

1
2
3 **ADVISORY**
4 **COUNCIL ON**
5 **RADIATION**
6 **PROTECTION**
7
8
9
10
11
12

13 Bureau of Radiation Control
14 Hilton Garden Inn Tampa Airport Westshore
15 Tampa, Florida
16
17

18
19 Tuesday, May 24, 2016

20 10 a.m. - 3:03 p.m.
21

22
23 Reported by

24 Rita G. Meyer, RDR, CRR, CBC, CCP
25 Realtime Reporter and Notary Public
State of Florida at Large

1 ADVISORY COUNCIL MEMBERS PRESENT:

2 Randy Schenkman, M.D., Chairman

3 Mark S. Seddon, Vice-Chairman, MP, DABR, DABMP

4 Armand Cognetta, M.D.

5 Patricia M. Dycus, BS, RRA(R) (M), RDMS

6 Kathleen Drotar, M.Ed., RT. (R) (N) (T)

7 Chantel Corbett, AS, CNMT, RT(N), RSO

8 Efstratios D. Lagoutaris, D.P.M.

9 Rebecca Coffey McFadden, RT(R)

10 Brian Kent Birky, Ph.D.

11 Mary Bridget Hart, M.D., ABIM, ABNM

12 Paul Burress, CHP

13 William W. Atherton, DC, DACBR, CCSP

14 Stacy Lowe, MsEd. RT(R) (MR)

15 Matthew Walser, PA-C, ATC

16 Albert Tineo, CNMT

17

DEPARTMENT OF HEALTH STAFF

18

James Futch, Bureau of Radiation Control

19

Brenda Andrews, Business Consultant,
Bureau of Radiation Control

20

21 Allison Dudley, Bureau of Radiation Control

22 Kelly Nesmith, CEU Coordinator

23

24

25

A G E N D A

	PAGE
1	
2	
3	Approval of Minutes6
4	MQA Update6
5	Questions and Answers30
6	Security Scanners55
7	MRI Physics/Safety Issues79
8	Administrative Items:
9	Review of Bylaws137
10	Voting of New Chairperson and Vice Chairperson139
11	goTravel Demo144
12	Old Business158
13	Next Meeting Date and Location158
14	Certificate of Reporter164
15	Word Index
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

1 RANDY SCHENKMAN, CHAIRPERSON: If everybody is
2 ready, we're going to get our meeting started.

3 Welcome, everybody. So this is the Advisory
4 Council on Radiation Protection for the State of
5 Florida and what we always do is start with
6 introductions, so --

7 PATRICIA DYCUS: I get to go first?

8 RANDY SCHENKMAN, CHAIRPERSON: You get to go
9 first, Pat.

10 PATRICIA DYCUS: Patty Dycus. I'm a registered
11 radiologist assistant and I work in Orlando.

12 MATTHEW WALSER: Matt Walser. I'm a physician
13 assistant. I work in orthopedics at the University
14 of Florida.

15 ALBERTO TINEO: Alberto Tineo, Daytona Beach,
16 Halifax Health.

17 STACY LOWE: Stacy Lowe. Chief program
18 Director with Keiser University Tampa Campus.

19 KATHY DROTAR: I'm Kathy Drotar. I'm a
20 radiologic technologist-therapy member and I am
21 university department chair for Sarasota Campus,
22 Keiser University.

23 WILLIAM ATHERTON: Bill Atherton. I'm a
24 chiropractic radiologist based in Miami.

25 BRIAN BIRKY: I'm Brian Birky. I'm Executive

1 Director of the Florida Industrial and Phosphate
2 Research Institute and Florida Polytechnic
3 University.

4 ALLISON DUDLEY: I'm Allison Dudley. I'm the
5 executive director over the processing unit at the
6 Department of Health that processes the
7 applications.

8 BRENDA ANDREWS: I'm Brenda Andrews, the
9 business consultant for the Bureau of Radiation
10 Control.

11 JAMES FUTCH: James Futch, health physicist,
12 Bureau of Radiation Control.

13 RANDY SCHENKMAN, CHAIRPERSON: Randy Schenkman,
14 radiologist.

15 KELLY NESMITH: Kelly Nesmith, Department of
16 Health, CEU Coordinator.

17 REBECCA McFADDEN: I'm Becky McFadden. I'm a
18 radiologic technologist at Munroe Regional Medical
19 Center in Ocala.

20 EFSTRATIOS LAGOUTARIS: Efstratios Lagoutaris,
21 private practice podiatrist in Jacksonville,
22 Florida.

23 MARY HART: Mary Hart. I'm a nuclear medicine
24 physician. The chief at Bay Pines VA Medical
25 Center.

1 CHANTEL CORBETT: Chantel Corbett. Nuclear
2 medicine technologist, Fusion Physics, based out of
3 Tampa.

4 PAUL BURRESS: And Paul Burress with Florida
5 State University.

6 RANDY SCHENKMAN, CHAIRPERSON: Okay. So now
7 that everybody knows who everybody is, can we have a
8 motion to approve the October 6th minutes?

9 KATHY DROTAR: Make a motion to accept.

10 RANDY SCHENKMAN, CHAIRPERSON: Kathy. Do we
11 have a second?

12 MARY HART: I'll second.

13 RANDY SCHENKMAN, CHAIRPERSON: Okay. Everybody
14 in favor of approving, say aye.

15 ALLISON DUDLEY: Aye.

16 RANDY SCHENKMAN, CHAIRPERSON: Anybody opposed?

17 (No Response)

18 RANDY SCHENKMAN, CHAIRPERSON: Okay. So we're
19 approved.

20 Next is going to be Allison Dudley, who going
21 to give us an MQA update.

22 ALLISON DUDLEY: Good morning, everyone. I'm
23 going to start with the applications. I went ahead
24 and ran our reports from January 1 until today and
25 it looks like we issued 428 licenses for radiologic

1 technologists and two for radiologist assistants.

2 The average day that we are processing the
3 applications is nine days. So a little bit of
4 background. Statutorily, we're required to review
5 an application within thirty days and either approve
6 it or send in a deficiency letter, so that process
7 for us is happening within nine days.

8 I know many of you have heard Gail Curry has
9 accepted a promotion, which is great for her; sad
10 for us. So we're kind of through the hump now. We
11 have hired somebody for that position. His name is
12 William Massey. He just started on Friday, last
13 week. He goes by Sean, but his e-mail will be
14 William.Massey@flhealth.gov. And so we're looking
15 forward to him learning the ropes and he will be at
16 the next meeting as Gail's replacement.

17 Gail still works for Medical Quality Assurance,
18 so that's the good news. So she is a valuable
19 resource that we will use her to help assist
20 training Sean Massey.

21 A little bit with the changes going forward.
22 I'm not sure if this was reported at the last
23 meeting, so I'm sorry if I'm repeating this, but we
24 have -- based upon legal advice, we are no longer
25 issuing special licenses for magnetic resonance

1 imaging, so everybody is aware of that. That
2 actually went through a lot more seamlessly than we
3 thought it would. We have not got -- I think we've
4 resolved those issues. We've given refunds to
5 everybody that's applied and now the word is out
6 that we're not getting very many of those
7 applications now. So I think the word is out there
8 and everybody is aware that you cannot get this
9 special license anymore.

10 Finally, I have put everybody, just a little
11 bit of a information about MQA online and even for
12 anybody that has another health care license within
13 the Department of Health, this will affect you in
14 the future. Every profession is being rolled out to
15 a new online portal system for applications.
16 Radiologic technologists went live in April with
17 this system. And, you know, we're still working --
18 we're having many meetings. When you go live with
19 something, you find out something's not working.

20 One of our problems was, I think we've had some
21 duplicate applications and we fixed all -- we're
22 fixing that right now. I don't know that I've had a
23 lot of problems with radiologic technologists with
24 that, but I'm keeping an eye on that. If anybody's
25 using it; you have issues, let us know.

1 But once we work through some of these little
2 kinks, it's going to be a much more valuable system
3 to us because some of the things that licensees can
4 do on their own is highlighted in this gray box.
5 And one of the great things is that people can
6 upload documents on their own application. So we
7 want to reduce mail. And when you upload a
8 document, then that's something we can take and put
9 into your licensure file without ever having to
10 print it. So -- and we can review it quicker.

11 So this is something that we've all been
12 excited about at the department that should reduce
13 licensure processing times in the future. So more
14 to come on that.

15 And each -- for anybody that has a health care
16 license, I know that it will be rolled out in
17 different phases for different professions, but we
18 were lucky enough to be one of the earlier
19 professions and I think it's going pretty well right
20 now.

21 All right. Does anybody have any questions for
22 me? That was pretty much all I wanted to talk
23 about. James?

24 JAMES FUTCH: No. Great news to hear that you
25 got somebody to take over Gail's spot. I heard a

1 little bit about Sean's history. He was call
2 center person?

3 ALLISON DUDLEY: Yeah. The good thing about
4 Sean is -- Gail's a supervisor that, she manages the
5 team of, gosh, four processors, I believe. And
6 actually, four processors and two, what we call
7 Regular Specialists II, so they're a little more --
8 they have a little bit more responsibility. So six
9 processors.

10 (Armand Cогnetta Enters the Meeting)

11 ALLISON DUDLEY: So we were looking for
12 somebody with some great management experience.
13 Sean has a military background, so he has some great
14 leadership experience in the military.

15 Plus, he's actually worked for medical quality
16 assurance. He started in the call center; worked
17 his way into the enforcement section and for us,
18 that's golden because learning our -- already
19 knowing our computer systems and knowing how to --
20 so to have somebody sit down that already knows our
21 laws and can work in the computer very quickly, and
22 with his management experience, we're really
23 excited. I think everybody will be very impressed
24 with him.

25 KATHY DROTAR: Quick question. I stumbled on

1 the webinars that you have for the online portal
2 services --

3 ALLISON DUDLEY: Yep.

4 KATHY DROTAR: -- and thought that was very
5 informative.

6 ALLISON DUDLEY: Okay.

7 KATHY DROTAR: But how are technologists going
8 to be notified that this is what is going to happen
9 or that, you know, program directors so that the
10 students -- their students can apply online?

11 ALLISON DUDLEY: It should -- well, they
12 should -- when you go to the website to apply
13 online, it's going to put you through this. So it's
14 not going to be that they really have an option,
15 unless they somehow want to print up the paper
16 application. We're still accepting paper
17 applications. We would prefer people not do the
18 paper application, but when they go online, they
19 could go an ahead and do this.

20 KATHY DROTAR: They've been doing it online. I
21 just wondered if that was a seamless operation.

22 ALLISON DUDLEY: It's seamless. It
23 shouldn't --

24 KATHY DROTAR: If I hadn't been looking for
25 information for my graduates, I don't know that I

1 would've stumbled on the webinar stuff. People that
2 are licensed, are they going to be informed if this
3 is --

4 KELLY NESMITH: It doesn't have anything to do
5 -- I registered for it.

6 JAMES FUTCH: Do you know about it? Did you
7 register for it?

8 KELLY NESMITH: I did it on the 26th of April,
9 the first day it rolled out.

10 KATHY DROTAR: The webinar?

11 KELLY NESMITH: No, no. I went in and
12 registered myself on the portal. You have to
13 actually tell the portal what type of professional
14 you are. It doesn't tie that directly to you. You
15 have to pick that and once I registered, it was
16 really easy.

17 KATHY DROTAR: But everybody is used to getting
18 something in the mail and this is how I renew my
19 license. And now if it's online, are our
20 technologists going to be made aware that that's
21 there?

22 ALLISON DUDLEY: It will be information when
23 you renew.

24 RANDY SCHENKMAN, CHAIRPERSON: The postcard
25 said it's time for you to renew.

1 ALLISON DUDLEY: Yes. Everybody is still
2 getting that.

3 RANDY SCHENKMAN, CHAIRPERSON: This is how
4 everybody is doing it. It has to be renewed online.

5 KATHY DROTAR: From what I heard from the
6 webinar, you have to go in and re-register because
7 that -- we weren't doing things online, but that is
8 no longer -- you can't use that password. You have
9 to go on and re-register yourself.

10 ALLISON DUDLEY: There will be information on
11 the renewal card.

12 KATHY DROTAR: On the renewal card. So a card
13 will be going out?

14 ALLISON DUDLEY: Cards always go out, yes.

15 KATHY DROTAR: I just want to make sure.

16 JAMES FUTCH: Who's actually -- Stacy, Becky,
17 have you tried the new system?

18 STACY LOWE: I have. I sent my graduates
19 through it. They just went through. It was fine.
20 Oh, this is brand new? Okay.

21 ALLISON DUDLEY: It worked fine?

22 STACY LOWE: It worked fine.

23 REBECCA McFADDEN: I haven't, myself, and I
24 know we just had our graduates go through
25 registering and getting their, you know, doing their

1 temporary.

2 JAMES FUTCH: Temporary.

3 KATHY DROTAR: I had -- yeah, you know, and as
4 the department chair, I've had information from my
5 other program directors, and several of us, as we
6 discussed earlier, had problems getting -- the
7 graduates had to problems with getting their
8 temporary license.

9 ALLISON DUDLEY: Right.

10 KATHY DROTAR: Thank you, Kelly.

11 KELLY NESMITH: Every one of them had one, but
12 the one individual, he didn't apply for a temporary.

13 KATHY DROTAR: Yes, he did. They all did.

14 KELLY NESMITH: Okay.

15 KATHY DROTAR: They all do it at the same time
16 under me watching them.

17 STACY LOWE: We watch them.

18 KATHY DROTAR: They are right there doing it.

19 JAMES FUTCH: The good news is you have a new
20 person to go to.

21 KELLY NESMITH: Well, I'm always still
22 available.

23 KATHY DROTAR: Thank you.

24 JAMES FUTCH: I think the other
25 question, my understanding was, correct me if this

1 has changed, the people who had accounts, who have
2 been renewing for years, they were going to get
3 information. And I think they had to create a new
4 account because they didn't automatically change
5 over.

6 ALLISON DUDLEY: No, right, right.

7 JAMES FUTCH: So you had to create a new
8 account and then go back and grab your old license
9 information and make the connection, yourself. I
10 think that was the one step that was the moderately
11 tricky part that she had them do.

12 KELLY NESMITH: It wasn't really tricky.

13 JAMES FUTCH: It was not bad?

14 KELLY NESMITH: It took me five minutes.
15 Probably the most confusing thing was I was doing
16 it -- I don't renew until October, so I was doing it
17 ahead of time in April. So that last screen, there
18 wasn't anything for me to do. I didn't need to
19 update my address, I didn't need to renew my
20 license, and I went back and forth with that one for
21 a minute.

22 KATHY DROTAR: So you can do it at any time?

23 KELLY NESMITH: You can. You can register in
24 the system --

25 KATHY DROTAR: Okay, thank you.

1 KELLY NESMITH: -- any time.

2 KATHY DROTAR: We'll get that information.

3 RANDY SCHENKMAN, CHAIRPERSON: Anybody else
4 have any questions?

5 ALLISON DUDLEY: And there is information, I
6 believe, on here about the webinar.

7 KATHY DROTAR: Mm-hmm.

8 ALLISON DUDLEY: Yeah. If you go to the
9 bottom, if everybody is interested, and you want to
10 hand it out to anybody, feel free to make copies.
11 At the bottom it says, learn from an expert.
12 They'll walk you through the process.

13 KATHY DROTAR: I think something that was nice
14 about the webinars was that they offered to do, if
15 you had a group of people, they would do one and
16 schedule one. We just sat through it.

17 ALLISON DUDLEY: Mm-hmm.

18 JAMES FUTCH: One more thing. One of the last
19 conversations I had with Gail was when this came
20 out, I think she got a request from whichever party
21 or organization does the application to societies.

22 ALLISON DUDLEY: Mm-hmm.

23 JAMES FUTCH: I think they sent something to
24 FSRT and FNMT. Did you see anything come through?

25 KELLY NESMITH: And to the ASRT.

1 JAMES FUTCH: Anybody see anything come
2 through? Did the societies mention anything?

3 CHANTEL CORBETT: Not especially. No. I'm the
4 president. I should have seen it.

5 KELLY NESMITH: Well, that's the information I
6 provided.

7 CHANTEL CORBETT: Just saying that this was
8 coming up.

9 KATHY DROTAR: So I can mention about it.

10 JAMES FUTCH: Anybody who has you know, any
11 influence --

12 ALLISON DUDLEY: Okay. That would be great.

13 CHANTEL CORBETT: I'll ask him.

14 JAMES FUTCH: We can send it again if we need
15 to.

16 CHANTEL CORBETT: We've got the e-mail
17 addresses for most people now as they register for
18 FNMT. So we can do a mass e-mail and let them know.

19 JAMES FUTCH: Have you gone through the first
20 online renewal?

21 CHANTEL CORBETT: I have not yet.

22 JAMES FUTCH: It's since April, I guess.

23 ALLISON DUDLEY: April is when we went live.
24 April 12th.

25 CHANTEL CORBETT: Yeah.

1 JAMES FUTCH: The other thing I heard that was
2 great about it, which you can actually upload a
3 document.

4 ALLISON DUDLEY: Right.

5 CHANTEL CORBETT: Right.

6 JAMES FUTCH: Sending a fax or snail mail will
7 eventually get matched back up with your account in
8 Tallahassee.

9 ALLISON DUDLEY: Well, that's where we get
10 delayed in processing times is because people send a
11 fax and they think, well, maybe I'll e-mail it, too.
12 Well, every time you send us two documents, that
13 means -- the processors can't memorize somebody's
14 name, so they're not going to say, oh, I just got
15 this person's fax. Now they have to open up the
16 application, and oh, no, it's a duplicate. And
17 then, you know, so that always takes time. So
18 uploading documents and people utilizing that
19 feature will be great.

20 JAMES FUTCH: And one more thing I wanted to
21 mention. You have in your packets, something that
22 looks like this (indicating). And this was
23 something that the department produced general
24 information with lots and lots of numbers. I think
25 the statisticians went overboard. This is chock

1 full of numbers. One page of this does pertain to
2 MQA. It's got a page on your -- percentage of time
3 reduced to, I think, renewals or something.

4 So a little bit of something for everyone in
5 the Department of Health.

6 MARY HART: What page?

7 CHANTEL CORBETT: Ten.

8 MARY HART: Ten?

9 CHANTEL CORBETT: Yeah. Do you know how long
10 the webinar is?

11 KATHY DROTAR: It was a half an hour. And they
12 allowed about ten to fifteen minutes for questions
13 that you could type in.

14 CHANTEL CORBETT: Okay. All right. I was just
15 thinking we might be able to figure out how to work
16 that into the meeting, actually.

17 KATHY DROTAR: I think there's another one in
18 June that's scheduled.

19 ALLISON DUDLEY: Right. They are scheduled.

20 KATHY DROTAR: But then, they'll do one,
21 arrange with the group --

22 CHANTEL CORBETT: Arrange with the group.

23 KATHY DROTAR: -- which I thought was really
24 nice.

25 RANDY SCHENKMAN, CHAIRPERSON: Next, what we

1 would like to do is talk a little bit about Paul.

2 (Laughter)

3 PAUL BURRESS: Should I leave?

4 RANDY SCHENKMAN, CHAIRPERSON: No, you
5 definitely should stay. But Paul is leaving, so we
6 wanted --

7 JAMES FUTCH: Basically --

8 RANDY SCHENKMAN, CHAIRPERSON: James wanted to
9 talk a little bit and then we have something we
10 wanted to give you.

11 JAMES FUTCH: We have had a lot of council
12 members over the years. You can go to the website
13 and see every single person who's ever served on the
14 Council. I took over the Council -- it was created
15 in 1978, I think was the initiation. And it's part
16 of Florida Statute 468. It started with fewer
17 members than we have today and it's expanded over
18 time and a couple of additional positions they added
19 over time were certified health physicist,
20 environmental expert; some of the non-medical folks
21 on the Council.

22 And I started with the Department in '88 and
23 went to a few meetings. It wasn't in my purview in
24 the very beginning. And in '98, I took it over and
25 I ran it until 2005, when we had the internal merger

1 with MQA. So I've seen a lot of council folks over
2 the years and every single one of you have helped me
3 out tremendously and your predecessors as well.

4 This is such an important part of what we do
5 for the Department, especially for the Bureau of
6 Radiation Control because, you know, we have staff
7 inside the Bureau who come from various and sundry
8 walks of life, but people view us as the government,
9 right, so even if we say something, it doesn't
10 necessarily mean that it's right or people will
11 listen to us, at least fifty percent of the time or,
12 so, we need a little correction to a direction
13 something is going in. So we really heavily count
14 on the guidance from all of your personal
15 experiences, your professional experiences, the
16 professional associations that you come from and
17 represent.

18 And I thought back over the years, we haven't
19 been able to do this very often, but Paul is
20 actually moving on -- physically moving from the
21 State of Florida. You can say more about -- all the
22 details that you want to talk about, but we wanted
23 to just take a moment and say thank you.

24 PAUL BURRESS: Thank you. It's been a
25 pleasure.

1 JAMES FUTCH: I've had lots of conversations
2 with Paul over the years. Health physicist
3 meetings. He happens to be located in the city of
4 Tallahassee so a few folks end up being really,
5 really go-to Council members because they are right
6 here or various reasons. So Paul's actually seen
7 the, one of the newer areas that's kind of dear in
8 my heart, the whole law enforcement, the big
9 detectors flying in the sky. I don't know if you've
10 actually -- have we ever actually gone up in the
11 air? It's probably a good thing, actually.

12 PAUL BURRESS: No. All ground stuff for me.

13 JAMES FUTCH: So I just wanted to take a moment
14 to say thank you. And I don't know if anybody else
15 wanted to say anything. We have a little something
16 to give him in just a second. But I open up the
17 floor in case -- do you want to say anything?

18 PAUL BURRESS: It's been a pleasure. And ten
19 years go by fast. I guess that's twenty meetings
20 and it doesn't seem like it's been that many. Going
21 through my drawers getting ready to move, though,
22 there were a lot of notes in there.

23 I really appreciate this packet, Brenda, so
24 thank you for that.

25 BRENDA ANDREWS: You're welcome.

1 PAUL BURRESS: But I remember sitting at lunch
2 with Dr. Schenkman and Bill Atherton, I think,
3 started when I did, same meeting. We were a bit
4 behind, so there was a lot to talk about and I
5 remember --

6 WILLIAM ATHERTON: It was a two-day meeting.

7 PAUL BURRESS: I remember thinking everybody
8 here is so much smarter than me. I'm not going to
9 last very long. I guess, thank cabinets (ph) for
10 ten years and thanks to all of you.

11 RANDY SCHENKMAN, CHAIRPERSON: Well, we just
12 really appreciate all that you've done for the
13 Board; all you've done with James and all you've
14 done for the State of Florida. So we would like to
15 present you with a plaque.

16 PAUL BURRESS: That's nice. Thank you.

17 RANDY SCHENKMAN, CHAIRPERSON: Thank you for
18 all that you've done for everyone.

19 (Applause)

20 PAUL BURRESS: I'll show my boss I really did
21 come.

22 JAMES FUTCH: Yeah, see, I wasn't just fooling
23 around in Tampa all the time.

24 WILLIAM ATHERTON: Where are you heading, Paul?

25 PAUL BURRESS: I'm heading to Tennessee. My

1 wife got a promotion. She works in health care, so
2 she makes a lot more money than me. The VA was nice
3 enough to hire me on, so I'll be working for the
4 Veterans Administration in their Vanderbilt campus.

5 MARY HART: Good. That will be great.

6 PAUL BURRESS: So it will be fun.

7 RANDY SCHENKMAN, CHAIRPERSON: Best of luck.

8 PAUL BURRESS: Thank you.

9 RANDY SCHENKMAN, CHAIRPERSON: Anybody else
10 have anything at this point to say?

11 Okay. So next we're going to go to Chantel.

12 CHANTEL CORBETT: I just contacted the NMTCB to
13 see what the status was on the CT standards and how
14 they're operating and trying to figure out a way
15 around getting either an agreement with the ASRT to
16 use their standard, or to go ahead and move forward
17 with adding the NMTCB into the ASRT standards.
18 Their legal counsel says it's going to be a year or
19 less before the ASRT standards are revised, so it's
20 probably in their benefit to just wait to do that.

21 So they have updated us with, hopefully by the
22 end of next year, that it is on their agenda to add
23 the NMTCB credential to the ASRT standard. The
24 Joint Commissions recently approved their new
25 standards, which do include the NMTCB CT credential

1 in their requirements.

2 They have created a -- this is their petition
3 here, so I'll leave it if anybody wants to look over
4 it later. But basically, they are going to wait at
5 this point. So it's going to be probably the end of
6 next year before that credential is included.

7 JAMES FUTCH: And if you remember the back
8 story to this, NMTCB created a CT registry. A
9 couple classes have graduated now and we have a CT
10 license that we issue for Florida by endorsement
11 from the National Registry, but it's ASRT's CT
12 credential that's essentially in there and our
13 practice standards for Florida CT is the practice
14 standard that Chantel was just talking about, which
15 is the ASRT CT practice standards.

16 In the previous Council meeting or two ago, we
17 talked about this. We had the presentation from, I
18 don't remember his name.

19 CHANTEL CORBETT: Cybil.

20 JAMES FUTCH: Cybil, yes, exactly, and she went
21 into all the details. And I think this was the
22 biggest issue that the Council had and that the rule
23 would have too in order to adopt it. It would be
24 most wonderful if the two can work it out and we
25 actually get the NMTCB CT credential into the

1 practice standards so we can go through the process
2 and readopt those and formally recognize that also,
3 which is what the Council is looking for.

4 So we're making progress. Chantel's been a
5 great help.

6 CHANTEL CORBETT: We get e-mails on a weekly
7 basis from either people moving into Florida or
8 people who have graduated who have been told
9 incorrectly by their instructors, classmates, you
10 know, co-workers, whatever it may be, you know, that
11 they get the CT exam done and take all the time to
12 do that and then they can't get a license that they
13 expected.

14 We have had one person e-mail, two weeks ago,
15 through S&M, that actually was hired on for a
16 hospital here in Florida to do CT, and they did not
17 have AART, and so, for some reason, the hospital
18 wasn't aware that they required the CT license to do
19 that. So there was a little confusion there. But
20 we -- they got a second job, and they're kind of
21 holding their position. They are letting them do
22 part time nuke med until hopefully this gets moved
23 forward next year.

24 JAMES FUTCH: We very much appreciate you
25 letting us know and keeping that information fresh.

1 CHANTEL CORBETT: No problem.

2 JAMES FUTCH: The conversation I had with Katy
3 was very productive and just let us know.

4 CHANTEL CORBETT: Yep. I'll let you know as
5 soon as I know.

6 RANDY SCHENKMAN, CHAIRPERSON: Hopefully we'll
7 take care of it one of these days.

8 CHANTEL CORBETT: Yeah. It will get there.

9 KATHY DROTAR: What I heard from ASRT was that
10 if that goes to the Board this year, then it would
11 go to the 2017 House of Delegates for a vote.

