong place
- 18 previously, and we moved those to that section.
- 19 CHAIRPERSON BEDESSEM: Uh-huh. And you'll
- 20 have the strikeout of the formerly --
- MR. TILLMAN: Yes.
- 22 And on lines 994 through 996, those were changed
- 23 also per the EPA crosswalk. In Section 6, lines 1 --
- 24 excuse me, 1011 through 1012, we corrected the
- 25 cross-reference to the Wyoming Hazardous Waste Rules.

- 1 Lines 1017 through 1021 were added per the EPA crosswalk.
- 2 BOARD MEMBER CAHN: Can we go back line
- 3 1007 through 1009. That was an if wording, and I'm not
- 4 sure the --
- 5 THE REPORTER: She's cutting up. I
- 6 can't make it out.
- 7 CHAIRPERSON BEDESSEM: Yeah. Lorie, can
- 8 you repeat that? You were cutting out. We only got part
- 9 of that sentence.
- 10 BOARD MEMBER CAHN: Sorry. I wanted to go
- 11 back to my 1007 through 1009, and I am not sure that adding
- 12 the word "or" solves the wording issue. So what I want to
- 13 ask a question -- it's the phrase that starts, "or the
- 14 request for coverage" --
- THE REPORTER: Ms. Cahn. Ms. Cahn.
- 16 CHAIRPERSON BEDESSEM: Can you repeat your
- 17 last sentence, Lorie?
- 18 BOARD MEMBER CAHN: I'd like to ask -- the
- 19 last part of the phrase "or the request for coverage under
- 20 the individual permit," what precedes that if there was
- 21 nothing else in the sentence? I'm trying to understand
- 22 what's trying to be said here, then we can work on the
- 23 English to understand what's trying to be said.
- So it would be, "No person shall," from line
- 25 1,000, and then some -- and then "request for coverage

- 1 under the individual permit." What would go before that?
- 2 MR. TILLMAN: I believe what's intended in
- 3 that section is basically no one can, let's see, conduct
- 4 any authorization -- no one can inject anything in a manner
- 5 that results in a violation of a permit condition or a
- 6 representation made in the application, or if they request
- 7 under an individual permit, conditions in the individual
- 8 permit cannot result in a violation.
- 9 BOARD MEMBER CAHN: Okay. My question, if
- 10 we took out -- I just want to know if there was only one
- 11 thing instead of three things. Would it say no person
- 12 shall conduct any authorized injection activity in a manner
- 13 that results in a violation of the request for coverage
- 14 under the individual permit?
- MR. TILLMAN: No. There are -- I believe
- 16 there are three individual or three --
- 17 BOARD MEMBER CAHN: I know there's -- I'm
- 18 trying to just say -- I'm trying to make sure the wording
- 19 is correct. That's three different things, and I want to
- 20 make sure there's parallel construction. So I'm just
- 21 asking the question, if you only had one -- we're going to
- 22 have three in the end, but I want to understand, if you
- 23 only had one, what would be the full sentence if there was
- 24 only one?
- 25 CHAIRPERSON BEDESSEM: She's trying to

- 1 figure out how --
- 2 BOARD MEMBER CAHN: Would it be no
- 3 person --
- 4 CHAIRPERSON BEDESSEM: Because it's not
- 5 understandable.
- BOARD MEMBER CAHN: Excuse me?
- 7 CHAIRPERSON BEDESSEM: Thank you, Lorie. I
- 8 think your point is we're trying to look at this paragraph
- 9 so that it's understandable. The way it's constructed
- 10 right now, it's difficult to follow.
- MR. TILLMAN: Okay.
- 12 CHAIRPERSON BEDESSEM: And so she's just
- 13 asking that we simplify it down to one so we can figure how
- 14 things should be separated by commas, or whatever, so that
- 15 we can get the full thought here.
- MR. TILLMAN: Absolutely.
- 17 Proceed, Ms. Cahn.
- 18 BOARD MEMBER CAHN: So my question is if we
- 19 started the sentence and this is not a proposed change --
- 20 this is to understand there was only one thing and we had a
- 21 sentence, would it read no person shall conduct any un --
- 22 any authorized injection in a manner that results in a
- 23 violation of the request for coverage of individual permit.
- 24 Is that what it would read?
- 25 MR. TILLMAN: Yes. I believe so.

- 1 BOARD MEMBER CAHN: Okay. So we then take
- 2 the sentence and we say everything that follows all three
- 3 things, all after the word of. So the first one violates
- 4 any permit condition, that one makes sense; violation of
- 5 representations made in the application, that makes sense,
- 6 in fact; and the third one would be violation of the
- 7 request for coverage under individual permits; is that
- 8 correct?
- 9 MR. TILLMAN: Yes.
- 10 BOARD MEMBER CAHN: Okay. If that's
- 11 correct, then we need violations of permit conditions,
- instead of "or," we need a comma.
- MR. TILLMAN: Okay.
- 14 BOARD MEMBER CAHN: And then the sentence
- 15 make sense to me. Now we have parallel construction. Does
- 16 everybody agree?
- MR. TILLMAN: Yes, that sounds fine.
- 18 BOARD MEMBER CAHN: Okay. Thank you.
- 19 MR. TILLMAN: Okay. Let me get back to
- 20 where -- okay. In Section 8, line 1056, we added the part,
- 21 "and is acceptable to the administrator."
- 22 In line 1043 -- excuse me, line 1040 through 1043
- 23 that passage has changed per the crosswalk.
- 24 CHAIRPERSON BEDESSEM: 1040?
- MS. THOMPSON: I'm sorry. 11.

- 1 CHAIRPERSON BEDESSEM: All right. Thank
- 2 you.
- 3 MR. TILLMAN: I'm sorry.
- 4 And lines 1163 through 1170, those were added per
- 5 the crosswalk.
- 6 Also lines 1177 through 1178 were also added per
- 7 the crosswalk.
- 8 Section.
- 9 CHAIRPERSON BEDESSEM: So there's another
- 10 "at Section 4." Is that how it's handled throughout the
- 11 whole chapter? It's just odd. I saw it in other spots,
- 12 where it said --
- MR. TILLMAN: Oh, the line.
- 14 CHAIRPERSON BEDESSEM: -- "in Section 4" or
- 15 "of." "In" or "of." Just look through it and figure out
- 16 so they're all the same.
- 17 MS. THOMPSON: Yeah, we'll have to check
- 18 for consistency and make it all one.
- 19 CHAIRPERSON BEDESSEM: Yeah, all the same.
- 20 MR. TILLMAN: In lines 1235 and 1236, that
- 21 passage was changed per the EPA crosswalk.
- 22 Lines 1240 through 1243 were also added per the
- 23 EPA crosswalk.
- Lines 1258 through 1262, also added per the EPA
- 25 crosswalk.

- In lines 1264 through -- excuse me, in 1269,
- 2 through 1270, those were changed per the EPA crosswalk.
- 3 And also line 1279, that was also changed per the
- 4 EPA crosswalk.
- 5 Moving on to Section 10. Lines 1289 through 1292
- 6 were changed per the EPA crosswalk.
- 7 BOARD MEMBER APPLEGATE: Question here.
- 8 The whole Section 10 is blue. Does that mean whole Section
- 9 10 is new?
- 10 MS. THOMPSON: So it's new to the -- the
- 11 section is new to the chapter, compared to the chapter that
- 12 is currently on file with the Secretary of State, so it's
- 13 highlighted blue. But within that chapter, they -- the EPA
- 14 requested that we make additional changes to how we had
- 15 phrased certain passages. So --
- 16 CHAIRPERSON BEDESSEM: So how do we know
- 17 what was changed from the EPA crosswalk, if the whole
- 18 section is blue, because it was added prior?
- MS. THOMPSON: I can look and see
- 20 specifically what was changed in that passage.
- 21 BOARD MEMBER APPLEGATE: Well, my question,
- 22 I guess in general was -- and maybe you answered this, but
- 23 I'm not sure I heard it clearly. Was there depth waiver
- 24 requirements previously?
- 25 MR. TILLMAN: Yes. Well, there was depth

- 1 waiver requirements from the federal language previously in
- 2 the chapter. And like she referred to, the EPA crosswalk,
- 3 they didn't like particular words or sentences within what
- 4 we had, so we made changes to that. But the entire
- 5 section, I guess, is new to the chapter. I understand
- 6 what --
- 7 CHAIRPERSON BEDESSEM: So where was the
- 8 section before?
- 9 MR. TILLMAN: It was in Section 10. It was
- 10 in Section 10, these depth waiver requirements. It was
- 11 there. But like I said, we -- there were changes requested
- 12 from the EPA within what we already added. But to what
- 13 you're speaking --
- BOARD MEMBER APPLEGATE: It currently is
- 15 colored. It just makes it appear as if the whole chapter
- 16 is --
- 17 MS. THOMPSON: That whole section, it is
- 18 not new. You've seen this section before as it's new. The
- 19 way that passage is to read -- it used to read a
- 20 demonstration that the injection zone is or are laterally
- 21 continuous is not a USDW, is not hydraulically connected to
- 22 USDW, and does not outcrop within the area of review, has
- 23 the appropriate geochemistry and safe -- can safely contain
- 24 the injected fluids. And it didn't match the CFR
- 25 perfectly, and so they flagged it in our -- in our

- 1 crosswalk. So we changed it to match the CFR wording.
- 2 CHAIRPERSON BEDESSEM: Okay.
- MS. THOMPSON: So the concept is not
- 4 different, the phrasing is.
- 5 CHAIRPERSON BEDESSEM: Okay. It's -- I
- 6 couldn't --
- 7 BOARD MEMBER APPLEGATE: Let me come back
- 8 to my question one more time.
- 9 MS. THOMPSON: Sure.
- 10 BOARD MEMBER APPLEGATE: So you have -- you
- 11 have four pages of what appears to be a new chapter.
- 12 CHAIRPERSON BEDESSEM: New section.
- MS. THOMPSON: Yes.
- 14 BOARD MEMBER APPLEGATE: Yeah, new section,
- 15 Section 10. It's unclear why it's all colored blue,
- 16 because you're saying it's not a new chapter. So much of
- 17 the content there was already there.
- MR. TILLMAN: Yes.
- 19 MS. THOMPSON: Sort of. Okay. So he had
- 20 we have -- we have multiple versions. We have the version
- 21 that operators would be beholden to if we had primacy, and
- 22 that's the official copy that's on file with the Secretary
- 23 of State.
- 24 BOARD MEMBER APPLEGATE: Did that include
- 25 this chapter?

- 1 MS. THOMPSON: This particular section,
- 2 Section 10, the way it is worded now, is not in there.
- 3 BOARD MEMBER APPLEGATE: So one more time.
- 4 Was Section 10 -- I'm trying to understand my level of
- 5 review that's required of Section 10.
- 6 MS. THOMPSON: Right.
- 7 BOARD MEMBER APPLEGATE: Was Section 10,
- 8 injection depths waiver requirements, part of the current
- 9 regulatory framework? Is there a current Section 10?
- 10 MR. TILLMAN: No. Not in the chapter
- 11 that's on file with the Secretary of State.
- 12 MS. THOMPSON: Right. And you have seen
- 13 Section 10 before because we brought this chapter to you
- 14 before, and we're saying in this particular subparagraph
- 15 (a)(i), that we -- we submitted this chapter the way it
- 16 reads now to EPA, and they said, "No, not good enough in
- 17 that particular passage. You're in the right direction but
- 18 we want you to change the wording."
- 19 So the section is highlighted because in
- 20 comparison to the Secretary of State chapter it is new.
- 21 And when they do their review and the Legislative Services
- 22 Office does their review, and the Attorney General does
- 23 their review, they're going to compare everything to what's
- 24 on file now, and so they want to see what's new compared to
- 25 what's on file now.

- 1 CHAIRPERSON BEDESSEM: So we have to figure
- 2 out a way, when we're -- when we're looking at these
- 3 chapters -- so, for example, like the previous time we
- 4 looked at Chapter 24.
- 5 MS. THOMPSON: Yes.
- 6 CHAIRPERSON BEDESSEM: There was some
- 7 proposed changes.
- MS. THOMPSON: Yes.
- 9 CHAIRPERSON BEDESSEM: And then since that
- 10 time, based on the crosswalk and based on any additional
- 11 comments you may have received there may be additional
- 12 changes.
- MS. THOMPSON: Right.
- 14 CHAIRPERSON BEDESSEM: So we've got to
- 15 figure out a way the advisory board can see the newest
- 16 changes are in like a different color, then you can --
- 17 there's a method where then you can go back and make them
- 18 all same color when you send them to Secretary of State?
- MS. THOMPSON: Right.
- 20 CHAIRPERSON BEDESSEM: But that we can see
- 21 the incremental change because then we're thinking you
- 22 changed all this, but we've actually reviewed that before
- 23 at the previous meetings.
- MS. THOMPSON: That's correct.
- 25 CHAIRPERSON BEDESSEM: And there is a way

- 1 to do that, then make them all the same color so you're not
- 2 redoing your work for when you have go to the Secretary of
- 3 State. So if we can manage that so then we're not kind of
- 4 re-reviewing the previous efforts, that certainly will help
- 5 us out and let us understand what the newest changes are.
- 6 MS. THOMPSON: Okay.
- 7 MR. TILLMAN: I understand. I'm not
- 8 sure -- I guess I've got the previous draft that was
- 9 presented to you before.
- 10 CHAIRPERSON BEDESSEM: Uh-huh.
- 11 MR. TILLMAN: And in these sections I
- 12 believe there's six or seven changes. I can read what was
- 13 previously there, and then you can see what that change is.
- 14 Would that help you at this point? Because, again, I guess
- 15 understand what you're saying, that it's hard for you to
- 16 see what the incremental change was from last time to this
- 17 time.
- 18 CHAIRPERSON BEDESSEM: Right. Right. I'm
- 19 just saying going forward, you can do that in a different
- 20 color --
- MR. TILLMAN: Yes.
- 22 CHAIRPERSON BEDESSEM: -- then make it all
- 23 the same later, and that would be easier.
- And then it's up to you, Dave, if you would care
- 25 to see those small changes that are within the Section 10

- 1 that are the most recent update.
- BOARD MEMBER APPLEGATE: Yeah, I'm -- I'm
- 3 not as concerned about the recent changes. I'm trying to
- 4 understand the context of the overall change.
- 5 MR. TILLMAN: Okay.
- 6 MS. THOMPSON: Okay.
- 7 BOARD MEMBER APPLEGATE: And I'll repeat
- 8 it, because I wanted to make sure I heard it clear. This
- 9 Section 10 is not currently in the regulatory framework
- 10 that operators are required to adhere to.
- MS. THOMPSON: Yep.
- MR. TILLMAN: Correct.
- 13 BOARD MEMBER APPLEGATE: So it's a new
- 14 section.
- 15 MR. TILLMAN: This is all new section.
- 16 BOARD MEMBER APPLEGATE: So can you help me
- 17 understand what you might have explained at the last
- 18 advisory meeting, which, I apologize, I did miss that one,
- 19 the rationale or reason.
- 20 BOARD MEMBER CAHN: Dave, can you get a
- 21 little closer to the microphone, please?
- 22 BOARD MEMBER APPLEGATE: Can you provide me
- 23 the basis and rationale for the inclusion of Section 10,
- 24 give me a little background on why it became a necessary
- 25 component of the rules.

- 1 MR. TILLMAN: It was part of the federal
- 2 CFR that was associated with carbon sequestration. It was
- 3 a -- a depth waiver that pertained to that.
- 4 BOARD MEMBER APPLEGATE: And our earlier
- 5 rules did not have --
- 6 MR. TILLMAN: Did not have that.
- 7 THE REPORTER: One at a time.
- 8 MR. TILLMAN: No, the earlier rules did not
- 9 have that. This came out after we had already promulgated
- 10 the chapter. So as we were adding the part for financial
- 11 assurance, this part also needed to be added to the
- 12 chapter, so we added it at the same time.
- 13 BOARD MEMBER APPLEGATE: Okay. Thank you.
- 14 CHAIRPERSON BEDESSEM: And then can you
- 15 also check through, as you're going through your grammar
- 16 checks, or whatever, when you have USDWs plural, that it
- 17 doesn't have an apostrophe.
- MS. THOMPSON: Okay.
- 19 MR. TILLMAN: How would you like to
- 20 proceed, then, being there's some confusion as to the
- 21 incremental change? Would you like me to read the prior --
- 22 CHAIRPERSON BEDESSEM: Sounds to me like
- 23 there's some very minor changes that are related to the
- 24 crosswalk, so I don't know that you need to go through
- 25 those in detail.

- 1 MR. TILLMAN: Okay.
- 2 BOARD MEMBER APPLEGATE: And you've
- 3 answered my question, so I don't need to know what those
- 4 incremental changes were.
- 5 MR. TILLMAN: Okay.
- 6 CHAIRPERSON BEDESSEM: Just carry on.
- 7 MR. TILLMAN: Okay. Lines 1294 through
- 8 1299 were -- was reworded per the crosswalk.
- 9 Lines 1301 through 1305 were changed per the
- 10 crosswalk.
- 11 Lines 1334 through 1360 was added per the
- 12 crosswalk, that entire subsection.
- 13 Lines 419 -- excuse me, 1419.
- BOARD MEMBER CAHN: I didn't hear which
- 15 line you're on.
- MR. TILLMAN: 1419.
- 17 BOARD MEMBER CAHN: Before we go on to 1419
- 18 I have a question of lines. Does this work when I talk
- 19 directly into the phone? Is that better?
- 20 CHAIRPERSON BEDESSEM: It was better just a
- 21 moment ago.
- 22 BOARD MEMBER CAHN: Okay. Let me go back
- 23 to the speaker. Okay.
- 24 CHAIRPERSON BEDESSEM: Yeah, that's better.
- 25 Thank you.

- 1 BOARD MEMBER CAHN: Okay. So in lines
- 2 1385, it talks to "If the US EPA regional administrator
- 3 requires information to make a decision, the administrator
- 4 shall provide the information..." I think that
- 5 administrator then should be --
- 6 THE REPORTER: Ms. Cahn, can you repeat? I
- 7 think if you talk slower, it won't break up so bad.
- 8 BOARD MEMBER CAHN: Okay. Line 1385 says,
- 9 "If the US EPA regional administrator requires additional
- 10 information to make a decision, the administrator shall
- 11 provide the information." And I think the second
- 12 administrator, it doesn't make sense that EPA's requesting
- 13 information they're going to provide. I think the second
- 14 administrator or refers to DEQ, and so it should probably
- 15 say the director or it should say the EPA -- it should say
- 16 the DEQ administrator or something. It doesn't make sense
- 17 if EPA needs more information, that EPA's going to provide
- 18 the information.
- 19 MS. THOMPSON: That is -- this is correct,
- 20 Ms. Cahn. I believe we pulled that from the Federal
- 21 Register. And the way it was previously stated in the
- 22 Federal Register, it talks about the regional administrator
- 23 and the director. But the director is not the -- does not
- oversee the program, and so when we made that change, it
- 25 did confuse the matter. So we will add some clarifying

- 1 language there to more clearly state that the DEQ
- 2 administrator of Water Quality will be submitting that
- 3 additional information to EPA, if they so desire.
- BOARD MEMBER CAHN: Okay. Thank you.
- 5 MS. THOMPSON: Uh-huh.
- 6 MR. TILLMAN: Okay. Where was I? Lines
- 7 1439 through 1444 were changed per the EPA crosswalk.
- 8 And lines 1449 through 1457 were added per the
- 9 EPA crosswalk.
- 10 In Section 11, lines 1471 through 1476 were
- 11 changed per the EPA crosswalk.
- 12 Lines 1479 through 1480 were also changed per the
- 13 EPA crosswalk.
- 14 Lines 1491 through 1495 also changed per the EPA
- 15 crosswalk.
- 16 BOARD MEMBER CAHN: I have a comment on
- 17 those. I found that the new wording was extremely
- 18 difficult to follow, so I would suggest that be reworded.
- 19 Start the sentence with the end and say, "After the casing
- 20 is set and cemented, cement" --
- 21 CHAIRPERSON BEDESSEM: What line is this,
- 22 Lorie?"
- 23 BOARD MEMBER CAHN: I'm on line 1481
- 24 through 93, and I would start with -- I would propose the
- 25 sentence be changed to be, "After the casing is set and

- 1 cemented, cement bond and variable density logs, " plural,
- 2 "to evaluate cement quality radially that have," instead of
- 3 with, "sufficient resolution to identify, voids, or other
- 4 areas of missing cement, and a temperature log."
- 5 MR. TILLMAN: We'll take your comment under
- 6 advisement. We'll have to look and see how the comment was
- 7 received from the EPA and how they worded that. We
- 8 understand the grammar that you're suggesting. We'll take
- 9 a look at that.
- 10 BOARD MEMBER APPLEGATE: So -- I've seen
- 11 this occur before, so I'm going to ask this question. Are
- 12 we approving this today?
- 13 MR. TILLMAN: We would like to ask for
- 14 approval today, yes.
- 15 BOARD MEMBER APPLEGATE: Is that going to
- 16 be sufficient for you, Lorie?
- 17 CHAIRPERSON BEDESSEM: Yeah, it's not a --
- BOARD MEMBER CAHN: Excuse me?
- 19 CHAIRPERSON BEDESSEM: -- substantive
- 20 change. It's a --
- 21 BOARD MEMBER APPLEGATE: I'm just asking
- 22 her because we've got -- yeah. Are you going to be okay
- 23 with that response, given we're being asked to approve this
- 24 today?
- 25 BOARD MEMBER CAHN: Yeah, if they re-word

- 1 it. The wording was very confusing.
- 2 BOARD MEMBER APPLEGATE: They didn't say
- 3 they'd re-word it. They said they'd consider re-wording
- 4 it. From a process standpoint, I've just seen this get
- 5 hung up before, so I'd rather us work through it.
- 6 BOARD MEMBER CAHN: Yeah. I guess I'll
- 7 wait to see how many of these we can't resolve, how many
- 8 there are, so I'm going to withhold judgment.
- 9 BOARD MEMBER APPLEGATE: So last meeting
- 10 where we had this issue regarding a set of rules we wanted
- 11 to push it forward and we had a number of these unresolved,
- 12 so do we want to take a few minutes and try to work through
- 13 it or --
- MR. TILLMAN: I don't feel --
- 15 CHAIRPERSON BEDESSEM: Yeah, this --
- 16 MR. TILLMAN: Go ahead, Madam Chair.
- 17 CHAIRPERSON BEDESSEM: In that previous
- 18 case, there were substantive changes. This is basically
- 19 just rewording for clarity. It's not changing the meaning.
- 20 It's really just making it more understandable. So I'm not
- 21 sure that it's a parallel situation.
- 22 BOARD MEMBER CAHN: Marge, I can't -- I
- 23 can't hear you, Marge.
- 24 CHAIRPERSON BEDESSEM: I'm saying that I'm
- 25 not sure that's a -- a parallel situation.