12 CHANTEL CORBETT: Right. That's why they are
13 expecting it by the end of next year. Yep.

14 JAMES FUTCH: All right. Any questions;
15 thoughts?

16 RANDY SCHENKMAN, CHAIRPERSON: Okay. Next,
17 we'd like to introduce Stacy Lowe. James has a few
18 comments and I know Kathy probably does, too.

19 JAMES FUTCH: Following a little bit of what
20 Allison had mentioned about a repeal of the MR
21 license, give you a thumbnail sketch in Florida. If
22 you don't remember, we had the law changed in 2012
23 that gave us the authority to establish the
24 specialty techs. At that time, we established, or
25 in 2013, we established CT, mammo and MR. And

1 shortly thereafter, PET. And then some time last
2 year, the lawyers took a look at it and decided we
3 didn't have the authority to issue the license for
4 MR.

5 But along that line -- and we just finished
6 reviewing this, as Allison mentioned. So I went and
7 looked at the statute. I'm trying to pull it up
8 here for a second. Let's see here. Give me just a
9 second. Let's see if that works.

10 Yes. Florida Statutes. Still 2015, I guess.
11 It isn't quite the new ones have been adopted.

12 ALLISON DUDLEY: Not out yet.

13 JAMES FUTCH: Not yet. So if we go down to --
14 this is actually the section on the Advisory
15 Council. And these were all the duties and this
16 describes the make-up of the Council. And one of
17 the thing, we go way down to the bottom, get past
18 the make-up of the Council, you get to what the
19 Council does. Right here, if you can see that.

20 The Council may recommend to the Department
21 examination procedures for applicants and
22 requirements for qualifications. Council shall, all
23 these things.

24 And then we come down to the one on the bottom.
25 Number four, study of the utilization of mechanical

1 imaging and non-ionizing radiation such as nuclear
2 magnetic resonance or similar related technology and
3 make recommendations to the Department on the
4 personnel appropriate to conduct such procedures and
5 minimum qualifications for such personnel.

6 So in a rather convoluted way, this particular
7 statute was written, this is the statute that does
8 not give us the authority to actually certify people
9 to operate NMR which, of course, is the proper name
10 for what we call MRI. It does, in fact, give us the
11 authority to study and make recommendations on it
12 from this Council. Okay. Put that in your thinking
13 cap and cogitate on that one for a while.

14 But given this, and given the fact that I think
15 a lot of folks felt the MR certification was the
16 right thing and important thing to do for various
17 reasons, we thought that we should move forward at
18 this particular Council meeting, actually talk about
19 MR and what it is and what it entails, and perhaps
20 even make some recommendations to the Department on
21 the personnel appropriate to conduct such procedures
22 and such things as that.

23 So along those lines, you'll notice the agenda
24 says Mark Seddon. Mark has been held up and he is
25 on his way here. He's going to actually give us a

1 little bit of the medical physicists side of what MR
2 is and what the hazards are and so forth and so on.

3 And the flip side of that is Stacy was going to
4 be here this afternoon and help us understand a
5 little bit about the practice side of it because
6 Stacy, in her role -- well, she has several roles.
7 I'll let her introduce herself. But she's the
8 Keiser Tampa Campus Radiography Program Director and
9 also happens to be a person who is MR licensed at
10 the ART.

11 STACY LOWE: Since inception.

12 JAMES FUTCH: Since inception. So I will toss
13 it over to poor Tracy and Tracy doesn't actually --
14 Stacy, I'm so sorry. I keep calling you Tracy.
15 Slap me.

16 STACY LOWE: They do it.

17 JAMES FUTCH: Stacy actually very, very kindly
18 agreed to be here. We kind of put her on the spot
19 at the very last minute. There's not, like, a
20 PowerPoint, but we do have someone who has a great
21 deal of knowledge and take it away, Stacy.

22 STACY LOWE: Hi. Thank you for inviting me to
23 be a guest here at the Board today.

24 A little bit about myself. I've been a
25 registered radiologic technologist since 1989

1 straight from high school. And went to tech school,
2 so I've been in the field for many, many years.

3 I took my first teaching position in 1997. So
4 I've been in all different positions with the RT
5 program. I've been an instructor, I've been
6 clinical director; clinical coordinator. And for
7 the last seven years, I've been the program director
8 here at Tampa Campus.

9 When I got my certification, it was in the
10 mid-90s. During that time, there wasn't any
11 requirement at all except for taking the Board.
12 Okay? So how I did that, I just went to a one-week
13 seminar in Winston Salem, and then I went -- I
14 studied a little bit and went and took my Board.

15 So as the years have progressed, our technology
16 has increased; our responsibilities have increased.
17 So now, you know, CT and MR are coming up the back
18 side because the requirements are going to be
19 structured educational requirements.

20 By 2018, if you want to sit for your MR/CT
21 board, you will have to complete structured
22 education from an accredited institution.
23 Currently, the structured education is through the
24 ASRT and it's sixteen hours of continuing education.
25 So right now, we're in the interim where folks

1 can -- there's not that much more requirement. They
2 still have to do competencies just like an RT would.
3 However, these structured components starts in 2018.

4 So as our profession has evolved, so have our
5 standards. We have full curriculums now. We have
6 Associate's degrees and BS degrees in magnetic
7 resonance imaging. So you can go get your degree,
8 you can get your ASRT -- your AS Associate degree in
9 magnetic resonance imaging or you can go through a
10 BS degree program and get it through a track, a
11 certification, or just post primary. So at that
12 point, you would just complete all the requirements
13 set forth by the AART, which they're becoming more
14 strict for 2018.

15 So with that being said, I think it's an
16 natural evolving to the point where we have to have
17 licensure for all of our modalities because of the
18 standards of care set forth by the Department of
19 Health and Human Services in 2012, they required all
20 facilities that have -- that want reimbursement, the
21 technologist has to be credentialed.

22 So right now, we have folks that may be working
23 at facilities that do not have Medicare, Medicaid
24 reimbursement, but for the facilities that do, they
25 have to have the credentialing. So I think as the,

1 you know, the standard of care, we need the
2 certification, the licensure for the State of
3 Florida in magnetic resonance imaging.

4 MARY HART: Did I understand you to say now
5 they can get credentialed for MR with sixteen hours
6 of didactic plus competencies?

7 STACY LOWE: That's correct.

8 KATHY DROTAR: That's in addition, though, to
9 having been certified in whatever other
10 modalities was your primary.

11 MARY HART: Right, I understand that. Wow,
12 that's much not at all.

13 STACY LOWE: It's a minimum, yeah. So I, for
14 one, I am happy to see our standards improving.
15 It's been a long time to get here.

16 MARY HART: And that's a national level
17 certification?

18 STACY LOWE: Yes, ma'am.

19 MARY HART: That's pretty minimal.

20 STACY LOWE: Yeah, it is.

21 RANDY SCHENKMAN, CHAIRPERSON: Do you know how
22 many hours the Associate degree is versus the BA?

23 STACY LOWE: Cumulatively, an AS degree is 60
24 hours and the BS is 120, so it just depends on the
25 curriculum set up. If it's just for MR, then, of

1 course, they have much more education and I didn't
2 really do any specific research on the AS MR.

3 KATHY DROTAR: There's some programs in Florida
4 that have an MR component to it, but there aren't
5 any actual approved schools in Florida currently.
6 To get those, before the AART puts in that sixteen
7 hours, they were -- there's some companies that will
8 come in and you can go for, like, three weeks and
9 get trained and do all of the competencies because
10 there's also a competency requirement that you have
11 to be signed off, and I think it's 75 scans that are
12 approved by somebody who is MR registered and is
13 current in that certification.

14 MARY HART: And will they be grandfathered?
15 Anyone who's registered now as an MR, they won't
16 have to redo anything, correct, if the standards
17 increase?

18 KATHY DROTAR: Because they're already
19 registered. But they will have -- there is a
20 24-hour continuing education credits that you have
21 to do to keep your registration current.

22 MARY HART: But they're not necessarily MR
23 specific, correct?

24 KATHY DROTAR: Every ten years now, starting in
25 I think it's '21, that there's a ten-hour -- or I

1 mean a ten-year renewal that doesn't have to be a
2 registry. But it's a self-evaluation and RA people
3 have already gone through that process. And that
4 the AART is going to look at, we're going to fill
5 out a self-assessment and then they're going to see
6 where you are and recommend specific areas for you
7 to --

8 KELLY NESMITH: It could be up to fifty hours.

9 KATHY DROTAR: Fifty hours, right. It's a
10 process. Because we're out of the medical
11 professions, we're behind doctors, behind nurses,
12 and as the technology increases, like Stacy says,
13 the technology increases and the knowledge and the
14 scope of patient care is being expanded as well.

15 MARY HART: Yes.

16 CHANTEL CORBETT: The problem is, too, it's
17 kind of like the chicken or the egg. It's kind of
18 with the CT license. For a long time, there was no
19 specific CT license. So the few programs that were
20 out there, specifically for CT, kind of died off
21 because there wasn't any point.

22 So now that the CT license is back, now we've
23 got people trying to reenergize those programs and
24 get them started again. So it's going to be kind of
25 probably the same thing, where if we really start

1 pushing the licensure and the advanced certificates
2 for MRI, then I think that you will see more the
3 programs rebuild, you know, and get these specific
4 modality programs. Because a lot of technologists
5 don't want to waste time and money to go take
6 something that's not going to do you any good, quote
7 unquote.

8 STACY LOWE: Right.

9 KATHY DROTAR: And I think after Mark's
10 presentation from the physics side with the safety
11 concerns and the Joint Commission, one of the
12 reasons the Joint Commission is saying the
13 certification is because there are -- there were so
14 many different accidents and that patient safety was
15 a sentinel event that MR is a, you know, kind of
16 something waiting to happen. Somebody comes in
17 with, hasn't been scanned and our students have to
18 go through a protocol on campus and then they go
19 through the different protocols because depending on
20 which zone of the MR that they enter.

21 So if there's -- it's that coming of age of
22 technology where we want those certified people,
23 people that are more than just knowledgeable.
24 People that really know what they're doing and
25 educated in that.

1 MARY HART: There's also so many imaging
2 protocols with the MR. If the ordering radiologist
3 isn't very specific, you know, it's nice when the
4 technologist recognizes that maybe it wasn't worded
5 perfectly for that indication and then gets in touch
6 with the radiologist because otherwise, they get
7 non-diagnostic exams and have to have repeats.

8 We just had a Joint Commission survey
9 inspection about, I think it's been two months, but
10 they looked very carefully at MR at the Department.
11 The safety; the knowledge of the people there. I
12 mean, we did well, but --

13 ALBERTO TINEO: This is going to be just like
14 CT. We should not be waiting for what happened in
15 California for us to prevent accidents from
16 happening. So we should always regulate as much --
17 I hate regulations, but I think this is one of the
18 ones that patient safety is what we're all about.
19 And is the technology that is -- everybody thinks
20 that it's nothing wrong with walking into an MRI
21 scanner, but there's a lot of things potential can
22 happen to you, from burning, to create -- if you're
23 not screening correctly, like she said, or just by
24 bringing a patient into the MRI scanner. I mean,
25 there have been accidents where O2 tanks have gone

1 into the scanners; patients being hurt badly from
2 it.

3 So it is one of those technologies that you
4 cannot ignore. I mean, it is -- and like the Joint
5 Commission took the side for it and they're coming
6 in and they're asking if your technologists are
7 certified in a specific area, such as CT and MRI.

8 And so we should -- it's a safety issue. It's
9 a patient safety issue.

10 CHANTEL CORBETT: There are classes now, too,
11 that with exams, for the technologist's level,
12 director level, and physicist's level for magnetic
13 radiation or, I guess -- I don't know exactly if
14 they're saying radiation/MRI, but it is MRI safety
15 officer courses.

16 So that's one of those things -- one of our
17 physicists just went and took it up north. So it's
18 an interesting class. A lot of it, they have three
19 separate exams, depending on what you are in your
20 work environment. But they are getting to the point
21 where they expect every hospital to have either
22 somebody on staff or somebody consulting that's
23 immediately available.

24 ALBERTO TINEO: There's a lot of safety that
25 you have to have. And, of course, the hospitals are

1 number one areas that gets -- all the regulatory
2 agencies are making sure that their standards are
3 being met because we either have the Joint
4 Commission or the other agencies, but it's huge.

5 KATHY DROTAR: The JRCERT, the citation agency
6 programs, has mandated that all programs include MR
7 safety within the radiation safety program. So
8 that's something that everybody has had to put in
9 place, too.

10 And, you know, going back to what James said
11 about the duties of the Council, that our main duty
12 is to make sure that there is radiation protection
13 for the people in the state of Florida.

14 JAMES FUTCH: I think, when I go back and think
15 about this and look at it a little bit more, this
16 was created in the early 1980s, this section. So I
17 think somebody had the foresight to recognize that
18 even though they built the statute that double
19 ionizing radiation --

20 ALBERTO TINEO: I would think the safety issue
21 hasn't changed any. In fact, it has gotten probably
22 more.

23 JAMES FUTCH: I remember when I first started
24 working for the Department in '88, there were
25 questions about MR and I was looking for something.

1 And there were two doctors who were out there,
2 Shellock and Kanal who wrote a book, which I went to
3 buy a copy of. Here's all the hazards with MR
4 safety. I think one of them moved on to do
5 something else or they went to a different facility.
6 One of them is still involved. And for many, many
7 years, one of their biggest contributions was that
8 they put together a database of all of the different
9 kinds of implants and other things that you can put
10 in the human body and what they were made of and
11 whether or not it would be something that reacted on
12 by the magnet in the body or not.

13 I don't know if that's still the go-to or not.
14 Hopefully the manufacturers are now thinking
15 forward.

16 ALBERTO TINEO: It's maintained. You have to
17 maintain it through the manufacturer.

18 JAMES FUTCH: Yeah.

19 ALBERTO TINEO: If you're going to scan a
20 patient, somebody has an implant, you have to check
21 to see what year was it, what was used, and whether
22 it's an approved device that you can scan the
23 patient. Some patients cannot be scanned.

24 WILLIAM ATHERTON: Also, the scanners today are
25 much stronger and their rate at which they scan is

1 much faster, so it's even more important today than
2 it was in the 80s.

3 JAMES FUTCH: Just for, again, Mark Seddon is
4 going to talk about this in more detail, but many
5 years ago, myself and a former bureau chief went
6 before the committee of the Legislature to talk
7 about some part of the statutes to include more
8 authority in the non-ionizing area. And I remember
9 one of the things that they wanted to know, of
10 course, were what are the hazards and their
11 terminology, were there any dead bodies and why are
12 you worried about this? And I don't think we
13 actually got much of a chance to explain.

14 But when you look at the hazards, you know,
15 there are different kinds, there are different
16 areas, there are some radio frequency components and
17 different unapproved testings, you can burn patients
18 that may not be able to feel it, quadriplegics or
19 paraplegics. There's the projectile effect from the
20 intense magnetic field. I'll let him speak to all
21 that.

22 But, you know, to me, looking at it from the
23 outside, it certainly seems like there's enough
24 issues that if there's some way out there to make
25 sure that the people who are doing the -- operating

1 the equipment, to screen the patients properly and
2 separate from the whole medical, did you do the
3 right diagnostic image, there's the safety side of
4 things. But this, I think, is kind of telegraph
5 that somebody expected the Council, maybe it wasn't
6 as widely used, I don't know in the early 1980s as
7 it is. I'm sure it's not.

8 STACY LOWE: No, not at all.

9 ALBERTO TINEO: It wasn't. It was the
10 beginning.

11 REBECCA McFADDEN: So can I ask a question? Is
12 the proposal to change the way that it is written to
13 identify that this Council do have recommendation,
14 and I guess my second question is, is it up for
15 discussion as far as MRI becoming a licensed
16 profession through the Department of Health, because
17 right now, obviously it's not.

18 JAMES FUTCH: Yeah.

19 REBECCA McFADDEN: So the topics that we're
20 talking about, are they up for review and is it
21 something that be changed at this point or is --

22 JAMES FUTCH: Well, we, from time to time, as
23 the Department, get the ability to suggest things,
24 be changed legislatively. It's a long and tortious
25 process and we've been through this.

1 REBECCA McFADDEN: Right.

2 JAMES FUTCH: It starts with us and our
3 division, and then it goes to the State Attorney
4 General and the State Attorney General has purview
5 of the entire Department of Health. All of the
6 things you saw in that book. And gets to pick a
7 couple issues that are highlighted. And it goes --
8 if it makes it through that, it goes to the
9 Governor's office. If it goes through that, it goes
10 to the Legislature and so forth. So it's very hard
11 to change laws.

12 But the statute says we have the authority; in
13 fact, responsibility to, is to study the device, and
14 to make some recommendations about what kinds of
15 folks would be appropriate. So I think the
16 intent --

17 REBECCA McFADDEN: The goal of this --

18 JAMES FUTCH: -- of this is to form the
19 foundational record of what we may eventually be
20 able to present to the Department on what to do.
21 Whether they choose to accept it or do anything with
22 it is entirely out of our control.

23 REBECCA McFADDEN: Right. And are other
24 states, I guess, are they licensing MRI
25 professionals or are we -- were we one of those who

1 were doing it?

2 JAMES FUTCH: I don't actually remember the
3 numbers. When we went through this back in 2013 to
4 do it the first time, we had a little survey of some
5 other states. I don't know how many it is.

6 KATHY DROTAR: I don't think there's that many.
7 Maybe Texas or California, New York.

8 REBECCA McFADDEN: So there's not many states
9 who are currently licensing MRI for their CR?

10 KATHY DROTAR: I think that goes with the type
11 of licensing that each state does because it's so
12 different. Florida has always been on the forefront
13 of protecting citizens, so that we have real solid
14 documentation about why things are needed and that
15 the certifications and licensing that's there, meets
16 with those national standards of all of our
17 respective societies.

18 But I don't think, partly because it's new and
19 I don't know that outside of the Joint Commission,
20 the physicists and the technologists that use the
21 equipment, that there are that many people that are
22 aware of the dangers because there's no x-ray
23 involved.

24 REBECCA McFADDEN: And there is a national
25 registry for the MR which you say is the

1 sixteen-hour education and some competencies and
2 then you can --

3 STACY LOWE: And then you can sit for the
4 board.

5 KATHY DROTAR: Through AART.

6 RANDY SCHENKMAN, CHAIRPERSON: That's --

7 KELLY NESMITH: That's secondary.

8 STACY LOWE: Post primary.

9 REBECCA McFADDEN: Okay. And compared to CT,
10 the MR is much less as far as requirements or is
11 about equal?

12 CHANTEL CORBETT: No, it's the same.

13 REBECCA McFADDEN: So it's about equal. And
14 nuclear medicine is not -- I'm just trying to get a
15 background so I can understand a little bit. So
16 nuclear medicine as well as MRI are not state
17 licensed and both are subject to change.

18 CHANTEL CORBETT: No. Nuclear medicine is a
19 primary and it is licensed.

20 REBECCA McFADDEN: Okay. But you're trying to
21 do CT as a secondary and MRI is -- any primary with
22 MR as a secondary.

23 KATHY DROTAR: I'm not sure if it's any. AART
24 lists out --

25 REBECCA McFADDEN: It would have to be --

1 JAMES FUTCH: It could be both primary or post
2 for the national registers.

3 REBECCA McFADDEN: For the national registers.
4 I'm just trying to identify the differences and the
5 importance of having it licensed as a state in
6 addition to as the national licensure. And what,
7 you know, what would be provided more in a positive
8 manner like, so what would be the positives to make
9 it licensed as a state versus just having the
10 national registry.

11 And I guess that's where I'm trying -- I mean,
12 patient safety is one thing. So would it set
13 standards and requirements for safety when utilizing
14 the MR? What are the benefits of being state
15 licensed for an MR?

16 JAMES FUTCH: Let's back up for a second.

17 REBECCA McFADDEN: Okay.

18 JAMES FUTCH: We're just talking about modality
19 and hazards and --

20 REBECCA McFADDEN: Right. Okay.

21 JAMES FUTCH: -- what the licensure landscape
22 is. For Florida, one of the differences between CT
23 that we talked about and the MR is that even before
24 we had this special technologist law in 2012, which
25 allowed us to recognize the National Registry

1 licenses by endorsement, it was ionizing radiation.
2 So somebody was doing CT in Florida. Even if they
3 didn't have a national registry CT credential, state
4 law said you have to have some kind of license from
5 the state because it's ionizing radiation. And the
6 license that you would've had would've been a
7 radiographer. A general radiographer. So you
8 would've had some kind of license.

9 But MR, because of the way this law is
10 structured, there is no state requirement that you
11 have to have any kind of non-ionizing license,
12 including MR, at all.

13 REBECCA McFADDEN: Right.

14 JAMES FUTCH: So you could do it in a small
15 facility, for example, that doesn't do reimbursement
16 through the any federal sources, for example. You
17 can have anybody do it. Now, would they do that?
18 Probably not.

19 KATHY DROTAR: The janitor can go in and do an
20 MR scan.

21 JAMES FUTCH: But you're not licensed. There's
22 no requirement.

23 CHANTEL CORBETT: The likelihood of that is
24 totally --

25 REBECCA McFADDEN: But a national registry for

1 the most part, not many --

2 JAMES FUTCH: If your employer is looking for
3 something to make sure your employee knows what
4 they're doing before you give them this
5 multi-million dollar machine and all of this
6 important reimbursement that's going to be done with
7 it, you would look to one of the national
8 registries.

9 REBECCA McFADDEN: Right.

10 CHANTEL CORBETT: So is it a shorter, is it a
11 shorter possible path to put it as a requirement to
12 at least have the national registry at the Florida
13 level?

14 REBECCA McFADDEN: At a minimum.

15 KATHY DROTAR: That's why endorsements we're
16 talking about.

17 JAMES FUTCH: Well, whichever way you wanted to
18 say it. For the Council's purposes, I think we need
19 to just look at, is this a modality that has some
20 type of hazards associated with it.

21 CHANTEL CORBETT: Yes.

22 REBECCA McFADDEN: Well, obviously.

23 JAMES FUTCH: You say that, but --

24 REBECCA McFADDEN: Yes.

25 JAMES FUTCH: We're dealing with audiences

1 further away from --

2 CHANTEL CORBETT: They have a lot more injuries
3 in diagnostic nuclear, so --

4 JAMES FUTCH: And may not, like Kathy said
5 before, half the people who call me don't even
6 realize we don't have a requirement for this. They
7 think, oh, first they have to be licensed and so
8 there are folks in the regulatory scheme who are
9 quite surprised that we don't. There's no
10 requirement for that in state law.

11 And then there are the other folks who think
12 it's just the same as ionizing. Don't worry about
13 long-term cancer induction. There's no lawyer
14 thinking in the back of their head, let's keep this
15 where it's achievable from those standpoints and
16 it's completely different. That's not what we're
17 talking about. Projectile effects and things like
18 that are, you know, not part of the Pantheon of
19 things that they understand.

20 So I think the Council's job would be to look
21 at it, make sure we've got it in the Record,
22 especially when folks like Mark come talk about it,
23 there our some hazards. And then say if we want to
24 discuss it and then talk about it, should we make
25 any kind of recommendations -- we don't have to make

1 any recommendation even now. We can invite the, you
2 know, the ASRT folks to come and talk about their
3 licensure and their requirements in more detail and
4 do it at a future meeting in October, for example.

5 ALBERTO TINEO: Not having the license by the
6 state, will then allow a free-standing MRI facility
7 to then hire a new -- any person can walk in there
8 and do an MRI.

9 CHANTEL CORBETT: That's always been the case.

10 ALBERTO TINEO: That's where we're saying as a
11 council, we should be protecting the public and the
12 patient. And it's not -- the hospitals will be
13 regulated whether we have a state license or not. I
14 mean -- but the issue is, we have to protect the
15 entire population of the State of Florida, which is
16 also the free-standing MRI standards that some of
17 them -- I'm not saying that they're terrible. Some
18 of them do go by what they are supposed to do. But
19 then there are some that just like to push the
20 envelope and if there's no requirement that they
21 have to hire a person that has a certified -- a
22 national certification, they will hire whoever and
23 they train them on the job and then they go at it
24 and do -- start doing MRIs.

25 RANDY SCHENKMAN, CHAIRPERSON: That goes back

1 to what Becky said then. That is it a quicker
2 course for us to say that anybody that's performing
3 MRI has to have the national certification.

4 CHANTEL CORBETT: Right.

5 KATHY DROTAR: Should have.

6 JAMES FUTCH: Well --

7 REBECCA McFADDEN: Right now.

8 CHANTEL CORBETT: Our suggestion that's what
9 we're saying.

10 RANDY SCHENKMAN, CHAIRPERSON: We're saying --

11 CHANTEL CORBETT: Is our suggestion that we
12 move forward in that.

13 RANDY SCHENKMAN, CHAIRPERSON: Right. In that
14 direction.

15 CHANTEL CORBETT: Is that how we proceed? We
16 would make a recommendation to change?

17 KELLY NESMITH: James, what if they added, like
18 if they added for PET CT, the three ways to meet the
19 requirements to PET CT and nuclear medicine and it
20 was in the administrative code to say that you had
21 to take a safety course and it has to cover these
22 subjects or you have to have the national registry
23 or you can take a manufacturer's course to prove a
24 certificate.

25 KATHY DROTAR: I really think what we need is

1 that recommendation, but we need to pursue this more
2 and to get more solid information so that we can
3 move it through the department in order to have it
4 considered and make those changes that are needed.

5 I think we're recognizing that there's a
6 probable need and that there are a number of safety
7 considerations and that it would behoove the Council
8 to look at that and to then make recommendations
9 about who should and who shouldn't, because I think
10 there's a number of things, just going back to how
11 the Legislature, how the regulations are written,
12 like you're saying, that there's different levels.

13 JAMES FUTCH: And then not trying to put the
14 cart before the horse, which you know, Mark was
15 supposed to talk first so you understand a little
16 bit about the process, and people who are in this
17 room a little bit more, and then talk about the
18 personnel side of it.

19 We don't have to do anything. I'm not writing
20 any motions for folks to go vote on. I'm just
21 trying to get the information in the Record and then
22 go from there. And it may not happen at this
23 meeting. When they want to know more, we should be
24 able to have the national registry folks to talk to
25 us about some of this, but --

1 REBECCA McFADDEN: Are MRI machines licensed
2 like x-ray?

3 JAMES FUTCH: The other side I wanted to
4 mention, you know, we have two Florida statutes that
5 the Council has purview over. One is 416 deals with
6 licensure of personnel, which is where the Council
7 is incorporated, but the other one is 404, which
8 kind of ties in from the radiation protection side
9 of things.

10 We don't have authority in 404, like we do for
11 x-ray machines, to go out and inspect or set any
12 kind of standards at all. There's nothing on the
13 non-ionizing side except for a very small statute
14 that talks about lasers and laser registration. And
15 that one also only talks about registration. It
16 doesn't set any requirement to go out and renew and
17 be inspected and all of this. So the whole
18 non-ionizing side -- and RF isn't even mentioned at
19 all.