- 1 Do you -- Bill, would you be able to repeat back
- 2 Lorie's suggestion, rather than us trying to hear?
- 3 MR. TILLMAN: I believe what she's
- 4 suggesting, what she said, after the -- after the casing is
- 5 set and cemented, a cement --
- 6 BOARD MEMBER CAHN: No, not "a." The "a"
- 7 is -- there's two things there, there's cement bond and
- 8 variable density logs. So "a" should not be there.
- 9 It's -- this is dependent on cement bond and variable
- 10 density logs, plural.
- 11 MR. TILLMAN: Madam Chair, Gina's just
- 12 looked it up, and I guess the way this is worded is the
- 13 exact quote from the CFR.
- MS. THOMPSON: The comma is where it is in
- 15 the CFR the way they've -- the way EPA has compared the CFR
- 16 to our chapter. They -- they compared the two passages and
- 17 they preferred theirs. And so I'm not quite sure how to
- 18 address that phrasing change and rearranging. I don't know
- 19 if that -- if that affects the overall meaning. Because
- 20 the way it reads, I'm wondering if that -- the bit about it
- 21 being after the casing is set and cemented, if that only
- 22 applies to the temperature log and they only want that
- 23 after the casing is set.
- 24 CHAIRPERSON BEDESSEM: So you're saying
- 25 your preference would be to leave the language as is

- 1 because you know that's already approved through the
- 2 crosswalk?
- MS. THOMPSON: Yes.
- 4 CHAIRPERSON BEDESSEM: And so it's a matter
- 5 of -- of whether Ms. Cahn is okay with that for the time
- 6 being.
- 7 BOARD MEMBER CAHN: The problem is that --
- 8 and I'll ask Dave and Marge -- I would think you can't do a
- 9 cement bond and variable density log until after the casing
- 10 is set and cemented. So the problem is we don't know that
- 11 after the casing is set and cemented -- it looks, according
- 12 to wording, that it's only for the temperature log, but it
- 13 is for all three things. You need a cement bond and you
- 14 need a -- a cement bond and variable density log -- or
- 15 logs, and that's three different things.
- 16 CHAIRPERSON BEDESSEM: Can we just put a
- 17 comma after temperature log?
- 18 BOARD MEMBER CAHN: Yeah, that would help.
- 19 CHAIRPERSON BEDESSEM: Let's just put a
- 20 comma after temperature log.
- 21 BOARD MEMBER CAHN: Is cement bond and
- 22 variable density log one thing or --
- 23 CHAIRPERSON BEDESSEM: I think that would
- 24 work to make it clear that the time frame of "After the
- 25 casing is set and cemented" applies to --

1 MR. TI	ILLMAN: The	entire
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- 2 CHAIRPERSON BEDESSEM: -- the entire
- 3 previous set of requirements.
- 4 And then you're not changing what -- what EPA has
- 5 already approved dramatically. You're just adding a comma
- 6 and it clarifies.
- Bill, are you okay with that?
- 8 MR. TILLMAN: That would be fine.
- 9 CHAIRPERSON BEDESSEM: Lorie, does that
- 10 work?
- BOARD MEMBER CAHN: Yeah.
- 12 CHAIRPERSON BEDESSEM: All right. It's a
- 13 compromise.
- BOARD MEMBER CAHN: No, that's fine.
- 15 CHAIRPERSON BEDESSEM: Okay. So do you
- 16 want to move on? I don't know what number you're at.
- 17 MR. TILLMAN: Yes. I'll find where I
- 18 stopped.
- 19 Okay. Moving on. Lines 1503 through 1505, we've
- 20 also changed per the crosswalk.
- 21 CHAIRPERSON BEDESSEM: You might want to
- 22 put the comma again after temperature log.
- 23 MR. TILLMAN: Got it. Thank you, ma'am --
- 24 or Madam Chair.
- 25 Lines 1527 through 1535 were changed per the

- 1 crosswalk.
- 2 Lines 1537 through 1539 were also changed per the
- 3 crosswalk.
- 4 Lines 1541 through 1550 were also changed per the
- 5 crosswalk, in particular lines 1546 through 1550 were
- 6 added.
- 7 Lines 1555 through 1557 were also changed per the
- 8 crosswalk. We added -- we changed the notification from 48
- 9 hours to 30 days per the EPA crosswalk.
- 10 Lines 1561 through 1570 were re-worded per the
- 11 EPA crosswalk.
- 12 Lines 1583 through 1585 were changed per the EPA
- 13 crosswalk.
- 14 Lines 1599 through 1601 were also changed per the
- 15 EPA crosswalk.
- 16 Lines 1603 through 1608 were changed per the EPA
- 17 crosswalk.
- 18 BOARD MEMBER APPLEGATE: I'm going to back
- 19 up here for just a second.
- MR. TILLMAN: Okay.
- 21 BOARD MEMBER APPLEGATE: Line 1555 on the
- 22 change from 48 to 30 days is very significant. It says,
- 23 "The owner or operator must" --
- 24 THE REPORTER: I'm sorry. Can you slow
- 25 down.

- BOARD MEMBER APPLEGATE: "The owner or operator must submit a schedule of such activities to the
- 3 administrator upon spudding the well" -- you're spudding
- 4 wells -- "and notify the administrator of any changes to
- 5 the schedule at least 30 days prior to the scheduled test."
- 6 Well, the changes that might occur would be
- 7 during the drilling of the well, and then you would be
- 8 giving them a couple days' notice for those changes. I
- 9 think you've made the -- the implementation of this almost
- 10 impossible by saying 30 days prior to the scheduled test.
- 11 I understand that's what the EPA might have had in their
- 12 rule, but it certainly seems unreasonable that once you
- 13 spudded the well, we now have a schedule, you have these
- 14 tests planned, something happens, you try to give two days'
- 15 notice to the administrator during the process of drilling
- 16 this well, that seems at least practical and implementable
- 17 to somehow say you have a change after spudding and you're
- 18 going to give him 30 days notice?
- 19 CHAIRPERSON BEDESSEM: Is this from the
- 20 crosswalk or --
- MR. TILLMAN: Yes.
- 22 BOARD MEMBER APPLEGATE: I would tell them
- 23 they're wrong. It seems impossible. I think it's
- 24 unworkable the way it's written.
- 25 MR. TILLMAN: Let's look and see what

- 1 the --
- MS. THOMPSON: So this comes from 40 CFR
- 3 146.87(f), and the CFR reads the owner or operator must
- 4 provide the director with the opportunity to witness all
- 5 logging and testing by the subparts. The owner or operator
- 6 must submit a schedule of such activities to the director
- 7 30 days prior to conducting the first test and submit any
- 8 changes to the schedule 30 days prior to the next scheduled
- 9 test.
- 10 BOARD MEMBER APPLEGATE: That seems to be a
- 11 little different than what's written here.
- 12 BOARD MEMBER CAHN: Upon spudding the well
- 13 was added by DEQ.
- 14 CHAIRPERSON BEDESSEM: So we need to delete
- 15 the "upon spudding the well."
- 16 BOARD MEMBER CAHN: EPA's language might be
- 17 better than DEQ's.
- 18 MS. THOMPSON: Yeah, the -- the -- the
- 19 timing was the issue. It was the difference of 48 hours
- 20 versus 30 days, and they were concerned that it was a less
- 21 stringent passage.
- 22 BOARD MEMBER APPLEGATE: I think the idea
- 23 of giving 30 days notice before you start a project, that
- 24 seems reasonable. But to somehow say that you -- upon
- 25 spudding the well, that you -- yeah, you created a

- 1 disconnect here because you spudded the well, you could
- 2 have changes occur and you're not going to be able to give
- 3 30 days' notice for those changes.
- 4 CHAIRPERSON BEDESSEM: Is -- the term "upon
- 5 spudding the well" is not in the federal version?
- MS. THOMPSON: It is not.
- 7 CHAIRPERSON BEDESSEM: So the suggestion is
- 8 to remove that.
- 9 MS. THOMPSON: So if we -- if we adopted
- 10 the federal passage --
- 11 BOARD MEMBER APPLEGATE: Could you read the
- 12 federal passage one more time?
- 13 MS. THOMPSON: The owner or operator must
- 14 provide the director with the opportunity to witness all
- 15 logging and testing by the subparts. The owner or operator
- 16 must submit a schedule of such activities to the director
- 17 30 days prior to conducting the first test and submit any
- 18 changes to the schedule 30 days prior to the next scheduled
- 19 test.
- 20 BOARD MEMBER APPLEGATE: So all that makes
- 21 sense to me, other than the -- no, that just read the last
- 22 phrase. It says 30 days and in any --
- 23 MS. THOMPSON: Must submit -- so prior to
- 24 conducting the first test --
- 25 BOARD MEMBER APPLEGATE: That makes sense.

- 1 MS. THOMPSON: -- and submit any changes to
- 2 the schedule 30 days prior to the next scheduled test.
- BOARD MEMBER APPLEGATE: Yeah, that part
- 4 I'm just not familiar enough with the drilling. But just
- 5 seems to me that last part, some changes occur in the
- 6 drilling process that could necessitate a change to the
- 7 schedule that then would not necessarily allow a 30-day
- 8 notice, but --
- 9 BOARD MEMBER CAHN: Dave, can you use the
- 10 microphone more, please.
- 11 BOARD MEMBER APPLEGATE: I think the last
- 12 part of that phrase potentially poses problems, but I think
- 13 it's better than the language that's here. I would suggest
- 14 the federal language.
- 15 CHAIRPERSON BEDESSEM: Let's just
- 16 substitute --
- 17 MR. TILLMAN: The entire passage or at --
- 18 CHAIRPERSON BEDESSEM: The second
- 19 paragraph.
- MR. TILLMAN: Where it picks up the
- 21 owner/operator?
- 22 CHAIRPERSON BEDESSEM: Yes.
- 23 BOARD MEMBER APPLEGATE: Giving 30 days'
- 24 notice -- you're giving 30 days' notice prior to the first
- 25 test, which I think is reasonable. And that's a schedule

- of the tests as you plan to implement them. I think it's
- 2 possible that those tests then could be affected by the
- 3 schedule in drilling the well, but -- but I still think
- 4 that's better language because it basically says you're
- 5 giving a schedule 30 days prior to doing the test.
- 6 MR. TILLMAN: Okay. I think we can adopt
- 7 that federal language in that section and replace that.
- 8 BOARD MEMBER APPLEGATE: I will say I think
- 9 your original language was the best language because your
- 10 original language that you had in here basically said you
- 11 spud a well, you've given them a schedule, and if you have
- 12 any changes, you try to give them at least two days' notice
- 13 prior to that.
- So do you have any -- you're at the point where
- 15 you don't want to do any more interactions with EPA,
- 16 correct?
- 17 CHAIRPERSON BEDESSEM: That adds a lot of
- 18 time.
- MR. TILLMAN: We prefer not. They've had a
- 20 chance to look at it and review it in its entirety. We've
- 21 responded back. They kind of say, "We like that language."
- 22 Our preference is not to go back and forth with them
- 23 more --
- BOARD MEMBER APPLEGATE: I understand.
- 25 MR. TILLMAN: -- within reason, I suppose.