20 So, by the way, all of the -- you may have seen
21 these facilities where your salons -- in our
22 neighborhood, there are devices out there which
23 marry ultrasound and RF and laser technology all
24 together in the same device. And they are used for,
25 basically, transmitting energy into deeper tissues

1 to do things like giving collagen or causing it to
2 be reabsorbed by the body. And all of that is
3 completely unregulated both on the operator's side
4 and on the machine side.

5 So there's a lot of stuff out there, guys.
6 Just focus on MR today. And it's a -- you're an
7 advisory council, so you make recommendations and
8 the Department decides how far to go with it. And
9 we make a good recommendation, it's based upon sound
10 facts. It's in the Record and we have something to
11 rely upon and at least make the case as an
12 organization.

13 So I think perhaps we've gone as far as we can
14 with MR at the moment.

15 RANDY SCHENKMAN, CHAIRPERSON: Yeah. We'll
16 wait until we get --

17 REBECCA McFADDEN: Sorry, I asked too many
18 questions but I had to get an understanding -- from
19 Mark.

20 JAMES FUTCH: All questions, all the same kind
21 of things that people farther up the food chain when
22 you get, especially when you get downtown, they're
23 all going to ask those questions. They're all going
24 say, why this and why not that? And have you
25 thought about this, have you thought about that?

1 And the one thing that we supply is, we're all
2 much closer to the business end of the medical
3 imaging and understanding how the devices work and
4 how the people get certified, at least at the
5 national level, and what kinds of classes they teach
6 and what the exam covers. And it does cover safety,
7 obviously.

8 KATHY DROTAR: Yes.

9 JAMES FUTCH: So that's the biggest and most
10 important use for us.

11 Anything else on MR before we move on to --
12 Mark is not quite here. He's still -- probably
13 caught in a little bit of traffic. But we're going
14 to do the -- do you want to take a break? All
15 right. Ten minutes?

16 (Proceedings recessed at 11:11 a.m.)

17 (Proceedings resumed at 11:25 a.m.)

18 RANDY SCHENKMAN, CHAIRPERSON: Okay. So when
19 Mark gets here, we will hear more about this. But
20 for right now, we are going to move on to -- we're
21 going to talk -- we're going to move on to personal
22 security scanners.

23 JAMES FUTCH: I'm going to kill hopefully some,
24 but not all of the lights.

25 So every meeting we go through and talk about

1 rules and there's some rules in process that we
2 can't talk about.

3 (Allison Dudley is not present)

4 JAMES FUTCH: There are some rules that we've
5 completed and we can talk about those.

6 I want to say one thing, and Brenda is going to
7 slap me if I say too much, so I won't say too much.
8 6040-3 we're in process on with something that is
9 adapting our Florida regs to be in compliance with
10 some continuing education stuff at the national
11 level. National Registry level. And I won't go
12 into the details because that would violate all
13 sorts of things in terms of process for rules and
14 regulations and that might invalidate that whole
15 process. But there is something moving along with
16 that.

17 What do you have to say about dash four? Dash
18 four is the -- 63-4 is the non-ionizing laser
19 registration. We're doing the same thing there.
20 We're keeping up with the -- some national standards
21 that exist for lasers that our regs are tied to.
22 They changed them. We're trying to adapt that at
23 the state level. And I think that's about to go
24 into the regulatory process on that one.

25 BRENDA ANDREWS: Yes.

1 JAMES FUTCH: Which leaves us with the last
2 regulation that we're responsible for in terms of
3 radiation control is 63-5, which is where everything
4 else is. Radioactive materials and x-ray machines
5 and anything, environmental monitoring and so forth
6 and so on.

7 And we just finished adopting the regulatory
8 changes to personnel security scanners. If you
9 think way back, this was something that was brought
10 to us many moons ago. I forgot --

11 BRENDA ANDREWS: A couple years now.

12 JAMES FUTCH: We have x-ray statutes which
13 require some things and they have very strict
14 requirements and most them deal with medical use of
15 x-ray machines. And the world changed, 9-11
16 happened and even if it didn't, the law enforcement
17 side of the world and the jails and the courthouses,
18 places that want to make sure, like no guns go into
19 them, they have a market. They have x-ray machines
20 that are used to scan people going into those
21 places. And so we have the medical x-ray
22 requirements and then we have the x-ray machines,
23 very low-dose machines used for a completely
24 different purpose.

25 BRENDA ANDREWS: For security.

1 JAMES FUTCH: For security purposes. So for
2 many, many years, we would be approached by those
3 entities to say, hey, your regs don't really fit
4 anything. We've got this thing that we're doing,
5 and they would apply for a variance from the
6 regulation. And we would go through and grant that
7 variation. It's the same variance, same kind of
8 thing that we would give them the ability to not
9 have to obey, basically, that part of the
10 regulation. And we did that a fair number of times.

11 And finally, part of the overseeing authority
12 of state regulations in Florida came back and said,
13 you granted this so many times, you really need to
14 amend your regulations so you don't have to grant a
15 variance all the time. Just put it in the
16 regulation. And that is what this presentation is
17 about.

18 I say this because you notice my name is not on
19 the bottom. Neither of those two people are here
20 and they couldn't be here today. But we wanted to
21 give you some sense of what was happening in that
22 realm.

23 How many slides is this?

24 BRENDA ANDREWS: It's not that long of a
25 presentation.

1 JAMES FUTCH: Right. This was given to the
2 CRCPD.

3 BRENDA ANDREWS: Actually, it was supposed to
4 be. However, we were still in promulgation during
5 that time, so we had to zip the lips. We could not
6 talk about that at the CRCPD meeting. It was set up
7 for that purpose, but we had to take that off of our
8 agenda for that.

9 JAMES FUTCH: CRCPD is our national, our
10 radiation control organization at the state level
11 organization of all the radiation control offices
12 all over the country and they had their annual
13 meeting last week.

14 BRENDA ANDREWS: Yes.

15 JAMES FUTCH: So I'm going to just flip through
16 this very quickly just to see what facts and figures
17 are in here.

18 So the standard that we talked about, there is
19 actually an ANSI standard. I forget the number.
20 It's in there some place, I'm sure. That covers
21 security scanners and there's a couple different
22 classes, but there are dose limits. The medical,
23 double APM, and I think HPS worked on that and
24 that's --

25 BRENDA ANDREWS: It was 43-

1 JAMES FUTCH: N43.

2 BRENDA ANDREWS: N43-009.

3 JAMES FUTCH: Mark can probably tell us.

4 This is what I said before. We're getting a
5 training facility starting in 2011, they told
6 somebody who told somebody, who told somebody and we
7 ended up with 17 variances or thereabouts. So
8 that's the person at the bottom is the person who
9 said, go fix your rule.

10 This is a couple of companies that make these
11 security screening devices. You saw the dose rates.
12 Ten, twenty.

13 BRENDA ANDREWS: These scanners are only for
14 penal systems. For inmates. Not for the public.

15 JAMES FUTCH: We tried to couch it in terms of
16 what was required. So we don't expect these to show
17 up in the regulation we put in place can't be used
18 to security screening for anything other than these
19 fairly defined purposes.

20 So there's different kinds. This particular
21 one they stand on a platform. You guys have been
22 through all sorts of metal detectors. They operate
23 very similar, except for the radiation, of course.

24 I don't know if people were complaining about
25 being able to see images. I didn't hear that.

1 BRENDA ANDREWS: No.

2 REBECCA McFADDEN: Do the officers have their
3 badges that are operating these?

4 JAMES FUTCH: That's a good question. I don't
5 remember.

6 CHANTEL CORBETT: At those rates, I'd be
7 surprised. They probably do.

8 JAMES FUTCH: There are two levels in the ANSI
9 standard. The one most of these are in, I don't
10 think required that. They don't even require
11 keeping track of inmate doses.

12 BRENDA ANDREWS: I think this one does, though.
13 The rule.

14 JAMES FUTCH: The rule does?

15 BRENDA ANDREWS: The rule does. And the ANSI
16 standard does, I'm sorry.

17 JAMES FUTCH: Yeah, I was going to say there's
18 a higher threshold system in the ANSI standard,
19 which I'm not sure of the rule, to make sure when
20 the ANSI standard says you need to start keep
21 tracking of all the scans and the doses. Which I
22 think they use the general public dose.

23 BRENDA ANDREWS: I don't remember if it's the
24 general public dose. The rule, itself, does not
25 actually say, indicate the dosages. It just says to

1 refer to the ANSI standards. So the ANSI standards
2 is the one that outlines the dose rate that they can
3 take over a year's time.

4 CHANTEL CORBETT: Typically, you know,
5 background is usually, in Central Florida anyway,
6 you know, twenty-five to thirty microR per hour and
7 this is around ten to twenty.

8 JAMES FUTCH: I remember looking at these
9 before. These things are talking about individual
10 doses, scans in that ballpark or less. Twenty-five
11 microR is actually the top end of the dose. I'm
12 sure we'll have it here. It's designed to operate
13 itself. Stores an image. So it transmits scans of
14 the soft tissues.

15 This just gives our authority. There's the
16 standard. NCHBS17-2009. It's twenty-five microM
17 per person.

18 WILLIAM ATHERTON: Per scan?

19 JAMES FUTCH: Yeah, per scan.

20 WILLIAM ATHERTON: How often are they scanned?

21 JAMES FUTCH: This is where --

22 REBECCA McFADDEN: Over the course of ten
23 years.

24 JAMES FUTCH: There is a higher level. If they
25 do enough scans that they are approaching a higher

1 level, they have to start keeping track.

2 RANDY SCHENKMAN, CHAIRPERSON: Are you talking
3 about the inmates or are you talking about the
4 person doing the scans?

5 JAMES FUTCH: No, this is the person going
6 through the --

7 CHANTEL CORBETT: This is the patients.

8 REBECCA McFADDEN: This is the inmates they're
9 talking about. So per scan.

10 JAMES FUTCH: So this is basically saying the
11 way they're screening, because there was an
12 overriding public health and safety need that was
13 not contraindicated by the --

14 KATHY DROTAR: James, are either one of the
15 scanners mentioned in this, ones that where we had
16 somebody that came and spoke to the Council several
17 years back, but --

18 JAMES FUTCH: I'm trying to remember which one
19 it was.

20 KATHY DROTAR: -- because our main concern
21 there was also the dose. I remember Nasio (ph)
22 saying the dose to the thyroid, they didn't really
23 have any information at that time. So it looks like
24 they've accumulated some of that.

25 JAMES FUTCH: Yeah. I think Cindy was

1 interested in what the other states were doing. Our
2 own county in Tallahassee is employing these.

3 So these are the questions that CRCPD sent out.

4 MARY HART: What was the answer to the
5 question, is the number of scans per individual
6 tracked?

7 JAMES FUTCH: I'm thinking that's hopefully on
8 the next slide.

9 There you go. Seventeen responded. This is
10 the stuff that we were doing before. The one that
11 had the rule was based on the same ANSI standards.

12 One currently prohibits all exposure unless
13 it's for healing arts purposes. We actually, this
14 is kind of interesting, had a discussion with our
15 attorneys about that. This is kind of interesting.
16 And that's one of the reasons we ended up with this
17 rule.

18 REBECCA McFADDEN: Seventy-five scans per
19 twenty-four hours. Those inmates that even come
20 back every day, you know, if they're getting scanned
21 every time -- so they never know when they're going
22 to go.

23 KELLY NESMITH: It's like a random drug
24 screening.

25 REBECCA McFADDEN: Yeah.

1 JAMES FUTCH: When they come into the facility.

2 KELLY NESMITH: Body cavity scan.

3 JAMES FUTCH: I can imagine it's pretty
4 difficult to figure out what those objects are if
5 you never had an x-ray machine before.

6 RANDY SCHENKMAN, CHAIRPERSON: So these people
7 don't have to have any training?

8 JAMES FUTCH: I'm sure the manufacturer is
9 providing some, but whether or not you're going to
10 leave a person to understand and not read an x-ray
11 to understand what's on the body.

12 CHANTEL CORBETT: The creative nature of
13 inmates and things that they would be hiding.

14 JAMES FUTCH: In different places.

15 CHANTEL CORBETT: Yeah.

16 REBECCA McFADDEN: We don't need any details.
17 We're good.

18 JAMES FUTCH: When I first heard about it was
19 Collier County that was doing it. Field training
20 allowed officers to get accustomed to the
21 technology. They can run the machine, but actually
22 seeing, determining what was on the person takes
23 longer.

24 REBECCA McFADDEN: They're scanning all kinds
25 of stuff, not just people.

1 RANDY SCHENKMAN, CHAIRPERSON: Right.

2 JAMES FUTCH: They have the baggage handlers if
3 they want to scan objects. And they've had those
4 for a long time.

5 WILLIAM ATHERTON: Going along to the fourth
6 point, it says they found less contraband in
7 inmates. Have they had any outcome studies to see
8 if it has helped?

9 JAMES FUTCH: None that I've heard of.

10 WILLIAM ATHERTON: After doing all this
11 scanning, has it really helped?

12 JAMES FUTCH: That would be an interesting area
13 for someone -- I'm just saying --

14 WILLIAM ATHERTON: It seems like if you're
15 exposing them --

16 JAMES FUTCH: There's an HBS publication right
17 there. Ready to happen. Have you seen anything?

18 PAUL BURRESS: No. Just safety.

19 MARY HART: How does it save money?

20 JAMES FUTCH: This is their comments. This is
21 the jails' comments. Comments are free.

22 CHANTEL CORBETT: Probably because it takes
23 less personnel to run those things.

24 JAMES FUTCH: This could be a deterrent just
25 because the inmates don't know what you're going to

1 see or find.

2 CHANTEL CORBETT: They're going to assume
3 you're going to find everything.

4 RANDY SCHENKMAN, CHAIRPERSON: Or when you're
5 going to scan them, is what the last one said.

6 CHANTEL CORBETT: Right, if it's random.

7 KATHY DROTAR: There's a company that came in
8 to talk to us, were also talking about scanning the
9 visitors that came in as well.

10 CHANTEL CORBETT: But that's like going into a
11 courthouse or anything else.

12 MARY HART: Exactly.

13 JAMES FUTCH: It's going to be an interesting
14 interplay. Scanning places where lawyers go. Hmm.

15 (Laughter)

16 BRENDA ANDREWS: They have metal detectors in
17 the courthouses, but they're not scanners. That's a
18 major -- I mean, you run your property through this
19 scanner, but as far as the body going through, it's
20 more the metal detection.

21 JAMES FUTCH: This is interesting. It's
22 considered a virtual strip search. There's, I
23 guess, a higher level of offense required. Weapons,
24 controlled substances, when it says a person can't
25 be released.

1 REBECCA McFADDEN: Like a strip search.

2 JAMES FUTCH: The one jail person. It's a
3 deterrent. Interesting.

4 The standard, itself. Let's see. 25 microR
5 per year. So one quarter of the recommended dose.
6 Which is one third of what you get from naturally
7 occurring sources in the world.

8 WILLIAM ATHERTON: What's on top of them?

9 CHANTEL CORBETT: You can't get away from the
10 natural ones.

11 MARY HART: But the question is how do they --
12 they don't count how many times. That seems
13 unlikely.

14 CHANTEL CORBETT: I mean if it's twenty-five
15 microR per scan.

16 JAMES FUTCH: .25. General use systems, which
17 are lower dose ones, twenty-five microR per scan.

18 PAUL BURRESS: So you'd have to get a thousand
19 scans per year.

20 JAMES FUTCH: Three a day.

21 PAUL BURRESS: But this also in the dose range
22 of bone density scanners. They're right in this
23 range and yet we require qualified people and you
24 have to calibrate the conditions and have the QA and
25 have the warning signs.

1 MARY HART: The calibration is what I'm worried
2 about.

3 JAMES FUTCH: So this is what we are --

4 CHANTEL CORBETT: Security guards run the scan.
5 That's not going to prevent a lot of things right
6 there. You need to do your security guards because
7 they're usually the ones bringing things in.

8 JAMES FUTCH: Do you want that in the official
9 record there, Chantel?

10 (Laughter)

11 CHANTEL CORBETT: Sure, I have no problem with
12 that. Just look at Starke and how many people have
13 been arrested.

14 MATTHEW WALSER: How do you know about all this
15 stuff?

16 CHANTEL CORBETT: My ex-husband is a sheriff's
17 officer and my husband is from Raiford.

18 MATTHEW WALSER: There you go.

19 JAMES FUTCH: For our rule, it's not going to
20 be used any place else than the penal system.

21 BRENDA ANDREWS: I think we had one person who
22 requested a waiver for a jewelry store. That's
23 probably the one.

24 JAMES FUTCH: Yeah. This is the current
25 language. I think this was taken from the ANSI

1 standard, itself.

2 BRENDA ANDREWS: We did the first rule
3 language.

4 JAMES FUTCH: So we're done with all this.
5 Yeah. This was prior to actually being --

6 I look forward to the x-ray administrator
7 dealing with all of this.

8 BRENDA ANDREWS: No inspectors.

9 JAMES FUTCH: The one in the middle, the BMI
10 measurements.

11 PAUL BURRESS: It would be a way to skirt the
12 bone densitometry rules. I've got a personal
13 security scanner.

14 JAMES FUTCH: You can't do it now the way this
15 regulation is written. They can request a variance,
16 which would probably be denied.

17 PAUL BURRESS: Yeah.

18 BRENDA ANDREWS: We're not doing anymore
19 variances.

20 JAMES FUTCH: Good. Obey the rule. And that's
21 it.

22 WILLIAM ATHERTON: So this rule, basically, I
23 thought one of the rules says they can't use it for
24 non-physician ordered purposes. This rule allows it
25 to use it for non-physician ordered purposes.

1 JAMES FUTCH: Yes. The rule is officially
2 providing a way to do it for non-medical purposes as
3 opposed to just having them ask for variances that
4 we basically have to grant and it provides a firmer
5 footing for us to deny those very narrow exceptions.
6 It is an exception that you can only do it for
7 medical purposes.

8 WILLIAM ATHERTON: Does that -- now does this
9 rule have to go through Congress?

10 JAMES FUTCH: Uhn-uhn. We always thought -- I
11 always thought, when I read the statutes, they
12 weren't permitting medical uses. And apparently, I
13 was wrong, according to the current crop of
14 attorneys who are reading those statutes. Hence,
15 this regulation was needed.

16 PAUL BURRESS: Risk benefit, it seems like it
17 tips toward benefit if it's really used properly for
18 security. And the risk you worry about, it's low.
19 It's less than MRI risk. And MRI risk we know is
20 not regulated. The machines are regulated, though,
21 by FDA, right, and since they are machines --

22 JAMES FUTCH: From the production and
23 manufacturing side.

24 PAUL BURRESS: So they have standards and
25 installation requirements and they're licensed, too,

1 with the state, right?

2 JAMES FUTCH: They are.

3 PAUL BURRESS: And the state will inspect
4 these?

5 JAMES FUTCH: Registered and inspected.

6 BRENDA ANDREWS: Now they have to be
7 registered. And they have to probably now pay the
8 registration fees, whereas that wasn't happening
9 before.

10 JAMES FUTCH: They were given a variance from
11 the -- from all of the requirements.

12 PAUL BURRESS: So there are controls in place.
13 It seems like this isn't a huge area to have a lot
14 of concern for.

15 JAMES FUTCH: I think we went over this with a
16 fine tooth comb many, many times with a fair number
17 of folks to try and contain this down to just a bare
18 minimum that was needed to meet the health and
19 safety requirement of jails. I mean, like Chantel
20 was saying before, there was a little bit of problem
21 with contraband in jails.

22 PAUL BURRESS: Yeah.

23 JAMES FUTCH: And you have to do something.

24 PAUL BURRESS: The only thing I wonder about
25 bone densitometers are fixed. You know, the beam is

1 only going one way and you don't see straight
2 radiation with these pencil beam units. Are these
3 pencil beams?

4 JAMES FUTCH: I've never seen one, myself.

5 PAUL BURRESS: I wonder if they get out of
6 alignment, if they could be not delivering the right
7 dose to do the job, but --

8 JAMES FUTCH: I would assume when the
9 inspectors go out and inspect them, they inspect
10 them.

11 BRENDA ANDREWS: Yeah, now that the rule is
12 adopted, our inspectors will develop SOPs in order
13 to go in and do the same thing they do with other
14 x-ray machines. They will set them up on a regular
15 basis to have them inspected and calibrated. If
16 there are any violations, those would be reported.
17 So they now have to follow the same procedures that
18 they do with any other x-ray machines.

19 MARY HART: So this has already been approved?

20 RANDY SCHENKMAN, CHAIRPERSON: The people
21 running the machines, do they get the training for
22 that? For calibrating them, making sure --

23 WILLIAM ATHERTON: And do they wear dosimeters?

24 BRENDA ANDREWS: I don't know the answers to
25 that part.

1 JAMES FUTCH: I would assume since they're
2 registered, part of the regulatory environment now,
3 all of the normal part of Part III would apply.
4 Which means if there's a reasonable expectation
5 they're going to get more than 500 mill in a year as
6 an operator, they're going to have to have them. My
7 own guess is there would be no reasonable
8 expectation they'll get more than 500 mill a year on
9 a device as an operator.

10 PAUL BURRESS: Yeah.

11 JAMES FUTCH: But that requirement is already
12 in the regs for all ionizing.

13 BRENDA ANDREWS: We'll get the answers.

14 RANDY SCHENKMAN, CHAIRPERSON: I was just
15 curious. People who are operating them know what
16 they're doing.

17 JAMES FUTCH: You look like you have a question
18 on your face.

19 MARY HART: Yeah, actually, Chantel brought
20 out, why are we -- the courthouse, these same
21 devices are used in the courthouse, but I guess it's
22 because people randomly -- it's a rare event
23 hopefully that you're going in and out --

24 JAMES FUTCH: I don't think these are security
25 scanners --

1 CHANTEL CORBETT: These are different.

2 MARY HART: Those are just the metal detectors,
3 right.

4 JAMES FUTCH: We call them baggage handlers,
5 you put your stuff --

6 CHANTEL CORBETT: You put your stuff in the
7 bags.

8 JAMES FUTCH: The curtains open and the x-rays
9 go through the device. They find all sorts of
10 things to pull out of my bag.

11 Don't ever bring, let's see, a VHF radio next
12 to two portable hard drives with a bunch of wires in
13 your bag.

14 (Laughter)

15 CHANTEL CORBETT: Anything with a bunch of
16 wires probably these days.

17 JAMES FUTCH: You'd think that but really, it
18 was the density of the hard drives next to the radio
19 and the lithium batteries that were needed for the
20 radio that was in there.

21 CHANTEL CORBETT: The wires.

22 PAUL BURRESS: Don't put a hockey puck next to
23 an iPad, either.

24 (Laughter)

25 CHANTEL CORBETT: Or a lineator. Don't try to

1 take a lineator through.

2 RANDY SCHENKMAN, CHAIRPERSON: Because they
3 can't get through the densities, so they have to see
4 what it is.

5 JAMES FUTCH: I had this person, a lot of folks
6 when you're teaching, when I talk about materials, I
7 usually take some, you know, consumer products,
8 Fiesta ware, vaseline glass, granite countertop.

9 So I had this freaky looking piece of vaseline
10 glass, this yellowish green highlighter color from
11 the Uranium that they used in glass. This was an
12 ashtray. It was a big, large thing. I had been
13 taking it back and forth through airport scanners
14 training all over the country a long time.

15 I went through Tallahassee a couple months
16 back, and the guy pulls the bag over. He's like,
17 you know, come on over here. And he goes through
18 the, going through all this stuff. And he pulls
19 this ashtray out. I'm like, oh, crap, he finally
20 figured out that it's mildly radioactive, you know,
21 norm basically, that's, that's going on your
22 airplane. And he goes, I just want to do a swipe
23 test on it and he did the nitrates. It's just an
24 ashtray.

25 (Mark Seddon Enters the Meeting)

1 RANDY SCHENKMAN, CHAIRPERSON: Welcome.

2 JAMES FUTCH: I think we're about to break for
3 lunch.

4 But so anyway, anymore questions about scanners
5 and the new rule or anything like that?

6 So Brenda, I think, passed out or is about to
7 pass out --

8 BRENDA ANDREWS: I don't have enough, but these
9 are menus.

10 JAMES FUTCH: Share your menus.

11 BRENDA ANDREWS: We have -- the only restaurant
12 in the area, without having to drive somewhere, is
13 in this hotel and they are setting up for lunch for
14 us. And I just printed off a few menus. So if you
15 all wanted to take a look at it before you go down
16 there and see if you see something you want or there
17 are menus on the table. I saw that they are already
18 setting things up for us.

19 (Chantel Corbett Leaves the Meeting)

20 JAMES FUTCH: So I think we're to the point
21 where we probably should break for lunch. And I
22 know who has to leave early today. You have to
23 leave?

24 ALBERTO TINEO: 1:30.

25 MATTHEW WALSER: 2:30.

1 RANDY SCHENKMAN, CHAIRPERSON: Since we're in
2 the hotel and they're ready for us, if we can be
3 back here at one o'clock?

4 BRENDA ANDREWS: If you need us to, we can
5 be --

6 JAMES FUTCH: See if you can be back at 1
7 o'clock.

8 BRENDA ANDREWS: Eat fast.

9 RANDY SCHENKMAN, CHAIRPERSON: At least we have
10 an idea what they have, right?

11 MARY HART: Can we leave the paperwork and
12 stuff here?

13 JAMES FUTCH: Oh, yeah, you can leave all that
14 stuff here.

15 RANDY SCHENKMAN, CHAIRPERSON: Okay. So let's
16 break for lunch everybody, and then we'll be back
17 here at one.

18 (Proceedings recessed at 11:54 a.m.)

19 (Proceedings resumed at 1:10 p.m.)

20 RANDY SCHENKMAN, CHAIRPERSON: Are we ready to
21 get back to business?

22 We're now going to be hearing from Mark who's
23 going to give us an overview on the safety of MRI --
24 or not safety.

25 MARK SEDDON: No, it's safe.

1 JAMES FUTCH: A little bit of both.

2 MARK SEDDON: It's a little bit of both.

3 JAMES FUTCH: As we watch this, think of our
4 non-technical audiences who may eventually review
5 this material later on. Sorry. Go ahead.

6 MARK SEDDON: So I apologize for running late
7 this morning. I was running around out of town.

8 EFSTRATIOS LAGOUTARIS: Unacceptable, Mark.

9 MARK SEDDON: Family issues, so I apologize.
10 I also know some of you might be leaving here
11 soon.

12 Basically, James just wanted me to give you an
13 brief overview of some MRI physics and some MRI
14 safety discussion. I understand Stacy already
15 talked this morning about some MRI technologist's
16 perspective of things.

17 So basically, an overall picture of how an MRI
18 works. MRI is basically a large magnet and your
19 patient lies within the scanner with the magnetic
20 field created within the patient. So this magnetic
21 field causes the nuclei within the hydrogen proton
22 atoms to align with the magnetic field. You get an
23 image by creating an electromagnetic radiation RF
24 pulse which is transmitted from the machine into the
25 patient and it excites the protons.

1 So after you excite all those protons, they
2 give off the extra energy in the form of the same
3 frequency of electromagnetic radiation and that's
4 received by the machine and it produces the image.
5 So that's the real basic overview of what MRI does.

6 But the bonus of the MRI is the primary magnet,
7 and this creates the magnetic field. It's basically
8 a supercooled conducting coiled electrical wire with
9 a current running through it.

10 In addition to that, you have gradient magnets
11 which are smaller magnets that cause time varying
12 gradient fields to be created. And this helps them
13 to allow the geometrical location of where the
14 signal is coming from within the body.

15 And then finally, you have your coils, which
16 are the antenna that are placed either within the
17 core, itself, or around the patient body part you're
18 looking at and those emit radio frequency pulses and
19 allow for the alignment of protons and they also
20 receive the RF radiation, CM5 radiation.

21 So just looking at perspectives as far as the
22 strength of the large magnetic field we're using,
23 the gauss, typically the earth is a measurement of
24 magnetic field strength. So for the earth, it's .5
25 gauss. In MRI, we talk about tesla. And so, most

1 of our MRI magnets are 1.5 tesla or 3 tesla for the
2 most common ones used, clinically used today. So
3 the relationship is that 1 tesla is equivalent to
4 10,000 Gauss. So there's a huge increase in the
5 force of a magnetic field that we have from the MRIs
6 used versus what is used or what we have from the
7 earth.

8 So some of the factors contributed to MRI
9 imaging, I'm going to go over some basic MRI
10 physics. If I get into too much detail to show --
11 it's very complicated, and so, there is a lot of
12 respect that goes to the MRI technologists. We have
13 to figure all this out on the back end of it.

14 But you have different quantum properties of
15 different materials that create the Larmor frequency
16 spins. You have the RF excitation properties of the
17 tissues. The tissue relaxation properties. Of
18 course, the magnetic field strength is 1.5 or 3
19 tesla magnet; the type of gradients you have and
20 then how the gradients are timed and the RF pulses
21 and the signal detection.

22 So when we're doing MR, we're actually looking
23 at proton densities. Because within the body, the
24 hydrogen atom is your dipole molecule that has
25 actually a magnetic field, in essence, so it's MR

1 sensitive. And so, because most of us are made up
2 of water, we're using all hydrogen atoms to create
3 these images.

4 And so, looking at these little hydrogen
5 molecules, normally they're all spinning in random
6 orientations. And when they are aligned in an MRI
7 scanner, they are all lined up in one single
8 rotation, but still spinning, precessing.

9 So the difference between a state where they
10 are aligned and not aligned is based upon the type
11 of nucleus you have, and so, this is related to this
12 Larmor frequency. So for a proton, which is
13 hydrogen, it's 42.57 MHz/tesla.

14 Jim asked me to throw in an equation, just to
15 mess with you.

16 JAMES FUTCH: It feels like physics now. Okay.
17 I'm all better. Go ahead.

18 MARK SEDDON: So the radio frequency of some
19 common nuclei, so for a 1.5 tesla magnet, which is
20 like the common used, for hydrogen, it's 63.86 MHz.
21 Some other materials have a specific resonance
22 frequency, a Larmor frequency that they precess at.

23 Talking about precessing, the resonance, so
24 that relates to the transfer and exchange of
25 energies between two systems, and so it's very

1 specific to the type of frequency that is used to
2 create the RF pulse and also the -- this is based
3 upon the material that you're trying to excite.

4 So what happens is, you have all these protons
5 which are precessing at a certain frequency, and so
6 you can go ahead and energize them with an RF pulse
7 at the same frequency. And then during equilibrium,
8 as they reduce back down to a lower energy state,
9 they will emit energy in the same, again, with the
10 same frequency.

11 So we have all these protons, you have a net
12 magnetization, with many, many spins, so the tissue
13 has overall net magnetization as related, related to
14 the strength of the magnetic field. So obviously,
15 you have higher density with a 3 tesla versus 1.5
16 tesla magnet.

17 That basically says the same thing. So the
18 smaller the field, the lower the net magnetization
19 versus the larger field. This gives you a better,
20 better signal and better image quality.

21 So to measure magnetization, we must perturb
22 it. So you can only measure magnetization in the
23 body when it's perpendicular to the base magnetic
24 field, so we apply the energy, RF pulses to tip
25 those protons out of alignment. And the amount of

1 energy needed is based upon the type of material
2 you're looking at, radiant protons for MRI and the
3 field strength. And the amount of energy you add,
4 as far as how long the pulse is, how much energy
5 you're providing, will determine how much of a tip
6 you have with the protons.

7 So normally, the protons are aligned along
8 the axis of the MRI. When you apply an RF pulse,
9 they start precessing out of frequency around the
10 magnetic field. Kind of like a gyroscope.

11 So when you apply an RF pulse at magnetic
12 resonance, the protons spin, because these are,
13 these protons are spinning. They will spin and tilt
14 down to a 90-degree angle, say, to give enough of, a
15 long enough RF pulse. And then as the -- once you
16 take the RF energy away, the proton will start
17 tilting back towards the axis.

18 And this is what that's basically showing. So
19 once you turn off the transmitter, you start seeing the
20 protons realign. As they're realigning, they're giving
21 off energy at the same frequency.

22 So this energy that you're -- that the body is
23 giving off, the tissue is giving off, they are recorded.
24 So you have a receive coil, an antenna, basically, which
25 is attuned to the same frequency that you use to excite

1 the protons. And you're basically measuring the
2 pre-induction to K of the magnetization of the tissue.

3 So you'll see there's two types of -- I'll show
4 this here in a second. There's two types of decay of the
5 signal. Both a net magnetization vector and also as the
6 alignment of the field.

7 So this is called T1 and T2 types of
8 relaxations. Different types of material have different
9 types of characteristics. So T1 weighted images will
10 focus more on gray and white matter. T2 weighted images
11 will have more response from regular tissue, soft tissue
12 and then CSF and then functional MRI will be more a
13 different type of T2 weighted type imaging.

14 So developing contrast, you use a different --
15 this is an example of T1 weighted images. So you have
16 different types of images have different types of
17 characteristics to them, decay characteristics, so gray
18 matter versus CSF.

19 So this is an example of T1 relaxation and T2
20 relaxation. So once you energize these protons, you have
21 a -- you see to the top right, you see that the
22 magnetization is rotating around the Z axis about 90
23 degrees and slowly realigns as it gives off its energy.
24 That's considered T1 relaxation.

25 That's due to the spin lattice contractions of

1 the protons with the surrounding materials. T2
2 relaxation is a de-phasing, which we notice all the
3 magnetic fields are oriented a certain direction and a
4 certain de-phasing over time. And so, you end up with --
5 that's more related to the interactions of the other type
6 of materials that the protons are in.

7 So liquid would be a very long T2 relaxation
8 whereas if it's in the structure tissue, it would be
9 shorter.

10 So this is just some examples of different
11 types of body tissues and their type of relaxation times
12 for gray matter, white matter, muscle, CSF, fat. You see
13 T1 relaxations which are the overall magnetic field
14 change versus the T2 relaxation. So these differences
15 enable you to create the images.

16 So looking at the anatomy of an MR scanner. So
17 you have a supercooled heating coil superconducting
18 magnet which creates the static field, the primary
19 magnetic field. This is the field that causes all the
20 main problems of safety we have. It's always on. The
21 only way to turn it off is to actually remove the
22 supercooling gasses from it. Called quenching. And then
23 you have a number of coils surrounding the core.

24 We have the -- you have here, you have the shim
25 coils, which help unify the magnetic field within the

1 area of interest that you're trying to take your images.
2 And then you have gradient coils which create changes,
3 minor changes within the magnetic field, which allows you
4 to go ahead and determine where you're located within
5 your volume.

6 Then you have some built-in RF coils that go
7 ahead and are your antennas. Some are built in here
8 within the MR scanner, itself, and then some are actually
9 placed around the patient.

10 So this is just another view of the magnet,
11 itself. You have two type of gasses going, helium and
12 nitrogen. Both of them are very cold compared to air.
13 And then you have usually an iron shield around the
14 outside of the magnet, itself, to reduce the magnetic
15 field within the room. The additional shielding we
16 create.

17 So the equipment that you have to have when you
18 have an MR scanner, if you're taking it apart. You've
19 got the magnet, itself. You have the gradient coils
20 which are placed inside the main superconducting magnet
21 and then within that you have the RF coil. So this is
22 basically all built in around here and then right here,
23 this is a separate RF coil that is in here.

24 So this is just, again, looking at the design
25 of an MRI. This is the iron shielding around the MRI,

1 itself.

2 The key thing to remember here is that the
3 entrance to the core is where you have all of your forces
4 coming in and out. You do a gas map of the magnet,
5 primarily you have most of your magnetic forces coming
6 down your core.

7 So you have the gradient coils. Those are the
8 switching coils that cause the -- allows the magnet to --
9 or MRI to go ahead and determine where you are taking
10 your images from. X, Y and Z gradients. And so, they
11 switch back and forth to allow the, very quickly, to
12 allow the processing to determine where it's receiving
13 the -- changing the, slightly changing the magnetic
14 field. It changes the frequency slightly so it allows
15 you to determine exactly where within the body you are
16 acquiring your images.

17 This is just a Siemens 3T magnet. Some of
18 things they talk about is the maximum gradient two per
19 axis. This is the change from the X, Y and Z direction,
20 40MT tesla per meter. You are changing this over time.
21 They do switching gradient rates. So this is the slew
22 rate. And then they also talk about the homogeneity of
23 the display or show the volume of the area that you're
24 looking for a nice, uniform magnetic field so you have an
25 equivalent resonant frequency in that area.

1 So looking at the MR safety. The primary
2 concerns are static -- are due to the static magnetic
3 field. There's also concerns of time varying RF and
4 magnetic fields. Time varying magnetic fields and the RF
5 pulses; the cryogenics and the acoustic noise.

6 So this was a video. Let me see if I can play
7 it directly from -- no. Okay. Well, it was working.

8 (Video Played)

9 JAMES FUTCH: These guys have basically a toe
10 strap attached to a crescent wrench and it's on the
11 force gauge measuring how hard it's pulling. That's
12 the magnet doing a levitational.

13 MARK SEDDON: As you get closer to the edge or
14 to the magnet, itself, it exponentially affects the
15 magnetic force.

16 JAMES FUTCH: Same thing. A secretarial office
17 chair. And the wooden frame is keeping it from
18 being blown into the magnet. So it's not riding on
19 that frame. It's actually, the magnet is holding
20 that chair in space.

21 MARK SEDDON: So as you get close, the force
22 increases substantially.

23 JAMES FUTCH: It's basically destroying the
24 chair. Upscale.

25 PAUL BURRESS: You know, I am safety director

1 at the magnetic field lab now. Since I gave notice,
2 they gave me another job. And there are magnets
3 there that are 45 tesla, superconducting magnets.
4 The Gauss lines extend out pretty far. And this
5 tends to happen within a hundred Gauss. Within ten
6 Gauss, you have to worry about wiping out credit
7 cards or people's medical implantable devices.
8 Really five gauss the FDA says, but nobody has ever
9 been harmed at five.

10 This happens more than you would think, and
11 luckily, like carts have been pushed right up to the
12 edge of the 100 Gauss line. It's an exponential
13 Gauss increase. So if you move an inch or two
14 further, everything is fine here and all of a
15 sudden, the cart is going to attach itself to the
16 magnet. If somebody is between that object and the
17 magnet, they can't get off. I mean, they're
18 basically crushed to death until you quench the
19 magnet, which is no easy thing.

20 MARK SEDDON: And expensive, too.

21 PAUL BURRESS: And expensive. Not only are you
22 worried about damage to the magnet, but a lot of
23 these superconducting magnets, if you take them
24 down, you might not get them back up. And if you
25 get them back up, they may not be performing the

1 same. So there's a lot of other things besides just
2 the thing getting pulled out of your hand into the
3 magnet to worry about.

4 MARK SEDDON: Yeah. You figure out, a lot of
5 times you have the carts within the room. Most of
6 the rooms now, most of the magnets are actively
7 shielded. So you do end up, you're able to go in
8 with a gauss meter and actually mark on the floor
9 the points that you're safe and not safe for them to
10 use. But it doesn't take much. Once you cross the
11 line, as you say, it will quickly go towards the
12 magnet, itself.

13 You have problems, a lot of folks have problems
14 with the housekeeping people bring in the floor
15 buffers and things of that nature. They get pulled
16 in there and slammed up against the magnet. So
17 it's --

18 MARY HART: How long does it take to shut it,
19 to do the quench process?

20 MARK SEDDON: A quench -- an actual quench --
21 I'll show you a quench here shortly -- a quench is
22 not -- normally what they'll do, unless there's a
23 lot in this situation, they'll go ahead and set up a
24 rig outside the scanner, itself, and attempt to pull
25 the device off, whatever it is off. It's easier to

1 do that than to quench the magnet. Once you quench
2 a magnet, it's down for an extended period of time.

3 MARY HART: I mean, if it were a life and
4 death.

5 MARK SEDDON: Yeah. There's always a big red
6 button that everyone says don't touch in a
7 magnetic -- in an MRI suite. One -- there are --
8 there has been, I had a couple sites where they had
9 a bad switch, so it was self-quenching, which is a
10 problem. And then we had one site where they
11 quenched -- they had a fire in the MRI suite, so the
12 fire department quenched -- tried to quench the
13 magnet, but it froze the vent, so it actually
14 wouldn't fully quench. So that was a problem too.

15 Most of these are designed, sort of a, once you
16 ramp up a magnet, rarely, I mean it's not that
17 common for you to take it down. It's not -- you
18 don't routinely do that.

19 MARY HART: Right. Right.

20 MARK SEDDON: You basically maintain your
21 magnetic field.

22 WILLIAM ATHERTON: She was asking how long does
23 it take.

24 MARY HART: If somebody were stuck between an
25 object and -- how long does it take?

1 MARK SEDDON: A few minutes, I would think.

2 PAUL BURRESS: Yeah, I would think minutes.

3 It's not an easy thing, though. We just got a 12
4 tesla MRI for a college medicine to play with. Not
5 for research. Just to play with. They're not going
6 to use it on humans or anything else. There's 900
7 liters of helium in that thing. It a new low boil
8 off model. Supposedly it doesn't lose much helium.
9 Plus nitrogen.

10 Well, that stuff expands 700 to one when it
11 goes from liquid to gas. So you imagine 900 liters
12 is what? Six drums in a room. Multiply that by 700
13 and then have it do that expansion pretty rapidly.
14 Maintenance techs have been killed, I know,
15 servicing MR machines.

16 But all that quench goes through a duct to the
17 outdoors. And I think all the newer units, the
18 building code and fire code probably have covered
19 this now. But it's a lot of noise and there will be
20 a lot of condensation that will look like your
21 building's on fire. You have to do it. You have to
22 do it. But it's -- I mean, it's going to be an
23 event that people will notice. There's a lot of
24 energy released in a quench.

25 MARK SEDDON: Yeah. This is just another video

1 real quick.

2 (Video Played)

3 MARK SEDDON: You do these types of experiments
4 when you're decommissioning a magnet because you
5 don't want to be messing up a nice, new magnet with
6 pieces going in it. Materials marking up the
7 outside.

8 This is relevant because the one of the
9 first -- I'm sure it's the first one -- a child,
10 exactly. So that is where a lot of the MR safety
11 requirements come from is you had a child killed
12 with an oxygenator just like that.

13 PAUL BURRESS: Any ferrous materials, right,
14 stretchers.

15 MARK SEDDON: Stretchers --

16 PAUL BURRESS: Oxygen cylinders.

17 EFSTRATIOS LAGOUTARIS: I think it was in
18 Jacksonville we had a police officer who went in
19 with her child.

20 JAMES FUTCH: Wouldn't take her gun off.

21 EFSTRATIOS LAGOUTARIS: She forgot and the gun
22 came out of the holster and went off and everything.

23 JAMES FUTCH: There's some other videos like
24 that. They had something that was attached and they
25 ended up stuck to the side of the magnet until they

1 could get them off.

2 MARK SEDDON: I just took the two videos.

3 (Alberto Tineo Leaves the Meeting)

4 EFSTRATIOS LAGOUTARIS: The oxygen tank one, I
5 remember that. I think that occurred in New York,
6 wasn't it? I was a resident not too far from there.

7 MARK SEDDON: So a six-year-old boy died in the
8 New York area when a metal oxygen tank flew across
9 the room crushing the child to death. So this
10 caused an FDA advisory, safety advisory to go out on
11 MR safety.

12 I think, like you're saying, I think service
13 people have been injured in the past. I think this
14 is one of the first ones that got kind of national
15 news where a patient was killed.

16 MARY HART: What year was that?

17 JAMES FUTCH: Not that long ago.

18 MARK SEDDON: It wasn't that long ago.

19 JAMES FUTCH: The anesthesiologist was doing a
20 procedure and basically had to have oxygen --
21 something was happening with the patient and the
22 supply of oxygen to the room was not working. So he
23 sent one or two nurses to go find some oxygen. And
24 while they were off looking, another -- I think a
25 nurse who was not associated with any of this, heard

1 the anesthesiologist calling for oxygen and pulled a
2 tank out of a closet across the hall and walked into
3 the room with it and didn't get too far before that
4 happened.

5 MARK SEDDON: So now, because this is on
6 everyone's conscience, everyone is very aware of it,
7 of the oxygen situation. So everything you have in
8 an MR suite environment is labeled as MR safe and
9 oxygen tanks are labeled MR safe and color coded.
10 So that they really focus on. That was one of the
11 main concerns.

12 Anything could be a potential projectile.
13 Anything that's ferromagnetic will be attracted to a
14 scanner. A projectile. The larger the material,
15 the bigger the forces as you saw from that previous
16 video. The wrench versus the chair, there's a huge
17 difference in force applied. And that the magnetic
18 field does extend beyond the core, itself. So it
19 doesn't take much. I think it showed, the second
20 video, it was the oxygen, the oxygen canister was
21 sitting at the end of the table without a problem
22 until they shifted it a couple centimeters forward
23 and then the next thing you know, it flew into the
24 magnet.

25 These are some examples of the more common

1 things that people have go flying. Your cell
2 phones, keys, glasses. Most of the smaller stuff,
3 generally what happens is, they will go into the
4 magnet and get stuck to the side of the magnet so
5 it's not as visually arresting as some of the bigger
6 items that we saw there. But these are all probably
7 more common and we see them a lot. Especially when
8 I go in to do the MR imaging testing and I see all
9 these artifacts is because usually a bobby pin or
10 something stuck on the inside of the magnet or the
11 table because it didn't get caught when they entered
12 the scanner.

13 So the larger objects, chairs, IV pole, there's
14 another one that's very common. There's some
15 pictures.

16 So the static field is one of the main
17 concerns, but there's also the biological factor,
18 the radio frequency pulse. Because even though it's
19 non-ionizing radiation, it is still an energy that
20 you're depositing on the body. So that energy gives
21 up heat. A lot of times they're talking about SAR,
22 the specific absorption rate, which is the amount of
23 energy dissipated within the body per unit mass and
24 time. That's related to the magnetic field
25 strength.

1 So, you know, as you're saying, you guys have a
2 12 tesla magnet you said? So, I mean, 1.5 is what
3 we normally see. We see more SAR concerns when we
4 start talking about the 3 tesla magnets in the
5 clinical environment.

6 So the SARRS, the rate which the RF energy is
7 coupled into tissues. The units are watts/kg. And
8 it's basically, you're providing energy to the
9 tissue and it's causing a change in temperature.
10 And it's calculated by the scanners, themselves.
11 The scanners will give you warnings when you're
12 exceeding certain amounts of SAR points.

13 The limit for the body on average is .4
14 watts/kg. 3.2 is the limit for the head. That's a
15 comparative. It shows you some comparative values
16 there.

17 So the FDA SAR limits. So the body average is
18 .4 watts/kg. Peak for any gram of tissue is 8
19 watts/kg. Then the head average is 3.2 watts/kg.
20 All the manufacturers now have built-in safety,
21 especially the 3 tesla systems, that will stop you
22 or give you warnings if you start exceeding the FDA
23 limits.

24 This is just some more. Those limits are based
25 upon increase in temperature within different parts

1 of the body.

2 And so your head, 38 degrees Celsius. Trunk,
3 39 degrees and so on. And they do make exceptions
4 when you have certain patients. You can put ice on
5 them and stuff like that.

6 The other, thermal safety of the patient. Some
7 of the resonant circuitry within the scanner,
8 itself, and the coil and the leads, you can get some
9 induced current within those things that cause them
10 to heat up. So conductive materials should be
11 removed from the patient. The leads should be
12 covered with the cold compress or ice packs. Any
13 loops, including your arms and legs, you don't want
14 to cross them in the MRI. You could potentially
15 create a conductive loop which will again cause some
16 heating.

17 And so, this is something that Stacy, some of
18 them, most of the MR techs are trained on to best
19 position the patients properly, positioning your
20 coils and leads properly.

21 Something else, you're looking at static field
22 versus time variant fields, magnetic fields. Static
23 fields, besides the projectiles, this could cause a
24 torque on implanted objects like clips or heart
25 valves. You could also, even for non-ferrous

1 materials due to the lens forces, when you move
2 those lens -- when you move those materials in a
3 magnetic field, you could still create an emulsion
4 induction, which cause an opposing magnetic force.
5 And so, even though it's, quote, "non-ferrous
6 material" that's an implant, you still have to move
7 those patients slowly in and out of the magnet. You
8 don't want to stick them up there and race through
9 there, put them on the table and throw them on
10 there.

11 The varying magnetic fields also induce
12 currents. Any metals or wires, implanted devices,
13 would be like any of your neuro stimulators or
14 pacing wires, things like that, would also be --
15 have current induced within them from the body of
16 the various magnetic fields.

17 All your implanted devices are screened to
18 determine their safety from static varying fields.
19 The one website -- almost everyone I think
20 universally uses the MRIsafety.com. Fred Shellock
21 is one of the main characters in the MR safety world
22 and Kanal is the other one.

23 They both have really good websites and they
24 comparatively tested almost everything that's out
25 there and you look up their website to determine --

1 put in what is the device that's implanted and they
2 will tell you what the contraindications are as far
3 as whether you can record or not.

4 There are also concerns with piercings or drug
5 delivery patches or tattoos. You can have some,
6 also some heating because of the metal content of
7 those types of items.

8 The other safety concern is with regards to
9 cryogenics. They say, you know, you have nitrogen and
10 helium, both of them are liquid in very cold
11 temperatures. If you are quenching the magnet, you
12 will be releasing that amount of liquid cold
13 material to your current temperature which will
14 cause them to boil rapidly and violently, so all the
15 air within the magnet room, itself, would be
16 released.

17 So most of these doors open into the room so
18 you have to have a breakout window to be able to go
19 out, the patient and the people in the room to get
20 out, if necessary. But the temperatures are
21 extremely cold; will burn flesh on contact.

22 And let's see if we can get this video to show
23 a quench.

24 (Video Played)

25 MARY HART: Is that within a van?

1 MARK SEDDON: This, I believe, is in a van.

2 So you can imagine if that escape valve clogs
3 up or doesn't work function properly, you're going
4 to have all that gas released into the room, your
5 pressure goes super high very fast.

6 (Video Played)

7 MARK SEDDON: They show it slowly dropping the
8 chair.

9 WILLIAM ATHERTON: Does the pipe still freeze
10 and crack?

11 MARK SEDDON: Yeah. In fact, it actually froze
12 up inside the middle of the hospital. So it froze
13 all this up and it didn't fully quench, which was a
14 big safety concern for us because it wasn't that
15 old. It was a 3 tesla magnet, so it wasn't that
16 old. So we had to go back to the vendor and ask for
17 an explanation.

18 It was a fire within the room, itself. Like in
19 the lining. Up in the ceiling. So the fire
20 department came in.

21 REBECCA McFADDEN: They quenched it?

22 MARK SEDDON: They quenched it. They said it
23 had to be quenched before they would go in.

24 REBECCA McFADDEN: Because they are, like,
25 fully loaded.

1 MARK SEDDON: Yeah. You're trying to reduce
2 your -- they try to reduce your artifacts. RF
3 artifacts.

4 Okay. So that's a quench. That was pretty
5 quick. And then we have a couple other safety
6 things.

7 So the other safety issue is with regards to
8 the noise. So the activation of the gradient fields
9 produce significant noise from the radiant coils.
10 So it has been shown to produce some hearing
11 impairment; potentially could produce permanent
12 damage, although it is still less than the OSHA
13 standard. So their current recommendation that all
14 patients undergoing a MR procedure in a hypo system,
15 which would be like 1.5 or 3 tesla, they have the
16 ear plugs that provide 30 decibel suppression
17 rating.

18 All right. So the last couple years, you've
19 seen a lot of formalization of MR safety
20 requirements from the ACR; from the Joint
21 Commission. The ACR accredits the majority of the
22 MR scanners out there. They put into place the
23 requirement that these MR safety policies that are
24 out there that are available on site, they are
25 reviewed annually are in place.

1 For example, setting up site access
2 restrictions. Different MR zones, 1, 2, 3, 4.
3 Documented training and education for all personnel
4 that work in the environment. Patient, non-patient
5 MR personnel are screened. Basically anyone who
6 could enter the scanner, itself, are to fill out a
7 questionnaire to determine if they have any implants
8 or any reason to be concerned.

9 And then policies on the quenching, cryogen
10 safety. Acoustic noise. Pregnant patients;
11 pediatric patients. Thermal burns. Device and
12 object screening.

13 Most of these sites will have a giant magnet.
14 They actually confirm that all items coming,
15 potentially could go into the magnet are checked.
16 So they have a method by which they're designating
17 MR safe or MR conditional status.

18 Any incidents or adverse events are required to
19 be reported to be the FDA. Again, this is something
20 that now is a requirement, so every site is checked
21 who are part of the ACR. The Joint Commission, as
22 of last year, they require that there's an MR safety
23 program that focuses on patients who may experience
24 claustrophobia.

25 This is why a lot of quad patients who have MR

1 done in the hospitals are done under sedation
2 because of the -- it's not as bad as it used to be,
3 but the staff has sedation for them. That they
4 have -- there's a safety -- with patients who may
5 have urgent emergent care, patients with implants or
6 devices -- safety policies regarding the
7 ferromagnetic objects into the MR environment and
8 acoustic noise.

9 So the hospitals are required to restrict
10 access to anybody not trained in MR safety and/or
11 screened by the staff to make sure these restricted
12 areas are controlled and under direct supervision
13 and have proper postings.

14 The postings are required from the Joint
15 Commission now that the signs should all say the
16 magnet is always on. And so I think I've got some
17 signage here to show.