1 CHAIRPERSON BEDESSEM: But if yo	ou just use
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- 2 the federal one for that paragraph, they should not have
- 3 any objection.
- 4 MR. TILLMAN: There shouldn't be any
- 5 objection to that.
- 6 CHAIRPERSON BEDESSEM: And you don't have
- 7 to -- it doesn't have to go back for review.
- 8 MR. TILLMAN: I would think not, Madam
- 9 Chair.
- 10 CHAIRPERSON BEDESSEM: Okay.
- MR. TILLMAN: Moving forward.
- 12 CHAIRPERSON BEDESSEM: Uh-huh.
- MR. TILLMAN: I believe we're on --
- 14 BOARD MEMBER CAHN: Let me ask a question,
- 15 since we are trying to get exact language for moving this
- 16 forward. I'm going to still make an assumption that
- 17 editing that does not change the meaning does not have to
- 18 be brought before the board. I can just provide those to
- 19 Gina. Is that correct, or do we -- do I need to bring them
- 20 up? I only have about a dozen of them.
- 21 MR. TILLMAN: No, you can bring those to
- 22 Gina, as we've previously done.
- BOARD MEMBER CAHN: Okay.
- 24 CHAIRPERSON BEDESSEM: Uh-huh.
- 25 MR. TILLMAN: Okay. Lines 1583 through

- 1 1585 were changed per EPA crosswalk.
- 2 Lines 1599 through 1601 changed per the EPA
- 3 crosswalk.
- 4 Lines 1603 through 1608 changed per the EPA
- 5 crosswalk.
- In line 1621 we added the part "or formation
- 7 fluids" to that paragraph per the EPA crosswalk.
- 8 And also in line 1624, we removed the part of
- 9 discovery from that sentence. So it reads, "Notify the
- 10 administrator within 24 hours."
- 11 Madam Chair, you had a look of confusion.
- 12 CHAIRPERSON BEDESSEM: I'm confused because
- 13 the only change I see on Section 24 is capitalization
- 14 change.
- MR. TILLMAN: There was a part that was
- 16 deleted and --
- 17 CHAIRPERSON BEDESSEM: So you need to have
- 18 that strike-out in there.
- 19 MR. TILLMAN: Yes. I believe it previously
- 20 read, "Notify the administrator within 24 hours of
- 21 discovery," and we -- we removed the "of discovery" part.
- 22 MS. THOMPSON: We'll -- Madam Chair, we
- 23 will correct that in the draft.
- 24 CHAIRPERSON BEDESSEM: And that's why my
- 25 brow was furrowed. I was like --

- 1 MR. TILLMAN: Okay. I noticed confusion.
- 2 I had to stop.
- 3 CHAIRPERSON BEDESSEM: Yes, thank you.
- 4 MR. TILLMAN: Moving on in Section 13. In
- 5 line 1642, we add the word "'continuously' monitor" at the
- 6 end of that sentence -- or end of that part of that line.
- 7 Lines 1646 through 1650 were changed per the EPA
- 8 crosswalk.
- 9 Lines 1652 through 1654 were added per the EPA
- 10 crosswalk. Also, lines 1656 through 1658 were also added
- 11 per the EPA crosswalk.
- 12 BOARD MEMBER CAHN: Can we go back to line
- 13 1642 where it's "continuously monitoring." So if we go to
- 14 1600, we're continuously monitoring pressure, so I envision
- 15 we have a transducer. When you get 1640 -- the only thing
- 16 that we're continuously monitoring is the pressure -- it's
- 17 only continuously monitoring the pressure, but not the
- 18 rate. I mean, I don't know what kind of --
- THE REPORTER: Repeat that, Ms. Cahn.
- BOARD MEMBER CAHN: Excuse me?
- 21 THE REPORTER: Can you repeat that.
- BOARD MEMBER CAHN: I'm on line 1642, and
- 23 the word "continuously" was added, and I am trying to
- 24 figure out if continuously only applies to pressure,
- 25 because that's where we can put in a transducer and measure

- 1 the pressures. I'm not sure continuously measures the
- 2 other in that sentence, injection volumes...but -- so can
- 3 somebody tell me what -- DEQ, can you say what kind of
- 4 instrumentation you're envisioning the some kind of
- 5 continuous monitor other than a pressure transducer?
- 6 MR. TILLMAN: Ms. Cahn, I believe the
- 7 comment from the EPA only regarded the injection pressure,
- 8 so that would be a transducer that would continuously
- 9 monitor that -- that would be the injection pressure.
- 10 BOARD MEMBER CAHN: Then --
- 11 CHAIRPERSON BEDESSEM: Lorie?
- BOARD MEMBER CAHN: Yes.
- 13 CHAIRPERSON BEDESSEM: On line 1592, which
- 14 is subsection (e), it says, "The owner or operator must
- 15 install and use continuous recording devices to monitor,"
- 16 both "injection pressure; and rate, volume, and temperature
- 17 of the carbon dioxide stream."
- 18 BOARD MEMBER CAHN: What line are you on?
- 19 CHAIRPERSON BEDESSEM: It's 1592 through
- 20 1597. It says, "...continuous recording device to monitor:
- 21 injection pressure; and rate, volume and temperature of the
- 22 carbon dioxide stream."
- MR. TILLMAN: So it's everything.
- MR. JENNINGS: It's everything.
- 25 BOARD MEMBER CAHN: Okay. Then the wording

- 1 is fine in 164 -- 1640 through 1644. Okay.
- 2 CHAIRPERSON BEDESSEM: Okay. Thank you.
- I think you were up to maybe 1647.
- 4 MR. TILLMAN: Yes. I believe I'm on -- I
- 5 believe I mentioned that 1652 through 1654 were added per
- 6 the crosswalk.
- 7 And lines 1656 through 1658 were also added per
- 8 the EPA crosswalk.
- 9 Moving on to Section 14. Lines 1692 through 1693
- 10 were added per the EPA crosswalk.
- 11 Lines 1695 through 1698 were changed per the EPA
- 12 crosswalk.
- 13 Line 1728 was added per the EPA crosswalk, and
- 14 lines 1730 through 1731, part of that was removed per the
- 15 EPA crosswalk. And also lines 1733 through 1737 part of
- 16 that passage was removed per the EPA crosswalk.
- 17 Lines 1756 through 1759 were changed per the EPA
- 18 crosswalk. Also, lines 1761 through 1764 were changed per
- 19 the EPA crosswalk.
- 20 Lines 1773 through 1777 were added per the EPA
- 21 crosswalk.
- 22 Lines 1783 through 1784 were also changed per the
- 23 EPA crosswalk.
- Lines 1793 through 1798 were changed per the EPA
- 25 crosswalk. Hang on. Excuse me. In lines 1793 through

- 1 1798 we just changed references in that section. There was
- 2 nothing added there. The part that was added was further
- 3 down.
- 4 Lines 1807 through 1825 were added per the EPA
- 5 crosswalk.
- 6 Lines 1835 through 1836, part of it was removed
- 7 per the EPA crosswalk.
- 8 Lines 1866 through 1887 -- excuse me -- excuse
- 9 me -- through 1890 were added per the EPA crosswalk.
- MS. THOMPSON: And, Madam Chairman, I'll
- 11 point out that the formatting -- there seems to be a
- 12 formatting error. The additions that we made in the
- 13 passage that he just mentioned, I'm not sure why, but the
- 14 coloring didn't transfer over. It's in two places, so
- 15 it's -- this is in a Word document, and had my "track
- 16 changes" on, and underneath the track changes the
- 17 formatting is supposed to appear, and for some reason it is
- 18 not here.
- 19 CHAIRPERSON BEDESSEM: Starting on what
- 20 line, Gina?
- 21 MR. TILLMAN: It would be lines 1866
- 22 through 1890.
- MS. THOMPSON: So the --
- 24 MR. TILLMAN: Should have been highlighted
- 25 blue.

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1	MC	THOMPSON:	Yeah.
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- MR. TILLMAN: As a new --
- MS. THOMPSON: Yeah. And the EPA requested
- 4 that we add that "24-hour reporting" section because they
- 5 found it confusing the way it had been distributed before.
- 6 CHAIRPERSON BEDESSEM: So it's the same
- 7 requirements, it's just --
- MS. THOMPSON: They're in one section.
- 9 CHAIRPERSON BEDESSEM: -- weird organized.
- MS. THOMPSON: Yeah.
- 11 MR. TILLMAN: Lines 1895 through 1897 were
- 12 also changed per the EPA crosswalk.
- And lines 1906 through 1909, we changed the
- 14 retention schedule from 3 years to 10 years per the EPA
- 15 crosswalk.
- 16 In line 1945, the words "in writing" was added to
- 17 that line. Where it reads, "The owner or operator must
- 18 notify the administrator, in writing, at least 60 days
- 19 prior.
- 20 Lines 1954 through 1956 were added per the EPA
- 21 crosswalk.
- 22 Also lines 1964 through 1968 were added per the
- 23 EPA crosswalk.
- In lines 1975 through 1976, the part of the
- 25 sentence, "The requirement to maintain and implement an

- 1 approved plan is directly enforceable regardless of whether
- 2 a requirement is a condition of the permit, was added per
- 3 the EPA crosswalk.
- 4 Lines 1998 through 1999 were changed per the EPA
- 5 crosswalk.
- 6 Lines 2006 through 2014 were added per the EPA
- 7 crosswalk.
- 8 CHAIRPERSON BEDESSEM: Again, like this is
- 9 just a grammatical thing, 2021.
- 10 MR. TILLMAN: At --
- 11 CHAIRPERSON BEDESSEM: Make sure those
- 12 apostrophes are not in it.
- 13 MS. THOMPSON: Thank you, Madam Chairman.
- MR. TILLMAN: And lines 2019 through 2021
- 15 were altered -- were also changed per the EPA crosswalk.
- 16 We added parts to that sentence -- or to those sentences --
- or that passage, excuse me.
- 18 CHAIRPERSON BEDESSEM: Uh-huh.
- MR. TILLMAN: Lines 2023 through 2025 were
- 20 also changed per the EPA crosswalk.
- 21 Line 2043, the portion in writing was added to
- 22 that line per the crosswalk.
- 23 Lines 2049 through 2051 were also changed per the
- 24 EPA crosswalk.
- 25 Lines 2053 through 2056 were also changed per the