18 So the FDA guidance is that the controlled
19 access area should be labeled danger, high magnetic
20 field at all entries. So they used to be old signs
21 saying "warning". It has to be "danger" now. So
22 those are the signs you should have up there.
23 Basically to reinforce the fact the magnet is always
24 on. You don't want a warning, you want a danger
25 sign.

1 MARY HART: You mentioned pregnant women. Is
2 there any known effect or it's just an avoidance of
3 potential?

4 MARK SEDDON: Actually, I'm going to talk about
5 that in a second.

6 Pregnant patients, there's been no -- no
7 studies have shown an effect on pregnant women or
8 the fetuses. However, theoretically, you do see a
9 tissue effect when you've been through a magnetic
10 field like that, so it does make a difference. So
11 the recommendation is that, you know, try to defer
12 from an MR in the first trimester and looking at the
13 risk benefit. That's the ACOG -- I think FDA has a
14 recommendation; ACOG has a recommendation; so does
15 the ACR.

16 The main thing that for -- in a safety
17 environment is that the MR technologists are the
18 gate keepers and they are controlling everything.
19 It is a very -- it's almost like an industrial
20 device that's in a medical environment. And so,
21 they are basically making sure no one is entering
22 the magnet because the magnet is always on.

23 They do -- what we do now is talk about MR
24 safety zones. Sorry this is kind of hard to read.

25 There's four zones. Zone IV is actually inside

1 the MR suite, itself. Zone III is the area just
2 outside that suite. Like your holding area. And
3 then Zone I is just everywhere outside. Zone II is
4 kind of the in-between.

5 So as you go from Zone I to Zone IV, you have
6 tighter restrictions on access control. You have
7 your requirement that everyone entering Zone III and
8 Zone IV, they have screening performed; education.
9 They're not being intended -- or not being
10 accompanied.

11 So Zone II is generally the area like your
12 waiting area, your -- where your technologists are
13 actually talking to them about safety; things like
14 that.

15 So we have most of those signs are up now.
16 Zone I, II, III, IV. Again, like I said, Zone III
17 is we start warning them that this is a restricted
18 access. Zone III should be a locked area. Screened
19 patients and personnel are only allowed in that
20 area. And then for Zone IV, that should be in the
21 scanner area. That should always be under direct
22 supervision and locked when not in use.

23 So regarding pregnant workers and pregnant
24 patients. So some of the -- most of the current
25 data out there on pregnant workers has not seen any

1 type of effect or change with pregnant
2 technologists. So their recommendation is that
3 there is no adjustment for a pregnant MR
4 technologist, unlike sometimes in some of the other
5 areas, the radiation, we have corrective practices
6 for that. We don't have anything like that for MR.

7 When it comes to the pregnant patients, the FDA
8 says that if the information would be beneficial,
9 then it's acceptable. But in light of the high risk
10 for pregnant patients in general, they prefer to
11 delay MR until after the first trimester. That's
12 the FDA statement. ACOG says it's reviewed on a
13 case-by-case basis. There's no known biological
14 effects have been observed in research that I'm
15 aware of that, although mechanisms could cause
16 adverse effects.

17 And I believe that was, that was it.

18 So that's sort of a quick-and-dirty overview of
19 MR physics.

20 JAMES FUTCH: Thank you.

21 RANDY SCHENKMAN, CHAIRPERSON: Any questions
22 for Mark?

23 JAMES FUTCH: Keep us on the schedule. The
24 equation at the beginning, right? The Larmor
25 equation.

1 (Applause)

2 JAMES FUTCH: This is, Mark, if I remember
3 right, you took this from your in-house training
4 that you do for your --

5 MARK SEDDON: Correct. So this is some of the
6 in-house training that we do for all the staff who
7 work in MR Level I, Level II training. We also --
8 we have an intraoperative MR suite which is in the
9 OR. There's a lot of extra training that has to go
10 on to make sure everyone is aware what they can and
11 cannot bring in. So we got through, not the physics
12 part so much because that's, they don't really want
13 to hear about that usually. But all the safety part
14 of it. They want to see that, you know, the -- well
15 primarily, the static field concerns. That's the
16 primary thing we're concerned about.

17 But for the technologists, they have to be
18 aware of additional issues with regards to the
19 varying gradient fields and the SAR issues with
20 regards to patients.

21 JAMES FUTCH: And SAR limits it to .4 watts/kg.
22 It looks like that comes from the same safety
23 standards that guides things like the cell phones
24 and it's all based on the body's ability to get rid
25 of excess heat without temperature rise.

1 When you look at events that have happened, the
2 child in the New York is like the one everybody
3 remembers. But if you look at FDA device experience
4 network, you'll see instances of patients with
5 improper test leads. Usually someone who can't feel
6 anything who, you know, they picked up the RFU and
7 then put the leads on the patient and then
8 discovered -- and then saw the burn.

9 MARK SEDDON: Yeah. Things fairly, I don't
10 want to say common, but it does happen. So we do
11 see a lot of issues where questions are raised about
12 leads that you can't remove or broken leads and
13 patients with very similar neuro stimulating
14 devices.

15 That had it and how to handle those. I know
16 some of the folks who maybe clinically do it. Maybe
17 you guys may have come across those more frequently.

18 JAMES FUTCH: In the ionizing world, I think
19 we're used to controlling things to the level of
20 stochastic effects. We're trying to prevent an
21 increased rate of chance of any cancer later in
22 life. No so much the cumulative effects. This is
23 like the opposite. There are definitive acute
24 effects that occur and have occurred.

25 MARK SEDDON: Exigent radiation would be like

1 skin doses.

2 PAUL BURRESS: During maintenance, there's
3 other hazards. Helium wants to go straight up.
4 Like you said, it's lighter than air. And most
5 rooms are designed like this with a drop ceiling and
6 the exhaust fans are at the drop ceiling. They will
7 handle that if it's a slow leak. But like, during
8 maintenance, helium can pool up there. So if you
9 have a maintenance worker go up above the dropped
10 ceiling and it's not ventilated and there's no holes
11 in it, if it's a sealed floor above or roof above,
12 they can get asphyxiated up there. So it could
13 become an oxygen-deficient atmosphere.

14 Nitrogen mixes with air pretty readily. When
15 it's cold, it will sink and it can pool out in bays
16 or holes in the floor. As it warms up, it will tend
17 to dissipate. But it's things to watch. So you
18 have to watch the areas above and below.

19 I don't know, we've seen that. If it's a
20 catastrophic failure, you're going to see the
21 condensation. The moisture in the air is going to
22 freeze and you're going to see the white cloud. So
23 it's not like you really have to worry about a
24 catastrophic release and nobody noticing it during
25 normal operation. But during maintenance, I'd watch

1 the areas above and below. Maybe check them with O2
2 meters or something. That's the only other hazards
3 I've seen around magnets.

4 KATHY DROTAR: You make more of a case for
5 having properly trained people in place for when
6 these exams are done.

7 MARK SEDDON: Right. Yes. So, you know, I
8 think that goes back to being, besides being the
9 technical expert, the technical expert on actually
10 how to --

11 KATHY DROTAR: Yeah.

12 MARK SEDDON: -- because it's a completely
13 different type of science than what we do in x-ray.
14 So understanding spin echo sequences and all that
15 part of it is completely different. But the fact is
16 the MR technologist is the gatekeeper in that
17 environment. They are the ultimate person who
18 screens every single patient and makes sure everyone
19 is educated, so they have to be educated and have
20 the knowledge to do it.

21 KATHY DROTAR: And like you said, people not --
22 the other people outside of the technologists can't
23 go beyond a certain point. And even if it's
24 something that's needed, an oxygen canister or clip
25 board that's going to -- it could have a, not a good

1 outcome.

2 MARK SEDDON: Yeah. Housekeeping tends to be
3 one of the common -- in a hospital environment at
4 least -- usually it's housekeeping where you have a
5 problem with them taking buckets and brooms and
6 things of that nature into the scanner room.
7 Because, like I said, usually you can go in and if
8 it's a 1.5 tesla magnet, the forces are not quite as
9 strong, unless you get really close to the magnet,
10 itself. So they can go in and go around the
11 peripheral and they do kind of this balancing act
12 where they go around the peripheral around the room
13 and clean up the room.

14 If they go into a 3 tesla magnet, they aren't
15 aware there's a difference in the strengths.

16 KATHY DROTAR: Yeah. And if you think about
17 the number of people that may forget, technologists
18 that forget to remove a necklace when you're doing a
19 chest x-ray, and oh, okay. You might have to repeat
20 the film. But now something, an artifact gets left
21 on, and you're heating it up and burning the patient
22 or having it magnetized.

23 MARK SEDDON: Yeah.

24 JAMES FUTCH: So I know it's getting a little
25 bit to the middle part of the afternoon. Is there

1 any discussion -- any direction that the council
2 wants to go in, hold off until next meeting or say
3 something today or --

4 ARMAND COGNETTA: I mean, the public perception
5 is that MR is probably in the radiation, in the
6 imaging field; so therefore, if there's any kind of
7 catastrophe, I think they're going to look to this
8 department and so, you know, if there isn't any, I
9 mean, is this the only state around that does --

10 JAMES FUTCH: By no means, because my own two
11 cents on this is, these technologies, especially
12 this one, non-ionizing, but MR is like the last, the
13 last non-ionizing technology that kind of became in
14 widespread use outside of research in the 1980s, the
15 early 1980, mid 1980s, and this law, you know, was
16 enacted in '78. And by then, I think the regulatory
17 philosophy, in general, it started kind of moving
18 away from let's regulate it to let's kind of let
19 them -- the private sector kind of figure out
20 everything.

21 For whatever reason, whatever your theory is,
22 it kind of came along last. And it was completely
23 different from ionizing. So none of the ionizing
24 protections in the laws; things like that, would
25 really help this much at all.

1 So you've had insurance reimbursing parts of
2 the world through the accrediting agencies, kind of
3 coming at it from the back side. Saying, you know,
4 someone needs to make sure these things are looked
5 at. That works from the hospitals, I guess, fairly
6 well. The smaller facilities that are outside that
7 environment, maybe not so well.

8 PAUL BURRESS: There's some building code, fire
9 code protections, too, that are built in for some of
10 these issues that we're talking about that aren't
11 patient related. They do get inspected. I don't
12 exactly know what the legal requirements are versus
13 what we institute, you know, when we cited the MRI.
14 But there was a lot that the architects and
15 engineers had to learn before they --

16 MARK SEDDON: Outpatient based versus inpatient
17 based have different coding requirements.

18 PAUL BURRESS: And the manufacturers have it
19 almost turn key. They will tell you what systems
20 you need to put it in safely and operate it safely.
21 But the oversight, I think, is in the fire, it's in
22 the life safety world, what the fire departments are
23 right now. So that can vary by county.

24 MARK SEDDON: I think the gatekeeper is still
25 the technologist who's actually operating the

1 system. That's really --

2 PAUL BURRESS: For operations.

3 JAMES FUTCH: Or the non-technologist nurse who
4 was walking by and heard the anesthesiologist call
5 for oxygen and did what he said and went and got
6 oxygen and brought it back and just didn't know as
7 much about how the cylinder will work in that
8 environment.

9 MARK SEDDON: We have an intraoperative system,
10 so as you know, in the OR, the nurses are used to
11 just kind of cutting through rooms. So there was a
12 whole change in the philosophy for that area to make
13 sure they're aware that in one room, you know,
14 there's all these extra things you have to worry
15 about because you constantly have things in their
16 gowns and, you know, projectiles you have to be
17 aware of.

18 PAUL BURRESS: What about a metal detector
19 scanning patients? Is that pinned down anywhere?

20 MARK SEDDON: They don't recommend using
21 because of their efficiency is reduced in a magnetic
22 environment so I've seen that as a concern.

23 PAUL BURRESS: You can prescreen before in the
24 waiting room, though, away from --

25 MARK SEDDON: Way far away.

1 JAMES FUTCH: I mean, obviously, this is really
2 different. It seems to me when I was looking at
3 this three years ago, I had more people telling me
4 what they do is they do a survey and they ask. And
5 then they gave some examples of situations that
6 didn't always work so well. You may not remember or
7 no, you know, be able to respond appropriately. Oh,
8 yeah. I forgot.

9 And then there was a category of people who had
10 granulators and clips and a number of things done a
11 long time ago and didn't know what the material was
12 and how it would react. If there was a question on
13 whether or not there was something inside, most of
14 them said they would x-ray and look for something.
15 A particular kind of thing that -- if there was a
16 question. Not just randomly x-ray somebody, if
17 there was a question about something.

18 RANDY SCHENKMAN, CHAIRPERSON: The other thing
19 is when your patients are coming in on stretchers
20 and aren't capable of going, you know, through a
21 metal detector, it's obviously going to be positive
22 or in wheelchairs; things like that. That becomes
23 an issue as well, especially hospital-based stuff.

24 KATHY DROTAR: If you have a patient that
25 codes, you've got to get them out of the MR room.

1 You can't do anything in there.

2 MARK SEDDON: Right.

3 KATHY DROTAR: And you know --

4 MARY HART: Is that being trained to -- I
5 should know this part. Are they trained to take the
6 patient out if they code rather than calling the
7 code?

8 KATHY DROTAR: Anybody that I've talked to
9 that's in MR, that's their standard protocol is to
10 remove the patient from the room. You can't bring
11 your cart in.

12 MARY HART: That alone, that seems like there
13 should be a regulation between --

14 REBECCA McFADDEN: They do have MRI-approved
15 things that you could, code carts and all of that.
16 But they are so expensive, it's not even --

17 MARY HART: Well, also people would run into --

18 REBECCA McFADDEN: Also, if you swap anything
19 out, you have to have everything -- the code carts
20 have to be completely changed out. If any of the
21 locks are broken. So I mean, the best practice is
22 to undock them and get them straight out of the
23 room.

24 MARK SEDDON: If you do a sedation, you're
25 required to have a code cart in the area. That's a

1 requirement. Like I said, generally, it's a
2 specific one that's MR safe.

3 REBECCA McFADDEN: Right.

4 MARK SEDDON: The scope, the policy or
5 practice, every site has is to remove the patient
6 from the room immediately.

7 REBECCA McFADDEN: Yeah.

8 MARK SEDDON: It's not so much the cart,
9 itself. It's the fact the response team coming in
10 -- they don't --

11 REBECCA McFADDEN: Yes. Everything.

12 KATHY DROTAR: Go ahead.

13 MARY HART: So is the question whether there
14 should be a motion, when you said do it now or wait?

15 JAMES FUTCH: Let me go back to the statute.
16 There's no requirement to do anything at all yet
17 today. Let me see if I can bring it back up.

18 MARY HART: I mean, it makes sense to me at
19 least.

20 REBECCA McFADDEN: I think we all agree this is
21 a --

22 MARY HART: A need.

23 REBECCA McFADDEN: -- there is a safety risk.

24 MARY HART: What is the process?

25 MATTHEW WALSER: What's the best step to go

1 next, go forward?

2 JAMES FUTCH: Let me throw this up here. Not
3 required to be registered. 3-8 laser, supposedly.

4 So this is the Council shall part: Make
5 recommendations on matters relating to the practice
6 of radiologic technology, matters relating to
7 radiation protection. And so both of those touch
8 this from the standpoint of, you know, most of the
9 country considers this to be part of the practice of
10 radiology technology. It involves radiation
11 protection, for all kinds of reasons we were talking
12 about before that Mark just described. Physical
13 hazards and the other stuff.

14 And then study the utilization of MR and make
15 recommendations to the department or the person
16 appropriate to conduct such procedures and minimum
17 qualifications for each.

18 So in my head, it's those three things, or
19 maybe it's two things if you want to look at it.
20 Are there hazards that need to be dealt with through
21 radiation protection mechanisms, and are there --
22 does the Council have any thoughts on the subject of
23 the personnel appropriate to conduct these
24 procedures.

25 So those could be motions, but I don't know if

1 we're to the point where you want to say anything
2 yet.

3 MARY HART: I think something needs to be --

4 JAMES FUTCH: You could agree, you could agree
5 that, yes, medical MR, you know, is the practice of
6 radiologic technology. Personnel appropriate to
7 conduct it would be people who are certified in MR
8 and by one of the national registries. And could --
9 that would be one thing.

10 You could say persons operating this and the
11 devices on the patients need to use appropriate
12 radiation protection mechanisms to deal with the
13 hazards that were discussed by Mark. Some of which
14 are, you had some organizations which you cited.

15 MARK SEDDON: ACR, FDA.

16 JAMES FUTCH: You could always agree with ACR's
17 recommendations.

18 RANDY SCHENKMAN, CHAIRPERSON: But it wouldn't
19 be exactly radiation protection. It would be the
20 recommendation by those groups specifically for
21 this. It's not the radiation control, it's --

22 REBECCA McFADDEN: So the motion could possibly
23 be that the Office of Radiation Control recognized
24 magnetic resonance imaging as, you know, to be
25 governed under the auspices of radiation protection

1 or, I mean, because, like you said, it's not really
2 anywhere. You have to first get it where it needs
3 to be and then start.

4 JAMES FUTCH: I think you should start out
5 first by just dealing with what this says and is
6 there or is there not a recommendation that, what
7 kind of personnel are appropriate and is there a
8 hazard. Actually, is there a hazard and is there
9 personnel appropriate.

10 REBECCA McFADDEN: Right. So could we motion
11 that MRI is a hazard?

12 KATHY DROTAR: Recommendation.

13 RANDY SCHENKMAN, CHAIRPERSON: MRI has hazards
14 and the appropriate people are those that are
15 certified by national societies.

16 JAMES FUTCH: How does that sound?

17 KATHY DROTAR: Are recognized national
18 certification -- boards.

19 KELLY NESMITH: More than AART.

20 JAMES FUTCH: I don't think we've gotten to
21 that point.

22 KATHY DROTAR: The what?

23 KELLY NESMITH: There's another registry for
24 MRI?

25 KATHY DROTAR: Yes, there is.

1 PATRICIA DYCUS: So why don't you say
2 qualifying?

3 KATHY DROTAR: Couldn't we just make the
4 recommendation that we look for -- that based on our
5 conversations today, that there is a need for
6 further investigation of the hazards involved and
7 the agencies that would provide the guidance between
8 now and the next meeting?

9 JAMES FUTCH: Sure.

10 MARY HART: I don't know. It seems like
11 another six months waiting to make a recommendation.

12 REBECCA McFADDEN: We all agree now.

13 ARMAND COGNETTA: In order to assure patient
14 safety, qualified personnel, which would include
15 those who have done a national, you know, safety --
16 in order -- I mean, they should start out, in order
17 to assure patient safety, only individuals who are
18 nationally recognized -- is it --

19 STACY LOWE: Certified.

20 ARMAND COGNETTA: Nationally certified in the
21 use of MR should be allowed to operate.

22 REBECCA McFADDEN: Operate.

23 KATHY DROTAR: Is there wording already that we
24 could parallel off of for, about who's registered?

25 PATRICIA DYCUS: Well, the RA, you did

1 something similar to that. In the qualifying,
2 qualifying organization.

3 JAMES FUTCH: Yeah. We've recognized AART and
4 NTCB for, already for other purposes for radiation
5 personnel on the ionizing side. Actually,
6 previously we had recognized the AART for MR. You
7 can go back to, you know, you could say, well, you
8 know, what you had before was what you wanted. You
9 had --

10 RANDY SCHENKMAN, CHAIRPERSON: But now we also
11 have ACR. We have --

12 JAMES FUTCH: For the transmission. For the
13 facilities side of what you're talking about.

14 MARK SEDDON: One issue to think about.
15 There's been a -- because of the new joint
16 Commission and ACR requirements, there's now, quote,
17 "certifications in MR safety". So you may --
18 devil's advocate -- you may have the debate that,
19 well, is there a difference between an MR
20 technologist certification for the medical practice
21 versus MR safety certification for somebody who is a
22 gatekeeper.

23 MATTHEW WALSER: Or both.

24 MARK SEDDON: Or both, exactly. Or how much of
25 MR safety is incorporated within the certification

1 for the MR technology. I don't know that.

2 MATTHEW WALSER: How many national -- how many
3 certifying groups are there nationally?

4 REBECCA McFADDEN: Well, I mean, the AART and
5 the ASRT. But AART is the American registry.

6 STACY LOWE: The society.

7 KATHY DROTAR: ASRT would develop the
8 curriculum for MRI and JRC would -- has a
9 standardized program that you can register.

10 REBECCA McFADDEN: And the JRC -- so where does
11 the AART fit into that? Because, I mean, that's the
12 American Registry, or radiologic technology, which
13 is recognizing magnetic resonance imaging.

14 KATHY DROTAR: They are the certifying board
15 for technologists and ASRT is planning to develop a
16 curriculum that you would use for the program.

17 REBECCA McFADDEN: So the AART is certifying
18 the technologist. And wouldn't that be enough to
19 require that the technologist performing the exams
20 are AART certified in order to complete those -- I
21 mean, that would be the safest possibility as far as
22 what you recommend.

23 RANDY SCHENKMAN, CHAIRPERSON: You said there's
24 another certification.

25 JAMES FUTCH: Yeah, there's more than one

1 national MR registry.

2 KATHY DROTAR: Isn't there a recent --

3 KELLY NESMITH: It's like a separate MRI, a MRI
4 registry.

5 JAMES FUTCH: Let's back up because I know we
6 have some folks that have to leave at some point.
7 We have some other material. Perhaps we can agree
8 on a motion that at least addresses the issue,
9 something like -- feel free to jump in.

10 The Council believes that there are definitive
11 physical hazards associated with the magnetic
12 resonance imaging operation, which warrant
13 appropriate radiation protection measures. Too
14 vague?

15 Rita, do you want to read that back?

16 (Reporter complied with above)

17 RANDY SCHENKMAN, CHAIRPERSON: Not radiation.

18 JAMES FUTCH: So we would say -- sorry, go
19 ahead.

20 MARY HART: MRI safety.

21 EFSTRATIOS LAGOUTARIS: Or patient safety.

22 JAMES FUTCH: Appropriate safety.

23 RANDY SCHENKMAN, CHAIRPERSON: Patient safety
24 measures.

25 MARK SEDDON: Patient safety measures.

1 MARY HART: And training.

2 EFSTRATIOS LAGOUTARIS: Or training and
3 certification.

4 ARMAND COGNETTA: Requiring training and
5 certification.

6 JAMES FUTCH: So what Rita said before, except
7 instead of radiation protection, we're saying
8 patient --

9 MATTHEW WALSER: Safety measures.

10 JAMES FUTCH: Safety protective measures.

11 That's just the first half of it. Okay. And
12 that addresses all the physical hazards. And
13 then --

14 ARMAND COGNETTA: Which require -- which --

15 JAMES FUTCH: And also feels that these -- that
16 one way to address these.

17 ARMAND COGNETTA: Can be addressed by the use
18 of.

19 JAMES FUTCH: Can be addressed by the use of --

20 ARMAND COGNETTA: National --

21 REBECCA McFADDEN: Nationally recognized.

22 RANDY SCHENKMAN, CHAIRPERSON: Nationally
23 certified.

24 REBECCA McFADDEN: Certified.

25 JAMES FUTCH: MRI.

1 REBECCA McFADDEN: MRI operators.

2 JAMES FUTCH: Okay. I think we understand the
3 motion.

4 KATHY DROTAR: Can she read it back?

5 JAMES FUTCH: Rita, can you read that one more
6 time.

7 (Reporter Complied with Above)

8 JAMES FUTCH: The Council believes there are
9 definitive hazards associated with the MRI
10 environment is that what we said? I'm trying to
11 write --

12 KATHY DROTAR: That's good.

13 MARY HART: Which requires protective measures
14 for patient safety.

15 REBECCA McFADDEN: Magnetic resonance.

16 MARY HART: Which requires protective measures
17 for patient safety.

18 JAMES FUTCH: Which require --

19 MARY HART: Protective measures for patient
20 safety.

21 BRIAN BIRKY: Does it have to be patient
22 safety? Can it just be safety?

23 MARY HART: And operator safety.

24 REBECCA McFADDEN: Environment.

25 ARMAND COGNETTA: Patient operational safety.

1 MARK SEDDON: Operational standards.

2 JAMES FUTCH: So are we including --

3 RANDY SCHENKMAN, CHAIRPERSON: And operational
4 safety.

5 JAMES FUTCH: Operator?

6 RANDY SCHENKMAN, CHAIRPERSON: Operational.

7 MARK SEDDON: Because that would include
8 housekeeping and other folks who wander in.

9 ARMAND COGNETTA: Which is best addressed by --

10 MARY HART: National certification.

11 ARMAND COGNETTA: Licensure.

12 PATRICIA DYCUS: That doesn't say what they're
13 licensed in.

14 MARY HART: Operation.

15 RANDY SCHENKMAN, CHAIRPERSON: They have to be
16 certified nationally. MR nationally.

17 KELLY NESMITH: Are you going to address -- are
18 we taking the national certifications or just the
19 one?

20 MARY HART: I would say by --

21 ARMAND COGNETTA: With specific MR --

22 KATHY DROTAR: With specific --

23 RANDY SCHENKMAN, CHAIRPERSON: Specifically MR
24 certified or licensed personnel.

25 MARY HART: By the use of. It should say

1 operators who are certified. Use of personnel.

2 MARK SEDDON: I know the ACR has
3 grandfathering --

4 PATRICIA DYCUS: Are requiring --

5 KATHY DROTAR: Who does?

6 MARK SEDDON: ACR. They have certification.
7 They also have, if you have so many years of
8 experience.

9 KATHY DROTAR: Not for, not so much for
10 technologists because it's going to be the number of
11 exams that you've done and getting the sixteen
12 hours, so --

13 RANDY SCHENKMAN, CHAIRPERSON: But that's how
14 they get certified, right? They can't be certified
15 without that.

16 MARY HART: Right.

17 ARMAND COGNETTA: As met by and then you can
18 say and continuing --

19 MARK SEDDON: So the way it works for the ACR
20 is that initial qualifications are ART, AR MRIT --

21 RANDY SCHENKMAN, CHAIRPERSON: ARMRIT.

22 MARK SEDDON: ARMRIT, yeah. Registered as an
23 ARMRIT technologist or ART registered and six months
24 supervised MRI clinical experience or Associate's
25 degree in allied health and certification in the

1 clinical imaging field which is NMTCB or ARDMS.

2 MARY HART: Can you make a footnote to that
3 effect? Asterisk?

4 MARK SEDDON: Maybe an asterisk.

5 MARY HART: Footnote what that certification
6 refers to.

7 JAMES FUTCH: Just a second.

8 MARK SEDDON: They are pretty specific on what
9 they say. And six months of experience. The ACR
10 recommends -- but they do say they recommend they're
11 certified, but they do say these are the minimum
12 requirements. Canadian.

13 JAMES FUTCH: Sorry, guys. Just a second.
14 Microsoft has taken control.

15 BRENDA ANDREWS: Can you get back to what you
16 typed?

17 JAMES FUTCH: I'm trying. See how it says it's
18 not responding? I love the title it suggested.

19 (Laughter)

20 JAMES FUTCH: Okay.

21 RANDY SCHENKMAN, CHAIRPERSON: There we go.

22 JAMES FUTCH: We're back.

23 MATTHEW WALSER: What about up on the second
24 line, which require unique protective measures. Or
25 does that make a difference?

1 JAMES FUTCH: I don't -- we'll keep it, I think
2 we're better to keep it somewhat general.

3 Shall we say national or just licensed
4 personnel?

5 MARY HART: Well, are there other licenses that
6 might be floating around?

7 MATTHEW WALSER: Nationally recognized.

8 MARY HART: Yeah, nationally recognized
9 certification and licensing. Nationally recognized
10 certification and licensure. But requiring the use
11 of personnel still bothers me. It's like a passive
12 way to say you want personnel who are trained in --

13 JAMES FUTCH: Just say national registry.

14 KATHY DROTAR: Yeah.

15 JAMES FUTCH: Say national registry.

16 MARY HART: Nationally recognized certification
17 and licensure.

18 REBECCA McFADDEN: There you go.

19 RANDY SCHENKMAN, CHAIRPERSON: And after
20 operational safety, you might want to put a period
21 and say this is best addressed.

22 MARY HART: Yeah. Is that too vague? Should
23 you say operators should be certified and licensed?

24 RANDY SCHENKMAN, CHAIRPERSON: Personnel or
25 just technologists? Are there other personnel

1 that --

2 JAMES FUTCH: I could say technologists.

3 RANDY SCHENKMAN, CHAIRPERSON: -- that do this?

4 I mean --

5 KATHY DROTAR: Under the --

6 KELLY NESMITH: Well, licensed practitioners,
7 wouldn't they be --

8 MARY HART: Yeah, that's good.

9 KATHY DROTAR: Or RAs.

10 MARK SEDDON: Well, for ACR, they have limited
11 to technologists --

12 KATHY DROTAR: And RAs.

13 MARK SEDDON: -- RAs, Associates or Bachelor
14 degree in allied health field with certification.

15 RANDY SCHENKMAN, CHAIRPERSON: Just leave it as
16 personnel.

17 MARK SEDDON: Yeah, personnel.

18 RANDY SCHENKMAN, CHAIRPERSON: I think that's
19 better.

20 MARK SEDDON: Or they give a final one that
21 you've performed an MRI or licensed since 1996.

22 JAMES FUTCH: You don't want all the personnel
23 to be certified. You just want people operating it,
24 right?

25 MARK SEDDON: Correct.

1 RANDY SCHENKMAN, CHAIRPERSON: Anybody have
2 anything else to add to this?

3 MARY HART: I have a degree in English writing,
4 by the way, my undergraduate.

5 JAMES FUTCH: Fix it.

6 MARY HART: Okay. This is best addressed by
7 requiring the use of personnel. You never said what
8 you're requiring them for in the sentence before, so
9 the second sentence has to be changed. So this,
10 instead of saying this is best addressed by
11 requiring the use of personnel --

12 KATHY DROTAR: MR safety is best --

13 EFSTRATIOS LAGOUTARIS: This goal is best
14 addressed by requiring --

15 JAMES FUTCH: Situation.

16 MATTHEW WALSER: To insure maximum patient
17 safety.

18 ARMAND COGNETTA: Maximum patient safety.

19 MARY HART: That's a great way to put it. To
20 insure maximum patient safety.

21 ARMAND COGNETTA: Optimal patient safety.

22 MARY HART: Yeah. There you go. There you go.
23 That's perfect.

24 JAMES FUTCH: I should say shall or should?

25 MARY HART: Should be certified. There you go.

1 EFSTRATIOS LAGOUTARIS: Should be required.

2 KATHY DROTAR: Should be required.

3 MARY HART: Yes, should be required.

4 RANDY SCHENKMAN, CHAIRPERSON: Required to
5 be --

6 MARY HART: Just be certified.

7 RANDY SCHENKMAN, CHAIRPERSON: Licensed by a
8 nationally recognized --

9 MARY HART: Certified and/or licensed.

10 RANDY SCHENKMAN, CHAIRPERSON: Should be
11 required.

12 MARY HART: There you go.

13 RANDY SCHENKMAN, CHAIRPERSON: To be certified.

14 MARY HART: And/or.

15 RANDY SCHENKMAN, CHAIRPERSON: And/or licensed.

16 JAMES FUTCH: What terminology are we using?

17 BRENDA ANDREWS: Shall. If it's a requirement,
18 it must be shall.

19 KATHY DROTAR: Shall be.

20 BRENDA ANDREWS: You have to say shall be
21 certified.

22 WILLIAM ATHERTON: Shall be required.

23 KATHY DROTAR: Shall be certified.

24 JAMES FUTCH: We're back to this.

25 RANDY SCHENKMAN, CHAIRPERSON: Shall be

1 certified.

2 PATRICIA DYCUS: And licensed because doesn't
3 the state license them and the organization
4 certifies them?

5 KELLY NESMITH: We don't license them.

6 PATRICIA DYCUS: Well, no, but --

7 JAMES FUTCH: I think we covered both of them
8 and said and.

9 RANDY SCHENKMAN, CHAIRPERSON: Okay. That
10 sounds good.

11 So can we make this motion? Everybody in
12 favor, say aye.

13 ALL: Aye.

14 RANDY SCHENKMAN, CHAIRPERSON: Wait, we need a
15 second first.

16 MATTHEW WALSER: I second it.

17 RANDY SCHENKMAN, CHAIRPERSON: Everybody in
18 favor, say aye.

19 ALL: Aye.

20 RANDY SCHENKMAN, CHAIRPERSON: Anybody opposed?

21 (No Response)

22 RANDY SCHENKMAN, CHAIRPERSON: Okay. So we're
23 going to make this motion.

24 JAMES FUTCH: Thank you. I'll try and save
25 this. Hold on a minute. Take a picture. All

1 right.

2 Now, I have a few more things.

3 RANDY SCHENKMAN, CHAIRPERSON: Okay. Now we
4 need to go on to our administrative items. So in
5 your handout, we have the bylaws.

6 Would you like to take over?

7 BRENDA ANDREWS: The reason we're bringing the
8 bylaws up to date are two reasons. The first one,
9 we looked at the bylaws and saw under Article V,
10 regarding meetings, there was Number 2 that says the
11 year shall begin October 1 and September 30th. And
12 I couldn't find anywhere in the statute that
13 referred to the year beginning in October 1st and
14 really didn't know why. This was put in the bylaws
15 at some point in time.

16 So we wanted to bring that back up before the
17 committee today, the council today to see if you
18 want to change that to either the fiscal year or a
19 calendar year. One that falls more in line with the
20 state calendar or fiscal year.

21 ARMAND COGNETTA: What makes more sense to you?

22 BRENDA ANDREWS: Well, the fiscal year is from
23 July 1st until June 30th. Of course, you know the
24 calendar year.

25 WILLIAM ATHERTON: Is there a problem with the

1 way it is now?

2 BRENDA ANDREWS: It doesn't coincide with our
3 year. So it's kind of --

4 WILLIAM ATHERTON: It does create problems.

5 ARMAND COGNETTA: It creates a problem.

6 BRENDA ANDREWS: When we have to do our annual
7 reports --

8 JAMES FUTCH: Annual reports.

9 BRENDA ANDREWS: -- the annual reports, they
10 are based on a fiscal year.

11 EFSTRATIOS LAGOUTARIS: May I ask a question?

12 BRENDA ANDREWS: Yes.

13 EFSTRATIOS LAGOUTARIS: If we convert
14 appointing members, is that what we're talking
15 about, appointing or making the Board coincide with
16 the fiscal year of the state?

17 BRENDA ANDREWS: The meetings when we meet.
18 This is under Article V for the meetings.

19 EFSTRATIOS LAGOUTARIS: Okay. There are two
20 meetings a year. Okay. I misunderstood. Okay.

21 BRENDA ANDREWS: So this is really saying the
22 year for the meetings is between October 1st and
23 September 30th.

24 For our annual reporting, that's fairly new.
25 We've been doing that for the past, maybe a year

1 now. They've developed a process of us reporting
2 out what's going on with the year. How many
3 meetings we have in a year. Our goals for the year;
4 those kind of things. And that's based on the
5 fiscal year.

6 MARY HART: So that would be due in June,
7 basically? Since your fiscal year ends in June?

8 BRENDA ANDREWS: It ends in June. We do one, I
9 think it's December, and then another one in June.

10 MARY HART: So I'll motion to change the
11 meeting year from July 1 through June 30th.

12 EFSTRATIOS LAGOUTARIS: I second.

13 RANDY SCHENKMAN, CHAIRPERSON: Okay. Anybody
14 have any discussion on it?

15 (No Response)

16 RANDY SCHENKMAN, CHAIRPERSON: So everybody in
17 favor, say aye.

18 ALL: Aye.

19 RANDY SCHENKMAN, CHAIRPERSON: Anybody opposed?

20 (No Response)

21 RANDY SCHENKMAN, CHAIRPERSON: Okay. So that
22 motion passes.

23 BRENDA ANDREWS: Okay. And because it's also
24 states in the bylaws that for voting on the chairman
25 and vice chairman person, it should be done every

1 year and we really haven't addressed this before
2 now.

3 The last voting was in 2013. So on the agenda
4 today, we were supposed to vote again for a new
5 chairperson and vice-chairperson. We planned to do
6 that, but the other thing is we want to address
7 that. Do you want to continue doing this every
8 year, or do you want to change the bylaws to meet
9 the term a person is in, which is three years? And
10 then we won't have to do this every year; instead,
11 it would be every three years before you vote again.

12 MARY HART: It makes sense. What do the people
13 who hold the position say?

14 JAMES FUTCH: Are you happy where you are?

15 RANDY SCHENKMAN, CHAIRPERSON: I'm happy where
16 I am. Are you happy where you are? If you guys are
17 happy with us.

18 MARY HART: Right. But I mean, you want it to
19 be a three-year term? It makes sense.

20 RANDY SCHENKMAN, CHAIRPERSON: I tell you what
21 my thoughts are. I think that if you have to change
22 it for, potentially change it every year, I think
23 it's going to be a lot more disruptive to the
24 committee.

25 KATHY DROTAR: Yeah.

1 WILLIAM ATHERTON: Also, there's only two
2 meetings a year.

3 MARY HART: Right.

4 WILLIAM ATHERTON: There's only six meetings.

5 ARMAND COGNETTA: There should be some overlap
6 in case something happens.

7 REBECCA McFADDEN: Ten years?

8 (Laughter)

9 REBECCA McFADDEN: Do you guys want to serve as
10 the chair and vice-chair? That's what we'll make
11 it.

12 WILLIAM ATHERTON: Until impeached.

13 (Laughter)

14 RANDY SCHENKMAN, CHAIRPERSON: We're in
15 trouble.

16 MARY HART: Or step down.

17 JAMES FUTCH: What do we do at that point?

18 RANDY SCHENKMAN, CHAIRPERSON: So what
19 discussion does anybody want to have on this?

20 KATHY DROTAR: So we would be changing when the
21 person's elected, they would then serve for a
22 three-year term, is that what we're saying?

23 RANDY SCHENKMAN, CHAIRPERSON: And then they
24 would come up for reelection or elect somebody else.

25 WILLIAM ATHERTON: I so move.

1 KATHY DROTAR: I second.

2 RANDY SCHENKMAN, CHAIRPERSON: Okay. Should we
3 vote on this? Anybody have any discussion before
4 that?

5 (No Response)

6 RANDY SCHENKMAN, CHAIRPERSON: Okay. So let's
7 vote. Everybody in favor, say aye.

8 ALL: Aye.

9 RANDY SCHENKMAN, CHAIRPERSON: Anybody opposed?

10 (No Response)

11 RANDY SCHENKMAN, CHAIRPERSON: So it will be a
12 three-year term.

13 KATHY DROTAR: Welcome back for three years.

14 JAMES FUTCH: Yeah, I was just going to say.

15 BRENDA ANDREWS: That's the first part of it.

16 Now we have to still do a vote because it's already
17 been three years.

18 KATHY DROTAR: Oh, okay.

19 RANDY SCHENKMAN, CHAIRPERSON: Because the last
20 was, last was 2013.

21 BRENDA ANDREWS: September 2013.

22 RANDY SCHENKMAN, CHAIRPERSON: Is there anyone
23 else who would like to --

24 MARY HART: -- run for election?

25 RANDY SCHENKMAN, CHAIRPERSON: Be chairman or

1 Vice Chairman before we vote on the two of us?

2 WILLIAM ATHERTON: I move to keep the current
3 leadership.

4 KATHY DROTAR: I second.

5 REBECCA McFADDEN: I second.

6 JAMES FUTCH: Third and fourth if I could.

7 KATHY DROTAR: We'll just go around the room.

8 RANDY SCHENKMAN, CHAIRPERSON: Okay. Does
9 anybody have any discussion on it?

10 (No Response)

11 RANDY SCHENKMAN, CHAIRPERSON: Okay. So let's
12 vote. Everybody in favor of keeping the current
13 leadership, say aye.

14 ALL: Aye.

15 RANDY SCHENKMAN, CHAIRPERSON: Anybody opposed,
16 say nay.

17 (No Response)

18 RANDY SCHENKMAN, CHAIRPERSON: Okay.

19 KATHY DROTAR: Thank you.

20 RANDY SCHENKMAN, CHAIRPERSON: We're here for
21 three more years.

22 KATHY DROTAR: Thank you both.

23 BRENDA ANDREWS: Thank you for that.

24 STACY LOWE: I hope they were all that easy.

25 RANDY SCHENKMAN, CHAIRPERSON: That's because

1 you know us already.

2 MARY HART: Inexpensive campaign. You should
3 teach the federal leadership.

4 KATHY DROTAR: Not one negative word.

5 RANDY SCHENKMAN, CHAIRPERSON: Okay. Brenda,
6 is there anything else in the bylaws?

7 BRENDA ANDREWS: Well, we wanted to talk
8 about -- no, in the bylaws, no. That was -- those
9 were the two main pieces.

10 RANDY SCHENKMAN, CHAIRPERSON: Next was the
11 goTravel.

12 BRENDA ANDREWS: Kathy Drotar and I did a
13 little demo with the goTravel because this was a
14 very confusing process to begin with.

15 When we started out, we couldn't get all the
16 members' names put in. And I started out sending
17 e-mails to some of you to go in and do your travel
18 or sign in, and there were complications. I'm not
19 sure if all the kinks are worked out for everybody
20 right now, but everybody's names have been included
21 in the goTravel system with your e-mail addresses as
22 the one that I have for you.

23 So if there are -- if any of those e-mails need
24 to change that I have for you, that will be the
25 first thing that needs to happen. And if that's not

1 case, we won't try this again until it's time for
2 the next meeting.

3 But Kathy and I went through a little demo last
4 week where I prepared a travel authorization for
5 her -- it was a dummy travel authorization, it
6 wasn't a real one -- and I submitted it to her and I
7 asked her to tell me what she sees.

8 The problem I have was, the DOH travel is
9 different from people that are outside of DOH. So
10 what they see might have been different from what
11 you see when you pull it up. Because everything is
12 pulled from PeopleFirst and the supervisors are
13 already in there. For instance, James' supervisor's
14 name would have automatically gone in based on all
15 of his information from PeopleFirst. But for people
16 outside of DOH, we had to program everything. So
17 for you, it was programmed based on your e-mail
18 addresses, and all of your mailing addresses;
19 information that I have.

20 Also, Janet Cooksey, which most of you
21 remember, is set up as your supervisor, because it
22 has to go -- flow through somebody to approve it on
23 DOH's end.

24 So it sounds a little bit confusing, but once
25 it starts to flow, it is really a simpler system

1 than what we're having to do right now with the
2 paper. So Kathy helped me. I sent a dummy travel
3 authorization to her; she responded back.

4 So Kathy, when you got it, you saw -- I'm
5 sorry, I don't have screen shots because this was
6 done very quickly for me at the end. But you saw a
7 screen that came up to show you your --

8 KATHY DROTAR: Password and log in name. User
9 name and password.

10 BRENDA ANDREWS: And ironically, that's the
11 same screen that we see. So you all will see the
12 same one that we see. So when that screen comes up,
13 if I send you an authorization, you're going to get
14 an e-mail that says, do not reply. But there's a
15 link in that e-mail that you will click on. So when
16 you click on the link in that e-mail, it is going to
17 take you to the goTravel system.

18 Once you get to the goTravel system, a screen
19 will shoot up that says, user name and password.

20 Now, when you -- since you did not -- had not
21 signed in --

22 KATHY DROTAR: Right.

23 BRENDA ANDREWS: And you put in your user name,
24 which was your e-mail address?

25 KATHY DROTAR: No, it wasn't. It was my

1 credentials and I typed in K and it auto populated.

2 BRENDA ANDREWS: Really?

3 KATHY DROTAR: Yeah. I didn't know what it was
4 going to be so I just hit K. That part came up
5 and -- but I didn't know a password. So I went to
6 forgot password, and then it sent me the link to
7 reset it. It gave me a code to put in. And you
8 have the link to go to site and then put in the code
9 name and then I could go back in and reset the
10 password and do it that way.

11 BRENDA ANDREWS: Okay. Did you not see
12 something that said to sign up or register?

13 KATHY DROTAR: No, uhn-uhn.

14 BRENDA ANDREWS: Okay. That's helpful to me.

15 WILLIAM ATHERTON: I got the same -- I got as
16 far -- I didn't get as far as she did. I got to the
17 screen that said user name and password and then I
18 was stumped.

19 BRENDA ANDREWS: Did you put anything in there?

20 WILLIAM ATHERTON: I put my e-mail address, but
21 I didn't have a password.

22 BRENDA ANDREWS: But you put a K and it
23 pre-populated? What did it populate for you?

24 KATHY DROTAR: I think it was Kathleen M.
25 Drotar, RTDMEDTRNT.

1 BRENDA ANDREWS: Okay.

2 KATHY DROTAR: Which I would like to change
3 because I never remember.

4 JAMES FUTCH: Now that I think of it, that was
5 probably the last one.

6 BRENDA ANDREWS: What I'll need to do is ask
7 goTravel where you're pulling their user names from.

8 KATHY DROTAR: I think it was my name, the way
9 it populates.

10 JAMES FUTCH: It populates on the reports that
11 you're giving them. Her full name --

12 BRENDA ANDREWS: But what I had to give them
13 was your name, everyone's names, their e-mail
14 addresses, and your address and your Social Security
15 numbers. So that was the information that was
16 provided to them.

17 In the booklet where we went through training,
18 it said that the e-mail addresses was what will be
19 used as user names. So you're saying that's not the
20 case. So I need to get with goTravel again and say,
21 where are you pulling their user names from because
22 now I have no idea what your user names will wind up
23 being.

24 KATHY DROTAR: That and if that's case
25 sensitive or something or needs a period or comma,

1 I'm done for.

2 WILLIAM ATHERTON: Then
3 what is the password supposed to be?

4 BRENDA ANDREWS: What she's saying is that you
5 click forgot password, and then it's going to send
6 you another e-mail with a link to go in and change
7 it.

8 WILLIAM ATHERTON: Okay.

9 BRENDA ANDREWS: So technically, I guess you
10 don't have a password.

11 KATHY DROTAR: It was sort of like a
12 registration. It recognized you as a user name, but
13 then you had to register by going to the other link,
14 without them saying that that's what you were doing,
15 and create your password once you got the code.

16 BRENDA ANDREWS: Okay. Then once you got the
17 code and you changed -- you did your password, it's
18 not giving you an opportunity to change your user
19 name at that point.

20 KATHY DROTAR: No.

21 BRENDA ANDREWS: The user name is whatever came
22 up. Then you put in the new password that you
23 created.

24 Are there any security questions that it asks
25 you at that point?

1 KATHY DROTAR: I think it did. It asked you
2 for a security question when you changed your user
3 name.

4 BRENDA ANDREWS: Once you got there.

5 KATHY DROTAR: Yeah.

6 BRENDA ANDREWS: Okay. So I'm learning this
7 system as well. This has been a little bit
8 confusing for all of us because when they started
9 the system, they had not worked out all the kinks.

10 JAMES FUTCH: No, really?

11 BRENDA ANDREWS: I pray -- hope you bear with
12 me until we get this done. In the meantime, you
13 will see on your desk that I did paper travel for
14 you like we've been doing in the past.

15 RANDY SCHENKMAN, CHAIRPERSON: Right.

16 BRENDA ANDREWS: Because I had to have you
17 authorized to travel. What I will do when I go
18 back, I will check on some things as far as your
19 passwords. Would you prefer that being your e-mail
20 address as your passwords? That be would be the
21 easiest.

22 REBECCA McFADDEN: Yeah, as our user name.

23 BRENDA ANDREWS: I mean user name. Okay. I'll
24 see if they can change all of that. It may take
25 another five months, like it did to get everybody's

1 name in, but --

2 REBECCA McFADDEN: Maybe it pulled your name on
3 your Social. Did it do that?

4 KATHY DROTAR: No. It didn't reference my
5 Social at all. But once I got in, it very nicely
6 populated where I was traveling from and to and had
7 the mileage there.

8 REBECCA McFADDEN: Nice.

9 BRENDA ANDREWS: See, that's on my end. Just
10 like I prepared the paper for you all, I will go in,
11 I will prepare all the -- I do all the research, you
12 know, as far as flights and do all the estimates and
13 all that kind of thing. Most of the times it's
14 still going to be estimates. It may not be exact as
15 far as, like, an air fare for you or you. And
16 mileage is usually pretty much on target because I
17 use the Google Maps and all of that.

18 So it's still going to be an estimate, even
19 though it's your authorization. So unless there's
20 something, like, really outlandish that I've done in
21 there that's completely wrong, you would go in and
22 accept that. And once you accept that, then it
23 moves to the next person, which is Janet.

24 Janet will approve it, unless she sees
25 something that's outlandish that I've done. If she

1 sees something that's outlandish, when she rejects
2 it, it comes straight back to me. So if you see it
3 coming back to you again, that means up the line
4 somewhere, it got rejected and I have to fix
5 something in it and then send it back to you. So
6 don't be surprised if you see it coming back again
7 for whatever reason.

8 But there would be notes in there where you can
9 see what happened. Because any time it's rejected,
10 someone has to say why it's rejected. And that's
11 the other thing. If you see something on it,
12 whenever I send it to you, and you want to reject it
13 and say, Brenda, this was not -- you got my address
14 wrong or you did something incorrect or my mileage
15 is not right, you would put that in notes any time
16 you have to reject it. I don't think you can
17 actually even send it back to me until you put a
18 note in there, because it requires that. So you
19 will tell me why. I would fix that and send it back
20 to you.

21 So as soon as we get all the kinks worked out,
22 I think it's really going to be a nice system
23 because it's clean. No paper's involved.
24 Everything gets attached. I scan everything in and
25 it's attached. PDF files are attached to it so all

1 the attachments are there. So it's really -- it
2 really is a nice system once we get going with it.

3 But I couldn't figure out what was going on on
4 your end, and Kathy help me with that.

5 JAMES FUTCH: So Brenda, are they in the same
6 boat we are? In that, before we can travel, it has
7 to be approved?

8 BRENDA ANDREWS: Correct.

9 JAMES FUTCH: You can't go back afterwards and
10 pretend we approved it. Not that that ever
11 happened.

12 BRENDA ANDREWS: No. As a matter of fact, this
13 is probably more important that we do it ahead, in
14 front because now you have an electronic record of
15 when it was done. You can't -- it's not a piece of
16 paper where you can, you know, go back and, which
17 God forbid.

18 JAMES FUTCH: I never backdated a signature in
19 my life.

20 BRENDA ANDREWS: Who does that? But, yes,
21 there's a date stamp, time stamp on it now when it's
22 done and when it's signed.

23 WILLIAM ATHERTON: So for this time, we're
24 supposed to send you the paperwork and do it online?

25 BRENDA ANDREWS: Uhn-uhn. For this time, I

1 just completely do the way we were doing. Most of
2 you weren't even in the system for me to do it, so I
3 refused to do half of you in the system and half of
4 you on paper. I told them I'm going to do the
5 council meeting this time on paper and then the next
6 time around, I think we'll be okay with the
7 electronic ones. So I will --

8 WILLIAM ATHERTON: It be all be done before we
9 come to the meeting.

10 BRENDA ANDREWS: Yes. You'll get your travel
11 authorization prior to that.

12 Then the other part of that is the
13 reimbursement, it's also done electronically. So
14 that's the end that you normally see on paper as
15 well as you get your JA. You may not see that
16 again. Once I type it up, I don't think you ever
17 see that again. But you will see it now because
18 you'll have to go in and electronically sign that as
19 well.

20 KATHY DROTAR: I was going to say electronic
21 signatures is going to be accepted?

22 BRENDA ANDREWS: Exactly. Just like the
23 authorization, you'll go in and type your name in
24 and then that will be your authorization for it.
25 And I will send out notes on -- I'll send you guys

1 e-mails to let you know the step-by-step because I
2 know this can be a little bit confusing trying to
3 explain it without any screen shots.

4 I will send you step-by-step instructions based
5 on Kathy helping me and what you see on your end, so
6 we should be successful the next time around we have
7 to do this.

8 But in the meantime, you have your paper forms.
9 And if any of you want to sign and give me anything
10 back today, you can do that. I have an envelope
11 there for you to mail me back your receipts. So you
12 can either hold on to everything or you can give me
13 back your signature pieces and mail your receipts
14 back in to me whenever you get them.

15 MARY HART: Do you need the gas receipts if
16 we're only getting the mileage?

17 BRENDA ANDREWS: No.

18 MARY HART: Okay. All right.

19 BRENDA ANDREWS: No, I do not. Thank you for
20 asking that. Any questions?

21 REBECCA McFADDEN: I put in the mileage.

22 BRENDA ANDREWS: Pardon me?

23 REBECCA McFADDEN: I filled in the mileage, but
24 it doesn't matter. You're going to do from wherever
25 we live, I guess, to here or does it matter?

1 Because it wasn't highlighted.

2 BRENDA ANDREWS: I have to see what you did.

3 REBECCA McFADDEN: On the worksheet, you didn't
4 highlight the section for mileage. It's just the
5 time I started and time I ended.

6 BRENDA ANDREWS: Your mileage was in there.

7 REBECCA McFADDEN: I did fill it in. It wasn't
8 highlighted.

9 BRENDA ANDREWS: It's probably going to be the
10 same, the standard from your point of headquarters,
11 which if any of you need to change your point of
12 headquarters that I have for you, it's going to
13 either be your work address -- most times it's your
14 work address. So if it needs to be a different
15 address, then I need to know that.

16 So I use the Google Map. So it's pretty much
17 going to be standard. Anything that's outside of
18 what you put on there that I don't have, will be
19 vicinity mileage. So you'll get reimbursed for the
20 full mileage.

21 REBECCA McFADDEN: We should just e-mail you
22 any address changes?

23 BRENDA ANDREWS: Yes, definitely do that. Any
24 change in address, e-mail address, phone numbers,
25 definitely do keep a roster of everybody's

1 information. So I do need to have changes if you
2 have any.