- 1 EPA crosswalk.
- 2 In lines 20 -- 2068 it was changed to read "US
- 3 EPA regional administrator" per the crosswalk.
- 4 CHAIRPERSON BEDESSEM: We're almost getting
- 5 to the end.
- 6 MR. TILLMAN: Yes. We're getting close.
- 7 And lines 2106 through 2110 were also changed per
- 8 the EPA crosswalk.
- 9 In lines 2122 through 2123, that sentence was
- 10 added per the EPA crosswalk.
- 11 Lines 2128 through 2130 were added per the
- 12 crosswalk.
- 13 Additionally, lines 2132 through 2140 were added
- 14 per the EPA crosswalk.
- In line 2144 the word "may" was added per the EPA
- 16 crosswalk.
- 17 Lines 2149 through 2150 were also changed per EPA
- 18 crosswalk.
- In line 2152 the words "as soon as practicable"
- 20 were removed and replaced with "within 24 hours." Again,
- 21 within the EPA crosswalk.
- 22 CHAIRPERSON BEDESSEM: Just a general
- 23 question. Like in line 2144, EPA crosswalk they wanted you
- 24 to say "may endanger drinking water," but they didn't put
- 25 the "may" in front of threaten, may threaten. So they want

- 1 wiggle room on the drinking water, but not on the -- the
- 2 remaining items. It seems inconsistent.
- 3 MR. TILLMAN: Madam Chair, I understand
- 4 your concern. We noted that's where they would like that
- 5 "may" positioned. Sometimes --
- 6 CHAIRPERSON BEDESSEM: I'm just --
- 7 MR. TILLMAN: I was going to say sometimes
- 8 their comments don't necessarily make a lot of sense to us,
- 9 but considering what they're considering, we consider that
- 10 to be a minor change that we can accommodate.
- 11 CHAIRPERSON BEDESSEM: Thank you. You've
- 12 answered my question.
- 13 MR. TILLMAN: And, again, I think Section
- 14 19 is going to be somewhat confusing, being this is new to
- 15 the chapter, but there were changes within that section
- 16 that the EPA noted. So, again, as your previous comment as
- 17 far as trying to --
- 18 CHAIRPERSON BEDESSEM: Right. We've
- 19 already seen that.
- 20 MR. TILLMAN: -- do that in color, we will
- 21 definitely do that next time.
- 22 CHAIRPERSON BEDESSEM: Yes. We saw this
- 23 before, but, again, for future try to highlight the new
- 24 changes.
- 25 MR. TILLMAN: Line 20 -- 2207 to 2208 were

- 1 changed to be consistent with the working group report.
- 2 BOARD MEMBER APPLEGATE: That was the
- 3 State's working group report on financial assurance?
- 4 MR. TILLMAN: Yes.
- 5 BOARD MEMBER APPLEGATE: Has that been
- 6 provided to this board?
- 7 MS. THOMPSON: I believe when they first
- 8 promulgated the rule, they promulgated the reports. And I
- 9 believe I have a copy of it available PDF, so if you'd like
- 10 to revisit that, I can send that to you.
- 11 BOARD MEMBER APPLEGATE: Just I'd --
- 12 MS. THOMPSON: But it's not in your current
- 13 packet.
- 14 BOARD MEMBER APPLEGATE: That's fine. If
- 15 you can just send a link or a copy of the PDF, that would
- 16 be appreciated.
- 17 MS. THOMPSON: It used to be on our
- 18 website, and when we migrated websites, we pared down the
- 19 information, but I can send that.
- 20 BOARD MEMBER APPLEGATE: Is this chapter,
- 21 as written, consistent with that?
- 22 MR. TILLMAN: Yes. In line 2210 we removed
- 23 long-term care for consistency with the statute and the
- 24 working group, and we added the emergency and remedial
- 25 response that meets the requirements of Section 18 to this

- 1 chapter per the EPA crosswalk.
- 2 Lines 2216 through 2221 were changed per the EPA
- 3 crosswalk.
- 4 BOARD MEMBER CAHN: I have a question on
- 5 lines 2220 to 2221, that last sentence, the cost estimate
- 6 determines requirements -- "The cost estimate determines
- 7 the submission requirements for the financial
- 8 responsibility instruments," requirements should be set. I
- 9 need you to explain how a cost estimate determines
- 10 submission requirements.
- 11 CHAIRPERSON BEDESSEM: So I'm assuming that
- 12 what form the financial responsibility instrument you use
- 13 is dependent upon the results of the cost estimate.
- MR. TILLMAN: Yes, ma'am.
- 15 CHAIRPERSON BEDESSEM: So the cost estimate
- 16 comes to be within this range, then you can --
- MR. TILLMAN: You can use --
- 18 CHAIRPERSON BEDESSEM: -- establish your
- 19 financial responsibility using this type of instrument.
- 20 And if the cost estimate is a -- comes to a different
- 21 value, then you may have to use an alternative financial
- 22 instrument.
- 23 MR. TILLMAN: Yes, Madam Chair. I believe
- 24 that's the intent.
- 25 CHAIRPERSON BEDESSEM: I think that's what

- 1 they were getting at, Lorie.
- 2 BOARD MEMBER CAHN: Okay. Is that language
- 3 that of EPA, or can we work on that language?
- 4 MR. TILLMAN: Let us check and see if we
- 5 can find that real quick. I believe that's federal
- 6 language, though.
- 7 CHAIRPERSON BEDESSEM: So is Gina checking
- 8 to see if --
- 9 MS. THOMPSON: I am.
- MR. TILLMAN: Yes.
- 11 CHAIRPERSON BEDESSEM: So we can
- 12 continue --
- MR. TILLMAN: Okay.
- 14 CHAIRPERSON BEDESSEM: -- in the interest
- of time, while Gina's checking, and we'll move back to
- 16 that.
- 17 MR. TILLMAN: Yes, Madam Chair.
- 18 CHAIRPERSON BEDESSEM: Thank you.
- MR. TILLMAN: Moving along. Lines 2249 to
- 20 2250 were edited per Ms. Cahn's comments.
- 21 BOARD MEMBER CAHN: Okay. And I have
- 22 question about that. And, again, I'd want to know language
- 23 from the EPA or whether we can work on that.
- MR. TILLMAN: In lines --
- 25 BOARD MEMBER CAHN: So I -- this is

- 1 something that we brought up before, that I really didn't
- 2 understand how the risk activity matrix activity's being
- 3 evaluated and feel that, first of all, there was another
- 4 reference. So you've added the reference, but it's still
- 5 unclear to me how it would be evaluated. So it's not that
- 6 the act -- so I'm wondering if we could start the sentence
- 7 with "The activities in the Risk Activity matrix in
- 8 Appendix A shall be" -- now, you have, "shall be considered
- 9 or evaluated, " so you -- you don't want -- I mean, what's
- 10 the difference? So is it and consider -- considered and
- 11 evaluated, or is it that they should evaluate it?
- 12 Obviously, if you evaluate them, they're considered, so...
- 13 MR. TILLMAN: Ms. Cahn, I believe the
- 14 intent of that matrix was for them, there were certain
- 15 activities that the working group had come up with that
- 16 they deemed important to be considered when they were doing
- 17 their risk activity matrix, and they wanted to make sure
- 18 that certain things were included in those activities. So
- 19 these are things to be considered. They may not apply in
- 20 every case, so we have listed several things in all the
- 21 different phases of the carbon sequestration project. And
- 22 depending on where you're at, certain things may be
- 23 considered, certain things may not be a part of what might
- 24 be possible in the project going forward. So, again, they
- 25 were -- they were things to be considered when coming up

- 1 with that risk assessment, which leads to the cost
- 2 estimate, you know, for the financial assurance.
- 3 CHAIRPERSON BEDESSEM: Can you just delete
- 4 "or evaluated," since it apparently is the same thing?
- 5 BOARD MEMBER CAHN: Yeah, I think --
- 6 MR. TILLMAN: Let me see what was -- I
- 7 don't know if it was in the previous --
- 8 MS. THOMPSON: Oh, this is -- that's new.
- 9 MR. TILLMAN: Oh, the word "evaluated" is
- 10 new?
- MS. THOMPSON: No, the whole line is new
- 12 because we -- we didn't call out the Appendix A and in
- 13 the -- at the previous meeting, Ms. Cahn noted we didn't
- 14 really talk about this appendix, and it's there and so --
- 15 CHAIRPERSON BEDESSEM: So this ties this
- 16 in. So just take out the word "evaluated."
- MR. TILLMAN: That's fine.
- 18 BOARD MEMBER CAHN: And add in the
- 19 beginning of the sentence, say, "The activities in the risk
- 20 activity matrix shall be -- in Appendix A shall be
- 21 considered during the risk assessment process."
- 22 MR. TILLMAN: That sounds fine Ms. Cahn.
- 23 We will make that change.
- 24 BOARD MEMBER APPLEGATE: So is this chapter
- 25 generally consistent with the federal rules?

- 1 $\operatorname{MS.}$ THOMPSON: In general, the -- we also
- 2 took into consideration the carbon sequestration working
- 3 group reports, and there's a lot more statutory
- 4 requirements out of the Wyoming statutes that we had to
- 5 account for as well. So that previous comment on 19(d),
- 6 that -- that does not seem to be a direct quote out of the
- 7 Federal Register. So it looks like we -- we might have
- 8 some editing room.
- 9 MR. TILLMAN: Okay.
- 10 MS. THOMPSON: But, again, we were --
- 11 CHAIRPERSON BEDESSEM: What line is that?
- MS. THOMPSON: That was --
- 13 MR. TILLMAN: 29 -- 2249, 2250, what we
- 14 just looked at.
- MS. THOMPSON: No, the --
- 16 BOARD MEMBER CAHN: Gina, you're talking
- 17 about --
- 18 MR. TILLMAN: I'm sorry. She's talking
- 19 about the previous.
- 20 MS. THOMPSON: The 21 -- 2221.
- BOARD MEMBER CAHN: 22 --
- 22 CHAIRPERSON BEDESSEM: Let's figure out
- 23 what it's going to be if we want to have the option
- 24 involved to move this forward. Let's get everything tied
- 25 down.

- 1 MS. THOMPSON: But for that item, we are
- 2 not tied to the CFR. They did not -- we didn't pull all of
- 3 our wording from there. So we combined -- we had to pull
- 4 from the CFR, the working group report and the statutes to
- 5 flesh that out.
- 6 BOARD MEMBER APPLEGATE: Okay. So to that
- 7 end, are you -- does that address your comment, Lorie?
- 8 BOARD MEMBER CAHN: How was the sentence
- 9 worded?
- 10 BOARD MEMBER APPLEGATE: I'm assuming the
- "or evaluated" to be deleted.
- 12 MR. TILLMAN: Yes. We've agreed to that.
- 13 CHAIRPERSON BEDESSEM: Yes. We've got --
- 14 it says, "The activities and the risk activity matrix" --
- BOARD MEMBER CAHN: I'm having a hard time
- 16 hearing.
- 17 CHAIRPERSON BEDESSEM: Okay. The final on
- 18 2249 was, "The activities in the risk activity matrix in
- 19 Appendix A shall be considered during the risk assessment
- 20 process."
- 21 BOARD MEMBER CAHN: Yes that was --
- 22 CHAIRPERSON BEDESSEM: That was on line
- 23 2249.
- MR. TILLMAN: I believe Gina was just going
- 25 back to 2220, 2221 that last sentence, "The estimate

- 1 determines the" --
- THE REPORTER: You're going to have to slow
- 3 down.
- 4 MR. TILLMAN: "The cost estimate determines
- 5 the submission requirements for the financial
- 6 responsibility instruments." That is our language, so we
- 7 do have some editing room, if -- if Ms. Cahn has --
- 8 BOARD MEMBER CAHN: How about rearranging
- 9 it to just "The submission requirements for the financial
- 10 responsibility instruments are determined after the cost
- 11 estimate is submitted, " or something like that?
- 12 BOARD MEMBER APPLEGATE: I think they are
- 13 trying to imply that there's --
- 14 BOARD MEMBER CAHN: Or based on --
- 15 BOARD MEMBER APPLEGATE: -- consult -- it's
- 16 not just a timing consideration, but also there's an aspect
- 17 of cause and effect there.
- 18 CHAIRPERSON BEDESSEM: It's just based on
- 19 results of the cost estimate.
- 20 BOARD MEMBER CAHN: Yeah, that would work.
- 21 CHAIRPERSON BEDESSEM: So, "The submission
- 22 requirements for the financial responsibility instruments
- 23 are based on results of the cost estimate."
- MS. THOMPSON: Okay.
- MR. TILLMAN: That sounds fine, yes.

- 1 BOARD MEMBER APPLEGATE: So I think this is
- 2 a really complex chapter. And if you were in the
- 3 regulatory -- if you were the regulated community --
- 4 BOARD MEMBER CAHN: Dave, I'm having a hard
- 5 time hearing you.
- 6 BOARD MEMBER APPLEGATE: I said this is a
- 7 very complex chapter, and if you were in the regulated
- 8 community, I think you would be left with some uncertainty
- 9 about this, so I want to ask a couple questions along those
- 10 lines.
- On line 2258, it says, "The probability
- 12 distributions for potential damages should be identified
- 13 for 50 percent, 95 percent and 99 percent of all cases."
- 14 You're going to go through this exercise, and you're going
- 15 to generate these different risk scenarios and you're going
- 16 to identify costs associated with those. And those costs
- 17 are going to vary quite a bit, depending on whether or not
- 18 it's somebody that has a high probability or 50 percent
- 19 probability. Maybe I have an accountant here, but the
- 20 financial assurance is going to be attached to what
- 21 probability or how -- how does one get from running this
- 22 range of alternatives of risk scenarios and then get to the
- 23 answer of what type of financial assurance one needs to
- 24 apply? Because I can assure you that when you go through
- 25 this exercise, you're going to have a range of costs that

- 1 are quite variable. And for lower probability events, the
- 2 costs are going to be quite high, much higher than for more
- 3 probable events. And so I'm not enlightened by this text
- 4 so far in understanding what amount of financial assurance
- 5 I would need to get as I go through this process. I
- 6 understand you can't tell me the dollar amount. I'm trying
- 7 to understand the process. The process is not clear, in my
- 8 opinion.
- 9 BOARD MEMBER CAHN: Dave, I share your
- 10 concern. I had the same questions about that Section D.
- 11 BOARD MEMBER APPLEGATE: So, again, just to
- 12 put a point on the concern. It's a very sophisticated
- 13 process. It's going to give a wide range of costs, and
- 14 then the rubber meets the road, you're going to ask the
- 15 person -- because of interest -- of course, this is all in
- 16 anticipation of the market for CO2 sequestration, of which
- 17 no one has employed the use of this set of regulations. I
- 18 don't know if they've been employed. Has anyone
- 19 nationally?
- MR. TILLMAN: Not that we're aware of.
- 21 MS. THOMPSON: The State of North Dakota
- 22 has their package in for primacy review, but it has not
- 23 been approved, so...
- 24 BOARD MEMBER APPLEGATE: Okay. So I don't
- 25 know -- and when I look at this 2258, again, I guess

- 1 there's the question of is that federal language or is
- 2 that -- where did we get the language? The language begs
- 3 how do you apply these various -- you know, how does one
- 4 choose what one needs financial assurance for? Because,
- 5 again, if you have to provide financial assurance for
- 6 something that has 50 percent probability, that's going to
- 7 be a lot -- and I'm not saying -- I don't know what's
- 8 reasonable here. I'm not sure I have a proposed answer.
- 9 But the regulatory framework, as it's crafted, leaves a lot
- 10 of uncertainty and discretion to the enforcers of the
- 11 regulation enforcers.
- 12 MR. TILLMAN: This part -- this part of the
- 13 regulation that we're discussing here basically comes from
- 14 the -- the state working group. And they were the ones
- 15 that -- I believe their intent was like you indicated,
- 16 depending on the probability of an event occurring,
- 17 determines what -- how much risk there is and the money
- 18 associated to cover that risk of an event. And I believe
- 19 they were just trying to capture, I guess, the most dollar
- 20 amount that would cover those events that could happen,
- 21 basically, to try not to leave the state, you know, holding
- 22 the bag --
- BOARD MEMBER APPLEGATE: Sure.
- MR. TILLMAN: -- to fix, I guess,
- 25 environmental problems that may occur from sequestration.

- 1 And, honestly, I'm not a financial guy, so interpreting,
- 2 you know, the probabilities and this curve, I'm not really
- 3 sure how to address that answer, but my understanding is
- 4 that, basically, they're trying to cover all the known
- 5 probability -- known risks for the project as best they
- 6 could. And, again, I agree, I don't know how this would
- 7 actually take place in industry, being that no one has
- 8 started to do this.
- 9 BOARD MEMBER APPLEGATE: So I'm not going
- 10 to -- I don't have a suggested change.
- MS. THOMPSON: Okay.
- 12 BOARD MEMBER APPLEGATE: I'm not going to
- 13 not approve or move forward the regulations. I just simply
- 14 want to highlight I think it's part of the regulatory
- 15 framework I think is very uncertain, and I think it --
- 16 implementationwise, it's going to be challenging.
- 17 CHAIRPERSON BEDESSEM: And you may come
- 18 back with revisions to this rule after you have the first
- 19 applicant.
- 20 MR. TILLMAN: I would say that I'm almost
- 21 sure if we had some people that would try this and we've
- 22 gone through a scenario, that we would have a better idea
- 23 as to what the concerns are, what we need to fix because,
- 24 again, we had no comments from industry. We were hoping we
- 25 would get comments from some of the financial people

- 1 associated with these projects, so they can kind of tell
- 2 us, "Hey, we understand that," and, "That makes sense," or,
- 3 Mr. Applegate, as you suggested, "It's kind of confusing
- 4 how to put that all together." We haven't had any
- 5 comments, so we're not really sure --
- 6 BOARD MEMBER APPLEGATE: You have no
- 7 industrial response because you have no one out there
- 8 that's --
- 9 CHAIRPERSON BEDESSEM: That's looking to do
- 10 this.
- 11 BOARD MEMBER APPLEGATE: -- looking to do
- 12 it.
- MR. TILLMAN: Exactly.
- BOARD MEMBER APPLEGATE: And if people are
- 15 doing it, are doing it in the context of enhanced oil
- 16 recovery, so they're falling under a different --
- MR. TILLMAN: Different --
- 18 BOARD MEMBER APPLEGATE: -- regulatory --
- MR. TILLMAN: Sure. We share your concerns
- 20 about --
- 21 CHAIRPERSON BEDESSEM: So there's a reason
- 22 it's nebulous at the moment.
- BOARD MEMBER APPLEGATE: Right.
- 24 BOARD MEMBER CAHN: I have some just
- 25 re-wording of that sentence to at least make it

- 1 understandable to me what you're expecting, and it would
- 2 read maybe -- because I didn't understand the sentence. My
- 3 rewrite could be wrong, but...
- 4 CHAIRPERSON BEDESSEM: Which line?
- 5 BOARD MEMBER CAHN: That -- line 2258,
- 6 2259. So if it started out, "For all cases of" --
- 7 THE REPORTER: Can you repeat that?
- 8 BOARD MEMBER CAHN: -- "the probability
- 9 distributions should be identified for 50 percent,
- 10 95 percent, and 99 percent probabilities of occurrence."
- 11 CHAIRPERSON BEDESSEM: I will read that
- 12 back. Say, "For all cases of potential damages, the
- 13 probability distributions should be identified for
- 14 50 percent, 95 percent, and 99 percent of all probabilities
- 15 of occurrence."
- BOARD MEMBER CAHN: Not of all, just
- 17 "99 percent probabilities of occurrence."
- 18 CHAIRPERSON BEDESSEM: Okay. Deleting the
- 19 "of all."
- 20 MR. TILLMAN: The part doesn't make sense
- 21 for me is for all --
- 22 BOARD MEMBER CAHN: Is that what you're
- 23 trying to say?
- MR. TILLMAN: I have a suggested
- 25 correction. I would say, "For all cases, potential

- 1 damages, " not, "all cases for potential damages." That for
- 2 potential damages throws me off.
- BOARD MEMBER CAHN: Of, I had, "for all
- 4 cases of."
- 5 MR. TILLMAN: Okay. I misheard you.
- 6 CHAIRPERSON BEDESSEM: "For all cases of
- 7 potential damages, the probability distributions should be
- 8 identified for 50 percent, 95 percent, and 99 percent
- 9 probabilities of occurrence."
- 10 MR. TILLMAN: That sounds --
- 11 CHAIRPERSON BEDESSEM: Everyone seems fine
- 12 with that.
- 13 BOARD MEMBER CAHN: Dave, does that give
- 14 you a better comfort feeling or not?
- 15 BOARD MEMBER APPLEGATE: Well, I -- I think
- 16 that's a -- a better rewrite of the sentence. I'm not sure
- 17 it addresses my conceptual concerns, but I don't think they
- 18 can be resolved today. I think you're going to have to run
- 19 a project through this to really understand. I just think
- 20 fundamentally what could happen is you go forward, you do
- 21 this very complex analysis, and you have a range of cost
- 22 assurance -- cost -- financial assurance, and some of those
- 23 numbers could make the project unfeasible. I mean, how
- 24 risk averse do you want to be? I mean, at some point
- 25 you're going to have some scenarios that you'll never do a

- 1 project because there's some hypothetical outcome that is
- 2 unaffordable. We can't get there today.
- 3 CHAIRPERSON BEDESSEM: Uh-huh. So proceed
- 4 on.
- 5 MR. TILLMAN: Okay. Lines 2261 through
- 6 2263 will also change for consistency in the statute and
- 7 the working group.
- 8 Lines 2265 through 2268 were changed per the EPA
- 9 crosswalk.
- 10 MS. THOMPSON: And on that particular
- 11 change, they wanted us to explain what we meant by a third
- 12 party, so we added the passage describing a third party.
- MR. TILLMAN: Lines 2281 through 2283 was
- 14 added for consistency with statute and the working group.
- 15 Lines 22 -- or excuse me, 2348 through 2354, we
- 16 added part in quotations to cover the cost of corrective
- 17 action as required by Section 8 injection well plugging as
- 18 required by Section 16, and so on. This is all added per
- 19 the EPA crosswalk. They wanted to make sure we delineated
- 20 exactly how that was spelled out.
- 21 Almost there. Line 22 -- excuse me, 2356 through
- 22 2364 were changed per the EPA crosswalk.
- MS. THOMPSON: Again, that one we were --
- 24 we were adding our cross-section references in instead of
- 25 just stating that you have to have your postinjection site