3 Any questions?

4 MARK SEDDON: We're doing car -- you're
5 assuming we're doing car rentals?

6 BRENDA ANDREWS: Pardon me?

7 MARK SEDDON: You're assuming we're doing car
8 rentals?

9 BRENDA ANDREWS: The reason you see car rental
10 on there is because we have a form that's called
11 POV, personal -- privately owned vehicle. And
12 there's a formula on there. And if it's comes out
13 where a rental car and I -- that's a guess because I
14 have to figure out a rental car in your area.
15 There's a lot of research that goes into doing your
16 travel. I have to actually go into --

17 RANDY SCHENKMAN, CHAIRPERSON: Is it easier to
18 give you the receipts?

19 BRENDA ANDREWS: Yeah, that's after the fact.
20 But all this stuff has to go through with the
21 authorization. It's a ton of work to do beforehand.

22 The reason it says rental car, because rental
23 car came out cheaper than driving your personal
24 automobile. So if you drove your personal
25 automobile -- and Becky, we talked about that one.

1 REBECCA McFADDEN: Yes.

2 BRENDA ANDREWS: You know, you e-mailed about
3 that. Just let me know that that was done because
4 I'll have to figure out a reason. They don't like
5 reasons like, because it saved time or because it
6 was the -- would be able to make the meeting if they
7 rented a car. So I usually have to figure up
8 something that will justify you driving your car,
9 and I usually do so. Don't worry about it.

10 MARK SEDDON: I never really noticed it before.

11 BRENDA ANDREWS: Okay.

12 RANDY SCHENKMAN, CHAIRPERSON: Anybody else
13 have any questions on this? Okay.

14 So let's go on to old business. Is there
15 anything in old business?

16 BRENDA ANDREWS: Anything you all thought of
17 from last time that you didn't get answers on?

18 JAMES FUTCH: Last chance, Paul.

19 PAUL BURRESS: No old business. All concluded.

20 RANDY SCHENKMAN, CHAIRPERSON: Okay. Then
21 let's figure out the next meeting, date and
22 location.

23 JAMES FUTCH: If we do October, is that what
24 we're looking at?

25 BRENDA ANDREWS: I got the September calendar

1 in the packets and October.

2 JAMES FUTCH: September would be the 19th.
3 Excuse me, the 20th or the 27th. Actually, the 27th
4 is somewhat problematic. We have a whole operation
5 going on in Tampa.

6 KATHY DROTAR: That's the same week as Astro.

7 JAMES FUTCH: So for September 13th or 20th,
8 then we jump ahead into October.

9 Any big meetings other than Astro to avoid?
10 All the professional associations that you're all
11 part of? September 20th, is that too late?

12 RANDY SCHENKMAN, CHAIRPERSON: September 20th
13 seems to be good for everybody? Yes?

14 MARY HART: Yes.

15 KATHY DROTAR: September 20th.

16 RANDY SCHENKMAN, CHAIRPERSON: Okay. So let's
17 put in for September 20th. If anybody has a
18 problem, and --

19 BRENDA ANDREWS: Just if you do have a problem
20 or something comes up, you can always just e-mail
21 me.

22 WILLIAM ATHERTON: My meeting is the 28th.

23 BRENDA ANDREWS: And where?

24 JAMES FUTCH: Yeah.

25 RANDY SCHENKMAN, CHAIRPERSON: Okay. Where do

1 we want to meet? Do we want to meet here again or
2 do we want to meet back in Orlando? Does anybody
3 any preference?

4 MARY HART: I prefer here.

5 JAMES FUTCH: Now that you know where this is
6 and it's sandwiched between the airport and the rest
7 of Tampa.

8 WILLIAM ATHERTON: My only preference is not to
9 have another shuttle after the airport. But it is
10 not a huge point. It's a small --

11 KATHY DROTAR: A shuttle?

12 WILLIAM ATHERTON: Yeah. We flew in the
13 airport. This is not at the airport. It's five
14 miles away from the airport.

15 RANDY SCHENKMAN, CHAIRPERSON: Yeah. We had to
16 wait for the shuttle and we're going to have to take
17 the shuttle back. So I mean, if we have it here,
18 can we do it at the airport?

19 WILLIAM ATHERTON: At the Marriott.

20 BRENDA ANDREWS: It probably will be better.
21 The reason we didn't do it at the airport this time,
22 just so you know, there's apparently a huge
23 convention going on and all of the hotels just about
24 were booked up. Tampa Airport Marriott was charging
25 200 and something dollars a room and phenomenally

1 higher for the meeting room. So because their
2 rates -- they have a contract with the City. We
3 were not able to use them this time. That may not
4 be the case, apparently, next time. We usually had
5 good luck with them. This is the first time I think
6 we were not able to get them. So if you prefer
7 being at the airport hotel, that's fine.

8 RANDY SCHENKMAN, CHAIRPERSON: Wherever,
9 whichever.

10 JAMES FUTCH: Which city?

11 RANDY SCHENKMAN, CHAIRPERSON: Does anybody
12 have a preference as to the city which is easier for
13 everybody?

14 MARY HART: I like Tampa.

15 EFSTRATIOS LAGOUTARIS: It doesn't matter. By
16 the time you deal with I-4, it's a three-hour drive
17 for me anyway. At least here I get to drive through
18 the Ocala National Forest on the way home and enjoy
19 some scenery.

20 ARMAND COGNETTA: This is closer.

21 BRENDA ANDREWS: The other thing, here, parking
22 is free. I think it's probably easier parking.

23 MARY HART: Yeah, that's true.

24 EFSTRATIOS LAGOUTARIS: Yeah, that's nice.

25 BRENDA ANDREWS: The access to the bathrooms is

1 free. I mean, it's the shorter distance. The
2 Airport Marriott you have to kind of find them. So
3 there's some pros and cons, but it's whatever you
4 all decide.

5 JAMES FUTCH: Quite frankly, I don't know what
6 time -- what time did you leave this morning?

7 RANDY SCHENKMAN, CHAIRPERSON: Eight.

8 JAMES FUTCH: We can avoid the shuttle easily.
9 We have a car and it's right there.

10 WILLIAM ATHERTON: Actually, it's not a huge --
11 it's just a small --

12 JAMES FUTCH: You call me on the cell phone. I
13 can ride and pick you up; you're here.

14 WILLIAM ATHERTON: If it's a problem, then no.
15 If it's going to save you about \$200.

16 BRENDA ANDREWS: Well, the two hundred was just
17 for this time because of the convention going on.
18 The rate here was really a good rate, so --

19 WILLIAM ATHERTON: Very minor consideration.

20 RANDY SCHENKMAN, CHAIRPERSON: Okay. So we'll
21 plan on the 20th and we'll plan on Tampa.

22 BRENDA ANDREWS: Tampa.

23 RANDY SCHENKMAN, CHAIRPERSON: Okay.

24 BRENDA ANDREWS: The first choice is the
25 airport and second choice is this place?

1 RANDY SCHENKMAN, CHAIRPERSON: Well, how about
2 for everybody else? Is this easier for everybody
3 else? Because otherwise, it's just the two of us.

4 PATRICIA DYCUS: I think it's easier.

5 MARY HART: The food is good and I've eaten at
6 that airport. It's terrible.

7 WILLIAM ATHERTON: We'll talk about it.

8 BRENDA ANDREWS: You can get picked up.

9 MARY HART: You pay for parking at the airport.

10 RANDY SCHENKMAN, CHAIRPERSON: Okay. So it's
11 the 20th and it will be here. Good for everybody?

12 MARY HART: Sounds good.

13 RANDY SCHENKMAN, CHAIRPERSON: Okay. So is
14 there anything else that anybody wants to discuss?
15 Otherwise, we will adjourn.

16 (No Response)

17 RANDY SCHENKMAN, CHAIRPERSON: Okay.

18 EFSTRATIOS LAGOUTARIS: Congratulations on your
19 retainment.

20 (Proceedings concluded at 3:03 p.m.)

1 CERTIFICATE OF REPORTER

2 STATE OF FLORIDA:

3 COUNTY OF ORANGE:

4
5 I, RITA G. MEYER, RDR, CRR, CBC, CCP, do hereby
6 certify that I was authorized to and did stenographically
7 report the foregoing proceedings and that the foregoing
8 transcript is a true and correct record of my
9 stenographic notes.

10 I FURTHER CERTIFY that I am not a relative,
11 employee, attorney or counsel of any of the parties, nor
12 am I a relative or employee of any of the parties,
13 attorneys or counsel connected with the action, nor am I
14 financially interested in the outcome of the action.

15 DATED on this 10th day of June 2016.

16
17
18 
19 _____
RITA G. MEYER, RDR, CRR, CBC, CCP

\$	3T [1] 88/17	107/18 161/25
\$200 [1] 162/15	4	accidents [3] 36/14 37/15 37/25
'	404 [2] 53/7 53/10	accompanied [1] 107/10
' 21 [1] 34/25	40MT [1] 88/20	according [1] 71/13
' 78 [1] 114/16	416 [1] 53/5	account [3] 15/4 15/8 18/7
' 88 [2] 20/22 39/24	42.57 [1] 82/13	accounts [1] 15/1
' 98 [1] 20/24	428 [1] 6/25	accredited [1] 31/22
.	43 [1] 59/25	accrediting [1] 115/2
. 25 [1] 68/16	45 [1] 90/3	accredits [1] 103/21
. 4 [3] 98/13 98/18 109/21	468 [1] 20/16	accumulated [1] 63/24
. 5 [1] 80/24	5	accustomed [1] 65/20
0	500 [2] 74/5 74/8	achievable [1] 49/15
009 [1] 60/2	6	ACOG [3] 106/13 106/14 108/12
1	60 [1] 33/23	acoustic [3] 89/5 104/10 105/8
1.5 [7] 81/1 81/18 82/19 83/15 98/2 103/15 113/8	6040-3 [1] 56/8	acquiring [1] 88/16
10 [1] 1/20	63-4 [1] 56/18	ACR [12] 103/20 103/21 104/21 106/15 121/15 124/11 124/16 130/2 130/6 130/19 131/9 133/10
10,000 [1] 81/4	63-5 [1] 57/3	ACR has [1] 130/2
100 [1] 90/12	63.86 [1] 82/20	ACR's [1] 121/16
10th [1] 164/15	6th [1] 6/8	across [3] 95/8 96/2 110/17
11 [1] 57/15	7	act [1] 113/11
11:11 [1] 55/16	700 [2] 93/10 93/12	action [2] 164/13 164/14
11:25 [1] 55/17	75 [1] 34/11	activation [1] 103/8
11:54 [1] 78/18	8	actively [1] 91/6
12 [2] 93/3 98/2	80s [1] 41/2	actual [2] 34/5 91/20
120 [1] 33/24	9	actually [50] 8/2 10/6 10/15 12/13 13/16 18/2 19/16 21/20 22/6 22/10 22/10 22/11 25/25 26/15 28/14 29/8 29/18 29/25 30/13 30/17 41/13 44/2 59/3 59/19 61/25 62/11 64/13 65/21 70/5 74/19 81/22 81/25 86/21 87/8 89/19 91/8 92/13 102/11 104/14 106/4 106/25 107/13 112/9 115/25 122/8 124/5 152/17 157/16 159/3 162/10
12th [1] 17/24	9-11 [1] 57/15	acute [1] 110/23
13th [1] 159/7	90 [1] 85/22	adapt [1] 56/22
17 [1] 60/7	90-degree [1] 84/14	adapting [1] 56/9
1978 [1] 20/15	900 [2] 93/6 93/11	add [3] 24/22 84/3 134/2
1980 [1] 114/15	90s [1] 31/10	added [3] 20/18 51/17 51/18
1980s [4] 39/16 42/6 114/14 114/15	A	adding [1] 24/17
1989 [1] 30/25	a.m [4] 1/20 55/16 55/17 78/18	addition [3] 33/8 46/6 80/10
1996 [1] 133/21	AART [14] 26/17 32/13 34/6 35/4 45/5 45/23 122/19 124/3 124/6 125/4 125/5 125/11 125/17 125/20	additional [3] 20/18 87/15 109/18
1997 [1] 31/3	ability [3] 42/23 58/8 109/24	address [15] 15/19 127/16 129/17 140/6 146/24 147/20 148/14 150/20 152/13 156/13 156/14 156/15 156/22 156/24 156/24
19th [1] 159/2	ABIM [1] 2/11	addressed [8] 127/17 127/19 129/9 132/21 134/6 134/10 134/14 140/1
1:10 [1] 78/19	able [12] 19/15 21/19 41/18 43/20 52/24 60/25 91/7 101/18 117/7 158/6 161/3 161/6	addresses [8] 17/17 126/8 127/12 144/21 145/18 145/18 148/14 148/18
1:30 [1] 77/24	ABNM [1] 2/11	adjourn [1] 163/15
1st [3] 137/13 137/23 138/22	about [113] 8/11 9/12 9/23 10/1 10/3 12/6 16/6 16/14 17/9 18/2 19/12 20/1 21/21 21/22 23/4 25/14 25/17 27/20 29/18 30/5 30/24 37/9 37/18 39/11 39/15 39/25 41/4 41/7 41/12 42/20 43/14 44/14 45/11 45/13 46/18 46/23 48/16 49/12 49/17 49/22 49/24 50/2 52/9 52/16 52/17 52/25 53/14 53/15 54/25 54/25 55/19 55/25 56/2 56/5 56/17 56/23 58/17 59/6 59/18 60/24 62/9 63/3 63/3 63/9 64/15 65/18 67/8 69/2 69/14 71/18 72/24 76/6 77/2 77/4 77/6 79/15 80/25 82/23 85/22 88/18 88/22 90/6 90/22 91/3 97/21 98/4 106/4 106/23 107/13 109/13 109/16 110/11 111/23 113/16 115/10 116/7 116/15 116/18 117/17 120/12 123/24 124/13 124/14 131/23 138/15 144/8 157/25 158/2 158/9 160/23 162/15 163/1 163/7	adjustment [1] 108/3
2	above [7] 111/9 111/11 111/11 111/18 112/1 126/16 128/7	Administration [1] 24/4
200 [1] 160/25	absorption [1] 97/22	administrative [2] 51/20 137/4
2005 [1] 20/25	accept [4] 6/9 43/21 151/22 151/22	administrator [1] 70/6
2009 [1] 62/16	acceptable [1] 108/9	adopt [1] 25/23
2011 [1] 60/5	accepted [2] 7/9 154/21	adopted [2] 28/11 73/12
2012 [3] 27/22 32/19 46/24	accepting [1] 11/16	adopting [1] 57/7
2013 [5] 27/25 44/3 140/3 142/20 142/21	access [6] 104/1 105/10 105/19 107/6	advanced [1] 36/1
2015 [1] 28/10		adverse [2] 104/18 108/16
2016 [2] 1/19 164/15		advice [1] 7/24
2017 [1] 27/11		advisory [7] 1/3 2/1 4/3 28/14 54/7 95/10 95/10
2018 [3] 31/20 32/3 32/14		advocate [1] 124/18
20th [8] 159/3 159/7 159/11 159/12 159/15 159/17 162/21 163/11		affect [1] 8/13
24 [1] 1/19		affects [1] 89/14
24-hour [1] 34/20		after [7] 36/9 66/10 80/1 108/11 132/19 157/19 160/9
25 [1] 68/4		afternoon [2] 30/4 113/25
26th [1] 12/8		afterwards [1] 153/9
27th [2] 159/3 159/3		again [17] 17/14 35/24 41/3 83/9 87/24 99/15 104/19 107/16 140/4 140/11 145/1 148/20 152/3 152/6 154/16 154/17 160/1
28th [1] 159/22		
2:30 [1] 77/25		
3		
3-8 [1] 120/3		
3.2 [2] 98/14 98/19		
30 [1] 103/16		
30th [4] 137/11 137/23 138/23 139/11		
38 [1] 99/2		
39 [1] 99/3		
3:03 [2] 1/20 163/20		

<p>A</p> <p>against [1] 91/16</p> <p>age [1] 36/21</p> <p>agencies [4] 39/2 39/4 115/2 123/7</p> <p>agency [1] 39/5</p> <p>agenda [4] 24/22 29/23 59/8 140/3</p> <p>ago [8] 25/16 26/14 41/5 57/10 95/17 95/18 117/3 117/11</p> <p>agree [6] 119/20 121/4 121/4 121/16 123/12 126/7</p> <p>agreed [1] 30/18</p> <p>agreement [1] 24/15</p> <p>ahead [15] 6/23 11/19 15/17 24/16 79/5 82/17 83/6 87/4 87/7 88/9 91/23 119/12 126/19 153/13 159/8</p> <p>air [7] 22/11 87/12 101/15 111/4 111/14 111/21 151/15</p> <p>airplane [1] 76/22</p> <p>airport [15] 1/14 76/13 160/6 160/9 160/13 160/13 160/14 160/18 160/21 160/24 161/7 162/2 162/25 163/6 163/9</p> <p>Albert [1] 2/16</p> <p>Alberto [2] 4/15 95/3</p> <p>align [1] 79/22</p> <p>aligned [4] 82/6 82/10 82/10 84/7</p> <p>alignment [4] 73/6 80/19 83/25 85/6</p> <p>all [141] 8/21 9/11 9/21 9/22 14/13 14/15 19/14 21/14 21/21 22/12 23/10 23/12 23/13 23/13 23/18 23/23 25/21 26/11 27/14 28/15 28/22 31/4 31/11 32/12 32/17 32/19 33/12 34/9 37/18 39/1 39/6 40/3 40/8 41/20 42/8 43/5 44/16 47/12 48/5 53/12 53/17 53/19 53/20 53/23 54/2 54/20 54/20 54/23 54/23 55/1 55/14 55/24 56/12 58/15 59/11 59/12 60/22 61/21 64/12 65/24 66/10 69/14 70/4 70/7 72/11 74/3 74/12 75/9 76/14 76/18 77/15 78/13 80/1 81/13 82/2 82/5 82/7 82/17 83/4 83/11 86/2 86/19 87/22 88/3 90/14 93/16 93/17 97/6 97/8 98/20 100/17 101/14 102/4 102/13 103/13 103/18 104/3 104/14 105/15 105/20 109/6 109/13 109/24 112/14 114/25 116/14 118/15 119/16 119/20 120/11 123/12 127/12 133/22 136/25 143/24 144/15 144/19 145/14 145/18 146/11 150/8 150/9 150/24 151/5 151/10 151/11 151/11 151/12 151/13 151/17 152/21 152/25 154/8 155/18 157/20 158/16 158/19 159/10 159/10 160/23 162/4</p> <p>allied [2] 130/25 133/14</p> <p>Allison [6] 2/21 5/4 6/20 27/20 28/6 56/3</p> <p>allow [5] 50/6 80/13 80/19 88/11 88/12</p> <p>allowed [5] 19/12 46/25 65/20 107/19 123/21</p> <p>allows [4] 70/24 87/3 88/8 88/14</p> <p>almost [4] 100/19 100/24 106/19 115/19</p> <p>alone [1] 118/12</p> <p>along [6] 28/5 29/23 56/15 66/5 84/7 114/22</p> <p>already [13] 10/18 10/20 34/18 35/3 73/19 74/11 77/17 79/14 123/23 124/4 142/16 144/1 145/13</p> <p>also [32] 26/2 30/9 34/10 37/1 40/24 50/16 53/15 63/21 67/8 68/21 79/10 80/19 83/2 85/5 88/22 89/3 97/17 99/25 100/11 100/14 101/4 101/6 109/7 118/17 118/18 124/10 127/15 130/7 139/23 141/1 145/20 154/13</p> <p>although [2] 103/12 108/15</p> <p>always [18] 4/5 13/14 14/21 18/17 37/16 44/12 50/9 71/10 71/11 86/20 92/5 105/16</p>	<p>105/23 106/22 107/21 117/6 121/16 159/20</p> <p>am [7] 4/20 33/14 89/25 140/16 164/10 164/12 164/13</p> <p>amend [1] 58/14</p> <p>American [2] 125/5 125/12</p> <p>amount [4] 83/25 84/3 97/22 101/12</p> <p>amounts [1] 98/12</p> <p>anatomy [1] 86/16</p> <p>and/or [4] 105/10 135/9 135/14 135/15</p> <p>Andrews [2] 2/19 5/8</p> <p>anesthesiologist [3] 95/19 96/1 116/4</p> <p>angle [1] 84/14</p> <p>annual [5] 59/12 138/6 138/8 138/9 138/24</p> <p>annually [1] 103/25</p> <p>another [14] 8/12 19/17 87/10 90/2 93/25 95/24 97/14 122/23 123/11 125/24 139/9 149/6 150/25 160/9</p> <p>ANSI [9] 59/19 61/8 61/15 61/18 61/20 62/1 62/1 64/11 69/25</p> <p>answer [1] 64/4</p> <p>answers [3] 73/24 74/13 158/17</p> <p>antenna [2] 80/16 84/24</p> <p>antennas [1] 87/7</p> <p>any [69] 9/21 15/22 16/1 16/4 17/10 27/14 31/10 34/2 34/5 35/21 36/6 39/21 41/11 45/21 45/23 47/11 47/16 49/25 50/1 50/7 52/20 53/11 53/16 63/23 65/7 65/16 66/7 69/20 73/16 73/18 94/13 95/25 98/18 99/12 100/12 100/13 104/7 104/8 104/18 106/2 107/25 108/21 110/21 114/1 114/1 114/6 114/8 118/20 120/22 139/14 142/3 143/9 144/23 149/24 152/9 152/15 155/3 155/9 155/20 156/11 156/22 156/23 157/2 157/3 158/13 159/9 160/3 164/11 164/12</p> <p>anybody [29] 6/16 8/12 9/15 9/21 16/3 16/10 17/1 17/10 22/14 24/9 25/3 47/17 51/2 105/10 118/8 134/1 136/20 139/13 139/19 141/19 142/3 142/9 143/9 143/15 158/12 159/17 160/2 161/11 163/14</p> <p>anybody's [1] 8/24</p> <p>anymore [3] 8/9 70/18 77/4</p> <p>anyone [3] 34/15 104/5 142/22</p> <p>anything [36] 12/4 15/18 16/24 17/1 17/2 22/15 22/17 24/10 34/16 43/21 52/19 55/11 57/5 58/4 60/18 66/17 67/11 75/15 77/5 93/6 96/12 96/13 108/6 110/6 118/1 118/18 119/16 121/1 134/2 144/6 147/19 155/9 156/17 158/15 158/16 163/14</p> <p>anyway [3] 62/5 77/4 161/17</p> <p>anywhere [3] 116/19 122/2 137/12</p> <p>apart [1] 87/18</p> <p>APM [1] 59/23</p> <p>apologize [2] 79/6 79/9</p> <p>apparently [3] 71/12 160/22 161/4</p> <p>Applause [2] 23/19 109/1</p> <p>applicants [1] 28/21</p> <p>application [6] 7/5 9/6 11/16 11/18 16/21 18/16</p> <p>applications [7] 5/7 6/23 7/3 8/7 8/15 8/21 11/17</p> <p>applied [2] 8/5 96/17</p> <p>apply [8] 11/10 11/12 14/12 58/5 74/3 83/24 84/8 84/11</p> <p>appointing [2] 138/14 138/15</p> <p>appreciate [3] 22/23 23/12 26/24</p> <p>approached [1] 58/2</p> <p>approaching [1] 62/25</p> <p>appropriate [12] 29/4 29/21 43/15 120/16 120/23 121/6 121/11 122/7 122/9 122/14 126/13 126/22</p> <p>appropriately [1] 117/7</p>	<p>approve [4] 6/8 7/5 145/22 151/24</p> <p>approved [9] 6/19 24/24 34/5 34/12 40/22 73/19 118/14 153/7 153/10</p> <p>approving [1] 6/14</p> <p>April [6] 8/16 12/8 15/17 17/22 17/23 17/24</p> <p>AR [1] 130/20</p> <p>architects [1] 115/14</p> <p>ARDMS [1] 131/1</p> <p>are [232]</p> <p>area [20] 38/7 41/8 66/12 72/13 77/12 87/1 88/23 88/25 95/8 105/19 107/1 107/2 107/11 107/12 107/18 107/20 107/21 116/12 118/25 157/14</p> <p>areas [8] 22/7 35/6 39/1 41/16 105/12 108/5 111/18 112/1</p> <p>aren't [4] 34/4 113/14 115/10 117/20</p> <p>Armand [2] 2/4 10/10</p> <p>ARMRIT [3] 130/21 130/22 130/23</p> <p>arms [1] 99/13</p> <p>around [20] 23/23 24/15 62/7 79/7 80/17 84/9 85/22 87/9 87/13 87/22 87/25 112/3 113/10 113/12 113/12 114/9 132/6 143/7 154/6 155/6</p> <p>arrange [2] 19/21 19/22</p> <p>arrested [1] 69/13</p> <p>arresting [1] 97/5</p> <p>ART [3] 30/10 130/20 130/23</p> <p>Article [2] 137/9 138/18</p> <p>artifact [1] 113/20</p> <p>artifacts [3] 97/9 103/2 103/3</p> <p>arts [1] 64/13</p> <p>as [111] 2/7 7/16 14/3 14/5 17/17 21/3 21/8 27/4 27/5 28/6 29/1 29/22 31/15 32/4 32/8 32/25 33/23 34/2 34/15 35/12 35/14 37/16 38/7 42/6 42/6 42/15 42/15 42/22 45/10 45/10 45/16 45/16 45/21 45/22 46/5 46/6 46/9 48/11 49/12 50/10 54/11 54/13 54/13 67/9 67/19 67/19 71/2 74/5 74/9 79/3 80/21 80/21 83/8 83/13 84/4 84/4 84/15 84/20 85/5 85/23 89/13 89/21 91/11 96/8 96/15 97/5 97/5 98/1 101/2 101/3 104/21 105/2 105/2 107/5 111/16 113/8 116/6 116/10 116/22 117/23 121/24 125/21 125/21 130/17 130/22 133/15 141/9 144/21 145/21 147/15 147/16 147/16 148/19 149/12 150/7 150/18 150/18 150/20 150/22 151/12 151/12 151/14 151/15 152/21 152/21 153/12 154/14 154/15 154/18 159/6 161/12</p> <p>ashtray [3] 76/12 76/19 76/24</p> <p>ask [8] 17/13 42/11 54/23 71/3 102/16 117/4 138/11 148/6</p> <p>asked [4] 54/17 82/14 145/7 150/1</p> <p>asking [3] 38/6 92/22 155/20</p> <p>asks [1] 149/24</p> <p>asphyxiated [1] 111/12</p> <p>ASRT [13] 16/25 24/15 24/17 24/19 24/23 25/15 27/9 31/24 32/8 50/2 125/5 125/7 125/15</p> <p>ASRT's [1] 25/11</p> <p>assessment [1] 35/5</p> <p>assist [1] 7/19</p> <p>assistant [2] 4/11 4/13</p> <p>assistants [1] 7/1</p> <p>Associate [2] 32/8 33/22</p> <p>Associate's [2] 32/6 130/24</p> <p>associated [4] 48/20 95/25 126/11 128/9</p> <p>Associates [1] 133/13</p> <p>associations [1] 21/16 159/10</p> <p>assume [3] 67/2 73/8 74/1</p> <p>assuming [2] 157/5 157/7</p> <p>assurance [2] 7/17 10/16</p>
---	---	---