- 1 care and site disclosure plan. They wanted the specific
- 2 cross-references in there as well.
- 3 MR. TILLMAN: And lines 23 -- excuse me,
- 4 lines 2395 through 2396, we deleted the self-bonds shall be
- 5 permitted as a -- for post-closure. Again, that's a
- 6 deletion per the EPA crosswalk.
- 7 In line 2506 we corrected the cross-reference
- 8 there.
- 9 BOARD MEMBER CAHN: Can we go over 2452 to
- 10 2455?
- 11 MR. TILLMAN: Could you repeat that? You
- 12 broke up.
- 13 BOARD MEMBER CAHN: I had a question about
- 14 2452 to 2455. Is that EPA language or is that your
- 15 language?
- 16 MS. THOMPSON: One moment, Ms. Cahn. I'll
- 17 have to check that reference.
- 18 BOARD MEMBER CAHN: While Gina's checking
- 19 that, my concern is wording, "or presents a risk."
- 20 Everything presents a risk, so it's really how is that
- 21 defined and what is considered acceptable, because if it
- 22 presents an acceptable risk, depending on how that's
- 23 defined, then it should be okay. So I just -- the language
- 24 seemed -- you know, showing that the carbon dioxide
- 25 injected into the site will not present a risk to human

- 1 health, safety, the environment or drinking water supplies,
- 2 I think if we can -- I mean, everything presents -- so
- 3 you've got to have some threshold that's acceptable, or,
- 4 like Dave says, nothing ever go forward.
- 5 And so my question is how was risk defined and
- 6 how -- and what is acceptable?
- 7 MR. TILLMAN: I guess, Ms. Cahn, I'm not
- 8 sure how to address that, what risk is acceptable.
- 9 BOARD MEMBER APPLEGATE: I think the
- 10 language could just be modified. Well, first off, can
- 11 language be modified?
- MS. THOMPSON: I think it --
- MR. TILLMAN: That's ours.
- 14 CHAIRPERSON BEDESSEM: Yes, it can.
- 15 BOARD MEMBER APPLEGATE: So Lorie will
- 16 probably have a better recommendation than this, but I
- 17 would just say something "will not present" -- site --
- THE REPORTER: I'm sorry?
- 19 BOARD MEMBER CAHN: Dave, I'm having a hard
- 20 time hearing you.
- 21 BOARD MEMBER APPLEGATE: I'm not --
- 22 CHAIRPERSON BEDESSEM: Can you say --
- 23 BOARD MEMBER APPLEGATE: I'm just talking
- 24 to myself right now.
- 25 CHAIRPERSON BEDESSEM: Can you say

- 1 unacceptable risk?
- 2 BOARD MEMBER APPLEGATE: I would do "will
- 3 not harm." I will just say "would not present" --
- 4 BOARD MEMBER CAHN: Yeah, take out "or
- 5 present a risk" and put in "will not harm."
- 6 BOARD MEMBER APPLEGATE: You could say
- 7 "will not harm" or you can do it the other way and say
- 8 "will not present an unacceptable risk."
- 9 BOARD MEMBER CAHN: But then the question
- 10 is what's considered acceptable; an occurrence of one in a
- 11 million or one in 10,000 or one in 10 million. So maybe we
- 12 can just say "will not harm" --
- 13 CHAIRPERSON BEDESSEM: Harm human health,
- 14 safety --
- BOARD MEMBER CAHN: In place of "or present
- 16 a risk."
- 17 CHAIRPERSON BEDESSEM: I think preferable
- 18 will be "will not harm."
- BOARD MEMBER APPLEGATE: I agree.
- 20 CHAIRPERSON BEDESSEM: Because everything
- 21 poses a risk.
- MR. TILLMAN: Sure.
- 23 CHAIRPERSON BEDESSEM: So if we just delete
- 24 "present a risk" and add to -- say "will not harm human
- 25 health, safety, environment or drinking water supplies."

1	MR	TTT.T.MAN:	Т	think	that's	acceptable.
Τ	MIX .	TITILIMAN.		CIIIIIK	tilat i	acceptable.

- 2 CHAIRPERSON BEDESSEM: And, Dave, did you
- 3 have a question on the --
- 4 THE REPORTER: On the what?
- 5 BOARD MEMBER APPLEGATE: No.
- 6 CHAIRPERSON BEDESSEM: Let's move on.
- 7 MR. TILLMAN: Again, on line 2506, we
- 8 corrected cross-reference there.
- 9 BOARD MEMBER CAHN: Before we move on, how
- 10 did we decide? Are we going to delete the line -- the
- 11 words "present a risk"?
- 12 CHAIRPERSON BEDESSEM: Yes. It's going to
- 13 say, "...carbon dioxide injected into the geologic
- 14 sequestration site will not harm human health, safety, the
- 15 environment, or drinking water supplies."
- 16 BOARD MEMBER CAHN: Great. Thank you.
- 17 CHAIRPERSON BEDESSEM: Okay?
- BOARD MEMBER CAHN: Yep.
- 19 CHAIRPERSON BEDESSEM: Okay.
- MR. TILLMAN: Lines, finally, 2522 to 2536
- 21 were changed per EPA crosswalk.
- 22 MS. THOMPSON: So they wanted us to add in
- 23 the Land Quality Division because they regulate our
- 24 Class -- the Class III UIC wells, and they wanted us to
- 25 spell out -- or I believe we divided out that we were

1	notifying the drinking water program at Region 8, and also
2	the UIC program at Region 8, they have didn't want just one
3	Region 8 notification, they wanted to break those out.
4	CHAIRPERSON BEDESSEM: Okay.
5	MR. TILLMAN: Those are all the changes.
6	CHAIRPERSON BEDESSEM: Okay. So now this
7	comment period for this went through today's meeting?
8	MS. THOMPSON: Correct.
9	CHAIRPERSON BEDESSEM: Are there any
10	members of the audience that had any comment with regard to
11	this rule?
12	Hearing none, you did not receive any public
13	comments since the last meeting or prior?
14	MS. THOMPSON: That is correct, we did not
15	receive any written comments or notifications to our
16	office, no.
17	CHAIRPERSON BEDESSEM: Okay.

- 19 CHAIRPERSON BEDESSEM: Yes, Lorie.
- BOARD MEMBER CAHN: Excuse me.
- 21 CHAIRPERSON BEDESSEM: Uh-huh.
- 22 BOARD MEMBER CAHN: Can we talk about
- 23 Appendix A?
- 24 CHAIRPERSON BEDESSEM: Yes.
- 25 BOARD MEMBER CAHN: Okay. Some of the

- 1 things that we requested in the last meeting were not made.
- 2 Risk activity and CO2, the 2 needs to be a subscript, and
- 3 that's a global. On line 7.1, the word "contaminate"
- 4 should be contaminant. So EG concentration contaminant,
- 5 carbon diox -- CO subscript 2, it says.
- 6 CHAIRPERSON BEDESSEM: Uh-huh.
- 7 BOARD MEMBER CAHN: And then I still, with
- 8 this -- so let me --
- 9 CHAIRPERSON BEDESSEM: Can you repeat what
- 10 you just said?
- 11 BOARD MEMBER CAHN: On line 1.6, and this
- 12 is a number of things. See also contributing causes 3.1,
- 13 et cetera, does that mean and thus also contributing
- 14 causes?
- 15 (Telephone connection was lost.)
- 16 CHAIRPERSON BEDESSEM: Uh-oh.
- 17 BOARD MEMBER APPLEGATE: We were so close.
- 18 Let's see.
- 19 CHAIRPERSON BEDESSEM: I didn't understand
- 20 that last question.
- 21 Let's take a five-minute break until
- 22 we get back online
- 23 (Meeting proceedings recessed
- 24 11:14 a.m. to 11:32 a.m.)
- 25 CHAIRPERSON BEDESSEM: So let's reconvene

- 1 the meeting.
- 2 And, Lorie, if you will continue on with your
- 3 comments regarding Appendix A.
- 4 BOARD MEMBER CAHN: Yeah, Appendix A. So
- 5 can you hear me all right?
- 6 CHAIRPERSON BEDESSEM: You sound great.
- 7 BOARD MEMBER CAHN: Okay. Good.
- 8 Okay. So on line 1.6, it says, "See also
- 9 contributing causes..." And I guess I'm thinking does that
- 10 mean address also contributing causes? And so the same
- 11 thing occurs on line 2.6, same thing occurs -- well, then
- 12 in line 12, line 5.4 with an un -- unnumbered line, it
- 13 says, "Will also require..." And I think the line should
- 14 be part of -- should be new line 5.5. And then under --
- 15 the blank line with no number, it says, "Will also require
- 16 primary contributing causes..."
- 17 So I think what you mean -- they mean is also
- 18 addressed contributing causes, and maybe we could be -- if
- 19 that's what is meant, maybe we could be consistent on all
- 20 those lines.
- 21 MR. TILLMAN: Ms. Cahn, I believe that's
- 22 correct, where it says, "Also see contributing causes,"
- 23 those other things can also contribute to, for instance,
- 24 the mineral rights infringement things listed under there.
- 25 Also, those things in 3.1 through, you know, 3.2, 3.3, also

- 1 could contribute to mineral rights infringement. So I
- 2 guess whatever wording -- I didn't quite catch all the
- 3 wording change for line 1.6. How would you -- would you
- 4 suggest that line read or make that better understood?
- 5 BOARD MEMBER CAHN: I mean, maybe just say,
- 6 "Address also contributing causes 3.1," et cetera -- you
- 7 know, et cetera.
- MR. TILLMAN: That sounds fine.
- 9 BOARD MEMBER CAHN: Okay. And then 2.6,
- 10 change the same.
- MR. TILLMAN: Okay.
- 12 BOARD MEMBER CAHN: And then there's --
- 13 there's 5.5, and there is -- and it would also say address
- 14 also -- here it has primary contributing causes. So before
- 15 we didn't have primary.
- 16 BOARD MEMBER APPLEGATE: Go over to 5.4 and
- 17 look for the line right under 5.4.
- MR. TILLMAN: Yes.
- 19 BOARD MEMBER APPLEGATE: I think she's just
- 20 seeking consistency.
- 21 MR. TILLMAN: That's fine. We're not sure
- 22 where the primary part came from, so we can -- we can
- 23 delete that -- that word.
- 24 BOARD MEMBER CAHN: And that would now
- 25 become line 5.5?

- 1 MR. TILLMAN: Yes.
- 2 BOARD MEMBER CAHN: And same with a new
- 3 line 7.3?
- 4 MR. TILLMAN: Okay.
- 5 BOARD MEMBER CAHN: Okay. All right. And
- 6 then I -- did you catch -- was I cut off when I said line
- 7 1.1, carbon dioxide, the 2 should be subscript and
- 8 contaminate/contaminant, A-N-T?
- 9 CHAIRPERSON BEDESSEM: Uh-huh. They got
- 10 it.
- 11 BOARD MEMBER CAHN: Okay. Then also on --
- 12 and that's carbon dioxide, CO, the global -- all need to be
- 13 substituted.
- 14 And then on line 4, it says potential
- 15 asphyxiation, your word, ecological contaminant. So who or
- 16 what would have potential asphyxiation? Who are they --
- 17 what are they supposed to be addressing? Asphyxiation of
- 18 what or who?
- MR. TILLMAN: I believe that's people.
- 20 BOARD MEMBER APPLEGATE: Lorie, if you had
- 21 CO2 at the surface, I think they're indicating the two
- 22 types of risks you would have from a surface release.
- 23 Ecological damage due to low-level releases. CO2 is
- 24 heavier than air, so you have the potential for
- 25 asphyxiation if you were to have CO2 concentrate in a low-

- 1 lying area.
- 2 BOARD MEMBER CAHN: So that would be of --
- 3 CHAIRPERSON BEDESSEM: Animals.
- 4 BOARD MEMBER CAHN: -- and/or -- of human
- 5 and ecological receptors?
- 6 MR. TILLMAN: That could be people or
- 7 animals.
- BOARD MEMBER APPLEGATE: Yeah.
- 9 BOARD MEMBER CAHN: Okay. So why don't we
- 10 say in -- of human or ecological receptors so we know what
- 11 they're supposed to be addressing?
- MR. TILLMAN: That sounds fine.
- 13 BOARD MEMBER CAHN: Okay. Then on line
- 14 6.1, under "Induced seismicity," it says, "Pressure of
- 15 geochemistry..." I didn't understand that.
- 16 CHAIRPERSON BEDESSEM: I think it's
- 17 geochemistry induced, so there should a dash between
- 18 geochemistry and induced so you know --
- BOARD MEMBER CAHN: But what's the pressure
- 20 of chemistry? It's the "of," "the pressure of," I'm not --
- 21 I don't understand.
- 22 CHAIRPERSON BEDESSEM: It should say
- 23 "pressure from."
- MR. TILLMAN: That's --
- 25 CHAIRPERSON BEDESSEM: It should say, "from

- 1 geochemistry induced reactivation --
- THE REPORTER: I'm sorry. Can you repeat
- 3 that?
- 4 CHAIRPERSON BEDESSEM: "Pressure from
- 5 geochemistry-induced reactivation of historic fault..."
- 6 BOARD MEMBER CAHN: Okay. And then
- 7 geochemistry-induced?
- 8 MR. TILLMAN: Induced.
- 9 CHAIRPERSON BEDESSEM: Uh-huh.
- 10 BOARD MEMBER CAHN: Okay. That makes that
- 11 clear.
- 12 Okay. That's all I had on the --
- 13 MR. TILLMAN: That's the summary of the
- 14 changes, Madam Chair.
- 15 CHAIRPERSON BEDESSEM: Okay. Any other
- 16 comments from any board members or --
- 17 BOARD MEMBER APPLEGATE: I have none.
- 18 CHAIRPERSON BEDESSEM: Okay. And the
- 19 agency is requesting that we move this forward with the
- 20 understanding that there may be an additional revision,
- 21 just to make it consistent with what might be passed in the
- 22 next legislative session with respect to Section 3(c), I
- 23 believe?
- 24 MR. TILLMAN: Yes. And we're not sure
- 25 exactly when that timing would be, but we're anticipating

- 1 sometime next year.
- 2 CHAIRPERSON BEDESSEM: If this rule was
- 3 moved forward to the EQC now, that timing would allow you
- 4 to -- in other words, what's your -- what's your schedule,
- 5 meaning that doesn't have to go back to EPA for approval as
- 6 well?
- 7 MR. TILLMAN: I believe once the rule is
- 8 promulgated, it will go to the EPA for review again. So I
- 9 believe that the schedule as far as what I envision,
- 10 speaking off the top of my head, I think we may be able to
- 11 go to the EQC --
- MS. THOMPSON: January.
- 13 MR. TILLMAN: -- first quarter next year,
- 14 so if it -- presuming it passes there, then you've got 75
- 15 days, which is roughly about two and a half, three months,
- 16 so now you're into April, May.
- 17 CHAIRPERSON BEDESSEM: For a spring --
- MR. TILLMAN: Right.
- 19 CHAIRPERSON BEDESSEM: -- submission and
- 20 spring approval from EPA.
- MS. THOMPSON: Right.
- MR. TILLMAN: Yes.
- MS. THOMPSON: About the time we're sending
- 24 it for approval, then we'll receive our statutory language
- 25 to start crafting and come back to you.

- 1 CHAIRPERSON BEDESSEM: Uh-huh. Uh-huh. So
- 2 can I entertain a motion?
- BOARD MEMBER APPLEGATE: I -- for approval
- 4 of the -- I move that we approve the Chapter 24 revisions
- 5 for submittal to the EQC.
- 6 CHAIRPERSON BEDESSEM: I'll second. All
- 7 those in favor?
- BOARD MEMBER APPLEGATE: Aye.
- 9 CHAIRPERSON BEDESSEM: Aye.
- BOARD MEMBER CAHN: Aye.
- 11 CHAIRPERSON BEDESSEM: Okay. Motion
- 12 passes.
- MR. TILLMAN: Thank you.
- 14 BOARD MEMBER CAHN: Madam Chair, I have a
- 15 question. I didn't hear an introduction of who was here
- 16 from the board. Is it three of us?
- 17 CHAIRPERSON BEDESSEM: That is correct.
- 18 That is correct. Mr. Applegate, myself and you. We have a
- 19 quorum. Our members representing agriculture and local
- 20 governance were not able to attend today.
- BOARD MEMBER CAHN: Thank you.
- 22 CHAIRPERSON BEDESSEM: Uh-huh. Now, with
- 23 respect to the public notice, I believe next up, then,
- 24 would be the Solid Waste Division. So thank you very much
- 25 for presenting your packet today, in all its glorious

- 1 detail, and we look forward to seeing the finalized
- 2 version. Thank you.
- 3 MR. TILLMAN: Thank you for your patience.
- 4 BOARD MEMBER CAHN: Gina, do you prefer to
- 5 have me mail you the dozen editorials, or do you want to
- 6 just go over them with the phone separate from this
- 7 meeting?
- 8 MS. THOMPSON: I think perhaps mailing them
- 9 would be a little easier, and then that way I'm not
- 10 interrupting your work, so...
- BOARD MEMBER CAHN: Okay.
- 12 MS. THOMPSON: If you send me the package,
- 13 or I can send you prepaid envelope or -- we can get those
- 14 shipped down to Cheyenne.
- BOARD MEMBER CAHN: Yeah, I'll just go to
- 16 the post office. That's no problem. You'll get them
- 17 quickly.
- 18 MS. THOMPSON: And I can return them as
- 19 well.
- 20 CHAIRPERSON BEDESSEM: Okay. Sounds good,
- 21 thank you.
- Mr. Jennings, you're up.
- 23 (Meeting proceedings recessed
- 24 11:42 a.m. to 12:09 p.m.)
- 25 BOARD MEMBER CAHN: Madam Chair, is Bill

- 1 still there?
- 2 CHAIRPERSON BEDESSEM: Who are you asking
- 3 for, Lorie?
- 4 BOARD MEMBER CAHN: Bill Tillman, is he
- 5 still --
- 6 CHAIRPERSON BEDESSEM: Yes, Bill Tillman is
- 7 still in the room.
- 8 BOARD MEMBER CAHN: Maybe before a lunch
- 9 break we can get an update. I think he was in Buffalo
- 10 yesterday -- or the day before or for the --
- 11 THE REPORTER: I can't hear.
- BOARD MEMBER CAHN: Maybe he can just
- 13 update the board on where that's at.
- 14 CHAIRPERSON BEDESSEM: Can you speak slowly
- 15 and louder so that it can be transcribed.
- 16 BOARD MEMBER CAHN: Okay. I would see if
- 17 Mr. Tillman can give the board an update on what happened
- 18 on Chapter 25 in Buffalo yesterday -- or this week with the
- 19 EQC.
- 20 CHAIRPERSON BEDESSEM: Ms. Cahn is
- 21 requesting an update on what happened on Chapter 25 with
- 22 the EQC.
- BOARD MEMBER CAHN: Chapter 25.
- 24 CHAIRPERSON BEDESSEM: Can we allow that
- 25 for five minutes so that Water Quality is done and then we

- 1 can move on to the VRP?
- So, Bill, you just provide -- take a couple
- 3 minutes to provide that.
- 4 MR. TILLMAN: Madam Chair, I believe
- 5 Director Parfitt was at the EQC meeting -- hearing on
- 6 Wednesday. And what we offered -- or what we submitted was
- 7 a letter to rescind the current package, being it was
- 8 tabled at the past EQC hearing. Basically, we pulled the
- 9 package back.
- 10 Our intentions -- basically, we've updated
- 11 them with some changes where we're considering changes
- 12 to the dimensions of the tanks. There was some changes
- 13 to -- possibly to the permitting of the greywater and
- 14 privies, as well as simplification of the greywater
- 15 section. Those were things that we're investigating right
- 16 now.
- 17 CHAIRPERSON BEDESSEM: I believe -- I
- 18 thought I heard something about potentially conducting a
- 19 survey to get some additional information.
- 20 MR. TILLMAN: Yes. Yes. With the tanks,
- 21 like I say, we don't anticipate anybody -- any hardships,
- 22 but we're going to offer a survey, go out and basically
- 23 talk to all the tank manufacturers that we have in our
- 24 database, basically, and ensure they don't have any issues
- 25 with the new regulations.

- 1 CHAIRPERSON BEDESSEM: Uh-huh.
- 2 MR. TILLMAN: And go forward from there,
- 3 but we plan to present the rule again to the EQC in January
- 4 with these modifications, and we don't anticipate any
- 5 issues.
- 6 CHAIRPERSON BEDESSEM: I believe that it
- 7 may come before this Advisory Board again.
- 8 MR. TILLMAN: I'm not sure. From what --
- 9 from what we understand, being that we will present to the
- 10 EQC again, I believe, at least from our Attorney General,
- 11 that we can go basically to public notice and go forward,
- 12 because we're not substantially changing the content of
- 13 what was presented before.
- 14 CHAIRPERSON BEDESSEM: I guess -- I
- 15 guess it depends on the results of your survey and your
- 16 changes if -- if you are changing it -- if there are
- 17 substantive changes, it will come back through that advice
- 18 by board.
- MR. TILLMAN: If they're substantive, yes.
- 20 CHAIRPERSON BEDESSEM: So I'm not to make
- 21 the assumption there are no substantive changes. So based
- 22 on what comes out of -- out of your re-look at the chapter,
- 23 then we will either see a public notice to the EQC or it
- 24 will come back to the Advisory Board.
- MR. TILLMAN: Correct, Madam Chair.

1	CHAIRPERSON BEDESSEM: Okay. Thank you.
2	Lorie, did you have any additional questions?
3	BOARD MEMBER CAHN: Not at this time. I
4	did I am kind of curious about the categorical UAA, that
5	seems to be getting a lot of press right now. Somebody at
6	DEQ could talk to that, because I know there's a hearing in
7	front of the EPA next week on that in Casper. Anybody
8	there that can
9	CHAIRPERSON BEDESSEM: I don't think
10	there's anybody present from WQD at this time that can talk
11	with respect to that.
12	Gina?
13	MS. THOMPSON: I guess I would recommend
14	contacting Administrator Frederick next week, when he's
15	back in the office, because I would say either he or
16	Mr. Waterstreet from the watershed program would be the
17	best spokespeople for that matter, since they're actively
18	working on it. And we have not been involved in that at
19	all, but, you know, Mr. Frederick is very reachable by
20	phone or email.
21	CHAIRPERSON BEDESSEM: Uh-huh. Uh-huh.
22	Okay. Thank you.
23	(Meeting proceedings concluded
24	12:14 p.m., September 11, 2015.)
25	

1	CERTIFICATE
2	
3	I, KATHY J. KENDRICK, a Registered Professional
4	Reporter, do hereby certify that I reported by machine
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