<p>A</p> <p>assure [2] 123/13 123/17 asterisk [2] 131/3 131/4 Astro [2] 159/6 159/9 ATC [1] 2/15 Atherton [3] 2/13 4/23 23/2 atmosphere [1] 111/13 atom [1] 81/24 atoms [2] 79/22 82/2 attach [1] 90/15 attached [5] 89/10 94/24 152/24 152/25 152/25 attachments [1] 153/1 attempt [1] 91/24 attorney [3] 43/3 43/4 164/11 attorneys [3] 64/15 71/14 164/13 attracted [1] 96/13 attuned [1] 84/25 audiences [2] 48/25 79/4 auspices [1] 121/25 authority [9] 27/23 28/3 29/8 29/11 41/8 43/12 53/10 58/11 62/15 authorization [9] 145/4 145/5 146/3 146/13 151/19 154/11 154/23 154/24 157/21 authorized [2] 150/17 164/6 auto [1] 147/1 automatically [2] 15/4 145/14 automobile [2] 157/24 157/25 available [3] 14/22 38/23 103/24 average [4] 7/2 98/13 98/17 98/19 avoid [2] 159/9 162/8 avoidance [1] 106/2 aware [12] 8/1 8/8 12/20 26/18 44/22 96/6 108/15 109/10 109/18 113/15 116/13 116/17 away [8] 30/21 49/1 68/9 84/16 114/18 116/24 116/25 160/14 axis [4] 84/8 84/17 85/22 88/19 aye [12] 6/14 6/15 136/12 136/13 136/18 136/19 139/17 139/18 142/7 142/8 143/13 143/14</p>	<p>145/17 155/4 basic [2] 80/5 81/9 basically [27] 20/7 25/4 53/25 58/9 63/10 70/22 71/4 76/21 79/12 79/17 79/18 80/7 83/17 84/18 84/24 85/1 87/22 89/9 89/23 90/18 92/20 95/20 98/8 104/5 105/23 106/21 139/7 basis [3] 26/7 73/15 108/13 bathrooms [1] 161/25 batteries [1] 75/19 Bay [1] 5/24 bays [1] 111/15 be [204] Beach [1] 4/15 beam [2] 72/25 73/2 beams [1] 73/3 bear [1] 150/11 became [1] 114/13 because [91] 9/3 10/18 13/6 15/4 18/10 21/6 22/5 30/5 31/18 32/17 34/9 34/18 35/10 35/21 36/4 36/13 36/19 37/6 39/3 42/16 44/11 44/18 44/22 47/5 47/9 52/9 56/12 58/18 63/11 63/20 66/22 66/25 69/6 74/22 76/2 81/23 82/1 84/12 94/4 94/8 96/5 97/9 97/11 97/18 101/6 102/14 102/24 105/2 106/22 109/12 112/12 113/7 114/10 116/15 116/21 122/1 124/15 125/11 126/5 129/7 130/10 136/2 139/23 142/16 142/19 143/25 144/13 145/11 145/21 146/5 148/3 148/21 150/8 150/16 151/16 152/9 152/18 152/23 153/14 154/17 155/1 156/1 157/10 157/13 157/22 158/3 158/5 158/5 161/1 162/17 163/3 Becky [4] 5/17 13/16 51/1 157/25 become [1] 111/13 becomes [1] 117/22 becoming [2] 32/13 42/15 been [47] 9/11 11/20 11/24 15/2 21/19 21/24 22/18 22/20 26/4 26/8 28/11 29/24 30/24 31/2 31/4 31/5 31/5 31/7 33/9 33/15 36/17 37/9 37/25 42/25 44/12 47/6 50/9 60/21 69/13 73/19 76/12 90/9 90/11 92/8 93/14 95/13 103/10 106/6 106/9 108/14 124/15 138/25 142/17 144/20 145/10 150/7 150/14 before [32] 24/19 25/6 34/6 41/6 46/23 48/4 49/5 52/14 55/11 60/4 62/9 64/10 65/5 72/9 72/20 77/15 96/3 102/23 115/15 116/23 120/12 124/8 127/6 134/8 137/16 140/1 140/11 142/3 143/1 153/6 154/8 158/10 beforehand [1] 157/21 begin [2] 137/11 144/14 beginning [4] 20/24 42/10 108/24 137/13 behind [3] 23/4 35/11 35/11 behoove [1] 52/7 being [18] 8/14 22/4 32/15 35/14 38/1 39/3 46/14 60/25 70/5 89/18 107/9 107/9 112/8 112/8 118/4 148/23 150/19 161/7 believe [4] 10/5 16/6 102/1 108/17 believes [2] 126/10 128/8 below [2] 111/18 112/1 beneficial [1] 108/8 benefit [4] 24/20 71/16 71/17 106/13 benefits [1] 46/14 besides [3] 91/1 99/23 112/8 best [10] 24/7 99/18 118/21 119/25 129/9 132/21 134/6 134/10 134/12 134/13 better [7] 82/17 83/19 83/20 83/20 132/2 133/19 160/20 between [11] 46/22 82/9 82/25 90/16 92/24 107/4 118/13 123/7 124/19 138/22 160/6</p>	<p>between [1] 92/24 beyond [2] 96/18 112/23 big [5] 22/8 76/12 92/5 102/14 159/9 bigger [2] 96/15 97/5 biggest [3] 25/22 40/7 55/9 Bill [2] 4/23 23/2 biological [2] 97/17 108/13 Birky [3] 2/10 4/25 4/25 bit [26] 7/3 7/21 8/11 10/1 10/8 19/4 20/1 20/9 23/3 27/19 30/1 30/5 30/24 31/14 39/15 45/15 52/16 52/17 55/13 72/20 79/1 79/2 113/25 145/24 150/7 155/2 blown [1] 89/18 BMI [1] 70/9 board [10] 23/13 27/10 30/23 31/11 31/14 31/21 45/4 112/25 125/14 138/15 boards [1] 122/18 boat [1] 153/6 bobby [1] 97/9 bodies [1] 41/11 body [19] 40/10 40/12 54/2 65/2 65/11 67/19 80/14 80/17 81/23 83/23 84/22 86/11 88/15 97/20 97/23 98/13 98/17 99/1 100/15 body's [1] 109/24 boil [2] 93/7 101/14 bone [3] 68/22 70/12 72/25 bonus [1] 80/6 book [2] 40/2 43/6 booked [1] 160/24 booklet [1] 148/17 boss [1] 23/20 both [14] 45/17 46/1 54/3 79/1 79/2 85/5 87/12 100/23 101/10 120/7 124/23 124/24 136/7 143/22 bothers [1] 132/11 bottom [6] 16/9 16/11 28/17 28/24 58/19 60/8 box [1] 9/4 boy [1] 95/7 brand [1] 13/20 break [4] 55/14 77/2 77/21 78/16 breakout [1] 101/18 Brenda [8] 2/19 5/8 22/23 56/6 77/6 144/5 152/13 153/5 Brian [3] 2/10 4/25 4/25 Bridget [1] 2/11 brief [1] 79/13 bring [6] 75/11 91/14 109/11 118/10 119/17 137/16 bringing [3] 37/24 69/7 137/7 broken [2] 110/12 118/21 brooms [1] 113/5 brought [3] 57/9 74/19 116/6 BS [4] 2/5 32/6 32/10 33/24 buckets [1] 113/5 buffers [1] 91/15 building [2] 93/18 115/8 building's [1] 93/21 built [6] 39/18 87/6 87/7 87/22 98/20 115/9 built-in [2] 87/6 98/20 bunch [2] 75/12 75/15 bureau [9] 1/13 2/18 2/20 2/21 5/9 5/12 21/5 21/7 41/5 burn [3] 41/17 101/21 110/8 burning [2] 37/22 113/21 burns [1] 104/11 Burress [2] 2/12 6/4 business [7] 2/19 5/9 55/2 78/21 158/14 158/15 158/19 but I [1] 54/18</p>
<p>B</p> <p>BA [1] 33/22 Bachelor [1] 133/13 back [62] 15/8 15/20 18/7 21/18 25/7 31/17 35/22 39/10 39/14 44/3 46/16 49/14 50/25 52/10 57/9 58/12 63/17 64/20 76/13 76/16 78/3 78/6 78/16 78/21 81/13 83/8 84/17 88/11 90/24 90/25 102/16 112/8 115/3 116/6 119/15 119/17 124/7 126/5 126/15 128/4 131/15 131/22 135/24 137/16 142/13 146/3 147/9 150/18 152/2 152/3 152/5 152/6 152/17 152/19 153/9 153/16 155/10 155/11 155/13 155/14 160/2 160/17 backdated [1] 153/18 background [4] 7/4 10/13 45/15 62/5 bad [3] 15/13 92/9 105/2 badges [1] 61/3 badly [1] 38/1 bag [3] 75/10 75/13 76/16 baggage [2] 66/2 75/4 bags [1] 75/7 balancing [1] 113/11 ballpark [1] 62/10 bare [1] 72/17 base [1] 83/23 based [19] 4/24 6/2 7/24 54/9 64/11 82/10 83/2 84/1 98/24 109/24 115/16 115/17 117/23 123/4 138/10 139/4 145/14</p>		

B	button [1] 92/6 buy [1] 40/3 bylaws [8] 137/5 137/8 137/9 137/14 139/24 140/8 144/6 144/8	causing [2] 54/1 98/9 cavity [1] 65/2 CBC [3] 1/24 164/5 164/19 CCP [3] 1/24 164/5 164/19 CCSP [1] 2/13 ceiling [4] 102/19 111/5 111/6 111/10 cell [3] 97/1 109/23 162/12 Celsius [1] 99/2 center [4] 5/19 5/25 10/2 10/16 center person [1] 10/2 centimeters [1] 96/22 Central [1] 62/5 cents [1] 114/11 certain [6] 83/5 86/3 86/4 98/12 99/4 112/23 certainly [1] 41/23 certificate [2] 51/24 164/1 certificates [1] 36/1 certification [24] 29/15 31/9 32/11 33/2 33/17 34/13 36/13 50/22 51/3 122/18 124/20 124/21 124/25 125/24 127/3 127/5 129/10 130/6 130/25 131/5 132/9 132/10 132/16 133/14 certifications [3] 44/15 124/17 129/18 certified [28] 20/19 33/9 36/22 38/7 50/21 55/4 121/7 122/15 123/19 123/20 125/20 127/23 127/24 129/16 129/24 130/1 130/14 130/14 131/11 132/23 133/23 134/25 135/6 135/9 135/13 135/21 135/23 136/1 certifies [1] 136/4 certify [3] 29/8 164/6 164/10 certifying [3] 125/3 125/14 125/17 CEU [2] 2/22 5/16 chain [1] 54/21 chair [9] 4/21 14/4 89/17 89/20 89/24 96/16 102/8 141/10 141/10 chairman [6] 2/2 2/3 139/24 139/25 142/25 143/1 chairperson [3] 3/10 140/5 140/5 chairs [1] 97/13 chance [3] 41/13 110/21 158/18 change [22] 15/4 42/12 43/11 45/17 51/16 86/14 88/19 98/9 108/1 116/12 137/18 139/10 140/8 140/21 140/22 144/24 148/2 149/6 149/18 150/24 156/11 156/24 changed [11] 15/1 27/22 39/21 42/21 42/24 56/22 57/15 118/20 134/9 149/17 150/2 changes [8] 7/21 52/4 57/8 87/2 87/3 88/14 156/22 157/1 changing [4] 88/13 88/13 88/20 141/20 Chantel [8] 2/7 6/1 24/11 25/14 69/9 72/19 74/19 77/19 Chantel's [1] 26/4 characteristics [3] 85/9 85/17 85/17 characters [1] 100/21 charging [1] 160/24 cheaper [1] 157/23 check [3] 40/20 112/1 150/18 checked [2] 104/15 104/20 chest [1] 113/19 chicken [1] 35/17 chief [3] 4/17 5/24 41/5 child [5] 94/9 94/11 94/19 95/9 110/2 chiropractic [1] 4/24 chock [1] 18/25 choice [2] 162/24 162/25 choose [1] 43/21 CHP [1] 2/12 Cindy [1] 63/25 circuitry [1] 99/7	citation [1] 39/5 cited [2] 115/13 121/14 citizens [1] 44/13 city [4] 22/3 161/2 161/10 161/12 class [1] 38/18 classes [4] 25/9 38/10 55/5 59/22 classmates [1] 26/9 claustrophobia [1] 104/24 clean [2] 113/13 152/23 click [3] 146/15 146/16 149/5 clinical [5] 31/6 31/6 98/5 130/24 131/1 clinically [2] 81/2 110/16 clip [1] 112/24 clips [2] 99/24 117/10 clogs [1] 102/2 close [2] 89/21 113/9 closer [3] 55/2 89/13 161/20 closet [1] 96/2 cloud [1] 111/22 CM5 [1] 80/20 CNMT [2] 2/7 2/16 co [1] 26/10 co-workers [1] 26/10 code [14] 51/20 93/18 93/18 115/8 115/9 118/6 118/7 118/15 118/19 118/25 147/7 147/8 149/15 149/17 coded [1] 96/9 codes [1] 117/25 coding [1] 115/17 Coffey [1] 2/9 cogitate [1] 29/13 Cognetta [2] 2/4 10/10 coil [5] 84/24 86/17 87/21 87/23 99/8 coiled [1] 80/8 coils [10] 80/15 86/23 86/25 87/2 87/6 87/19 88/7 88/8 99/20 103/9 coincide [2] 138/2 138/15 cold [6] 87/12 99/12 101/10 101/12 101/21 111/15 collagen [1] 54/1 college [1] 93/4 Collier [1] 65/19 color [2] 76/10 96/9 comb [1] 72/16 come [17] 9/14 16/24 17/1 21/7 21/16 23/21 28/24 34/8 49/22 50/2 64/19 65/1 76/17 94/11 110/17 141/24 154/9 comes [7] 36/16 108/7 109/22 146/12 152/2 157/12 159/20 coming [13] 17/8 31/17 36/21 38/5 80/14 88/4 88/5 104/14 115/3 117/19 119/9 152/3 152/6 comma [1] 148/25 comments [4] 27/18 66/20 66/21 66/21 Commission [10] 36/11 36/12 37/8 38/5 39/4 44/19 103/21 104/21 105/15 124/16 Commissions [1] 24/24 committee [3] 41/6 137/17 140/24 common [9] 81/2 82/19 82/20 92/17 96/25 97/7 97/14 110/10 113/3 companies [2] 34/7 60/10 company [1] 67/7 comparative [2] 98/15 98/15 comparatively [1] 100/24 compared [2] 45/9 87/12 competencies [4] 32/2 33/6 34/9 45/1 competency [1] 34/10 complaining [1] 60/24 complete [3] 31/21 32/12 125/20 completed [1] 56/5 completely [9] 49/16 54/3 57/23 112/12 112/15 114/22 118/20 151/21 154/1 compliance [1] 56/9
C	cabinets [1] 23/9 calculated [1] 98/10 calendar [4] 137/19 137/20 137/24 158/25 calibrate [1] 68/24 calibrated [1] 73/15 calibrating [1] 73/22 calibration [1] 69/1 California [2] 37/15 44/7 call [8] 10/1 10/6 10/16 29/10 49/5 75/4 116/4 162/12 called [3] 85/7 86/22 157/10 calling [3] 30/14 96/1 118/6 came [12] 16/19 58/12 63/16 67/7 67/9 94/22 102/20 114/22 146/7 147/4 149/21 157/23 campaign [1] 144/2 campus [6] 4/18 4/21 24/4 30/8 31/8 36/18 can [96] 6/7 9/3 9/5 9/8 9/10 10/21 11/10 15/22 15/23 15/23 17/9 17/14 17/18 18/2 20/12 21/21 25/24 26/1 28/19 32/1 32/7 32/8 32/9 33/5 34/8 37/21 40/9 40/22 41/17 42/11 45/2 45/3 45/15 47/17 47/19 50/1 50/7 51/23 52/2 54/13 56/5 60/3 62/2 65/3 65/21 70/15 71/6 78/2 78/4 78/6 78/11 78/13 83/6 83/22 89/6 99/4 99/8 101/3 101/5 101/22 102/2 109/10 111/8 111/12 111/15 113/7 113/10 115/23 116/23 119/17 124/7 125/9 126/7 127/17 127/19 128/4 128/5 128/22 130/17 131/2 131/15 136/11 150/24 152/8 152/16 153/6 153/16 155/2 155/10 155/12 155/12 159/20 160/18 162/8 162/13 163/8 can't [19] 13/8 18/13 26/12 56/2 60/17 67/24 68/9 70/14 70/23 76/3 90/17 110/5 110/12 112/22 118/1 118/10 130/14 153/9 153/15 Canadian [1] 131/12 cancer [2] 49/13 110/21 canister [2] 96/20 112/24 cannot [4] 8/8 38/4 40/23 109/11 cap [1] 29/13 capable [1] 117/20 car [11] 157/4 157/5 157/7 157/9 157/13 157/14 157/22 157/23 158/7 158/8 162/9 card [3] 13/11 13/12 13/12 cards [2] 13/14 90/7 care [8] 8/12 9/15 24/1 27/7 32/18 33/1 35/14 105/5 carefully [1] 37/10 cart [5] 52/14 90/15 118/11 118/25 119/8 carts [4] 90/11 91/5 118/15 118/19 case [11] 22/17 50/9 54/11 108/13 108/13 112/4 141/6 145/1 148/20 148/24 161/4 case-by-case [1] 108/13 catastrophe [1] 114/7 catastrophic [2] 111/20 111/24 category [1] 117/9 caught [2] 55/13 97/11 cause [8] 80/11 88/8 99/9 99/15 99/23 100/4 101/14 108/15 caused [1] 95/10 causes [2] 79/21 86/19		

<p>C</p> <p>complicated [1] 81/11 complications [1] 144/18 complicated [2] 126/16 128/7 component [1] 34/4 components [2] 32/3 41/16 compress [1] 99/12 computer [2] 10/19 10/21 concern [5] 63/20 72/14 101/8 102/14 116/22 concerned [2] 104/8 109/16 concerns [8] 36/11 89/2 89/3 96/11 97/17 98/3 101/4 109/15 concluded [2] 158/19 163/20 condensation [2] 93/20 111/21 conditional [1] 104/17 conditions [1] 68/24 conduct [5] 29/4 29/21 120/16 120/23 121/7 conducting [1] 80/8 conductive [2] 99/10 99/15 confirm [1] 104/14 confusing [5] 15/15 144/14 145/24 150/8 155/2 confusion [1] 26/19 Congratulations [1] 163/18 Congress [1] 71/9 connected [1] 164/13 connection [1] 15/9 cons [1] 162/3 conscience [1] 96/6 consideration [1] 162/19 considerations [1] 52/7 considered [3] 52/4 67/22 85/24 considers [1] 120/9 constantly [1] 116/15 consultant [2] 2/19 5/9 consulting [1] 38/22 consumer [1] 76/7 contact [1] 101/21 contacted [1] 24/12 contain [1] 72/17 content [1] 101/6 continue [1] 140/7 continuing [4] 31/24 34/20 56/10 130/18 contraband [2] 66/6 72/21 contract [1] 161/2 contractions [1] 85/25 contraindicated [1] 63/13 contraindications [1] 101/2 contrast [1] 85/14 contributed [1] 81/8 contributions [1] 40/7 control [15] 1/13 2/18 2/20 2/21 5/10 5/12 21/6 43/22 57/3 59/10 59/11 107/6 121/21 121/23 131/14 controlled [3] 67/24 105/12 105/18 controlling [2] 106/18 110/19 controls [1] 72/12 convention [2] 160/23 162/17 conversation [1] 27/2 conversations [3] 16/19 22/1 123/5 convert [1] 138/13 convoluted [1] 29/6 Cooksey [1] 145/20 coordinator [3] 2/22 5/16 31/6 copies [1] 16/10 copy [1] 40/3 Corbett [3] 2/7 6/1 77/19 core [5] 80/17 86/23 88/3 88/6 96/18 correct [8] 14/25 33/7 34/16 34/23 109/5 133/25 153/8 164/8</p>	<p>corrective [1] 21/12 corrective [1] 108/5 correctly [1] 37/23 couch [1] 60/15 could [34] 11/19 19/13 35/8 46/1 47/14 59/5 66/24 73/6 95/1 96/12 99/14 99/23 99/25 100/3 103/11 104/6 104/15 108/15 111/12 112/25 118/15 120/25 121/4 121/4 121/8 121/10 121/16 121/22 122/10 123/24 124/7 133/2 143/6 147/9 couldn't [5] 58/20 123/3 137/12 144/15 153/3 council [36] 1/4 2/1 4/4 20/11 20/14 20/14 20/21 21/1 22/5 25/16 25/22 26/3 28/15 28/16 28/18 28/19 28/20 28/22 29/12 29/18 39/11 42/5 42/13 50/11 52/7 53/5 53/6 54/7 63/16 114/1 120/4 120/22 126/10 128/8 137/17 154/5 Council's [2] 48/18 49/20 counsel [3] 24/18 164/11 164/13 count [2] 21/13 68/12 countertop [1] 76/8 country [3] 59/12 76/14 120/9 county [4] 64/2 65/19 115/23 164/3 couple [11] 20/18 25/9 43/7 57/11 59/21 60/10 76/15 92/8 96/22 103/5 103/18 coupled [1] 98/7 course [11] 29/9 34/1 38/25 41/10 51/2 51/21 51/23 60/23 62/22 81/18 137/23 courses [1] 38/15 courthouse [3] 67/11 74/20 74/21 courthouses [2] 57/17 67/17 cover [2] 51/21 55/6 covered [3] 93/18 99/12 136/7 covers [2] 55/6 59/20 CR [1] 44/9 crack [1] 102/10 crap [1] 76/19 CRCPD [4] 59/2 59/6 59/9 64/3 create [13] 15/3 15/7 37/22 81/15 82/2 83/2 86/15 87/2 87/16 99/15 100/3 138/4 149/15 created [7] 20/14 25/2 25/8 39/16 79/20 80/12 149/23 creates [3] 80/7 86/18 138/5 creating [1] 79/23 creative [1] 65/12 credential [6] 24/23 24/25 25/6 25/12 25/25 47/3 credentialed [2] 32/21 33/5 credentialing [1] 32/25 credentials [1] 147/1 credit [1] 90/6 credits [1] 34/20 crescent [1] 89/10 crop [1] 71/13 cross [2] 91/10 99/14 CRR [3] 1/24 164/5 164/19 crushed [1] 90/18 crushing [1] 95/9 cryogen [1] 104/9 cryogens [2] 89/5 101/9 CSF [3] 85/12 85/18 86/12 CT [27] 24/13 24/25 25/8 25/9 25/11 25/13 25/15 25/25 26/11 26/16 26/18 27/25 31/17 31/20 35/18 35/19 35/20 35/22 37/14 38/7 45/9 45/21 46/22 47/2 47/3 51/18 51/19 cumulative [1] 110/22 Cumulatively [1] 33/23 curious [1] 74/15 current [12] 34/13 34/21 69/24 71/13 80/9 99/9 100/15 101/13 103/13 107/24</p>	<p>143/2 143/12 currently [4] 31/23 34/5 44/9 64/12 currents [1] 100/12 curriculum [3] 33/25 125/8 125/16 curriculum [1] 32/5 Curry [1] 7/8 curtains [1] 75/8 cutting [1] 116/11 Cybil [2] 25/19 25/20 cylinder [1] 116/7 cylinders [1] 94/16</p> <p>D</p> <p>D.P.M [1] 2/8 DABMP [1] 2/3 DABR [1] 2/3 DACBR [1] 2/13 damage [2] 90/22 103/12 danger [3] 105/19 105/21 105/24 dangers [1] 44/22 dash [2] 56/17 56/17 data [1] 107/25 database [1] 40/8 date [3] 137/8 153/21 158/21 DATED [1] 164/15 day [6] 7/2 12/9 23/6 64/20 68/20 164/15 days [5] 7/3 7/5 7/7 27/7 75/16 Daytona [1] 4/15 DC [1] 2/13 de [2] 86/2 86/4 de-phasing [2] 86/2 86/4 dead [1] 41/11 deal [4] 30/21 57/14 121/12 161/16 dealing [3] 48/25 70/7 122/5 deals [1] 53/5 dealt [1] 120/20 dear [1] 22/7 death [3] 90/18 92/4 95/9 debate [1] 124/18 decay [2] 85/4 85/17 December [1] 139/9 decibel [1] 103/16 decide [1] 162/4 decided [1] 28/2 decides [1] 54/8 decommissioning [1] 94/4 deeper [1] 53/25 defer [1] 106/11 deficiency [1] 7/6 deficient [1] 111/13 defined [1] 60/19 definitely [3] 20/5 156/23 156/25 definitive [3] 110/23 126/10 128/9 degree [9] 32/7 32/8 32/10 33/22 33/23 84/14 130/25 133/14 134/3 degrees [5] 32/6 32/6 85/23 99/2 99/3 delay [1] 108/11 delayed [1] 18/10 Delegates [1] 27/11 delivering [1] 73/6 delivery [1] 101/5 demo [2] 144/13 145/3 denied [1] 70/16 densities [2] 76/3 81/23 densitometers [1] 72/25 densitometry [1] 70/12 density [3] 68/22 75/18 83/15 deny [1] 71/5 department [27] 2/17 4/21 5/6 5/15 8/13 9/12 14/4 18/23 19/5 20/22 21/5 28/20 29/3 29/20 32/18 37/10 39/24 42/16 42/23 43/5 43/20 52/3 54/8 92/12 102/20 114/8 120/15</p>
--	---	---

<p>D</p> <p>departments [1] 115/22</p> <p>depending [2] 36/19 38/19</p> <p>depends [1] 33/24</p> <p>depositing [1] 97/20</p> <p>described [1] 120/12</p> <p>describes [1] 28/16</p> <p>design [1] 87/24</p> <p>designating [1] 104/16</p> <p>designed [3] 62/12 92/15 111/5</p> <p>desk [1] 150/13</p> <p>destroying [1] 89/23</p> <p>detail [3] 41/4 50/3 81/10</p> <p>details [4] 21/22 25/21 56/12 65/16</p> <p>detection [2] 67/20 81/21</p> <p>detector [2] 116/18 117/21</p> <p>detectors [4] 22/9 60/22 67/16 75/2</p> <p>determine [8] 84/5 87/4 88/9 88/12 88/15 100/18 100/25 104/7</p> <p>determining [1] 65/22</p> <p>deterrent [2] 66/24 68/3</p> <p>develop [3] 73/12 125/7 125/15</p> <p>developed [1] 139/1</p> <p>developing [1] 85/14</p> <p>device [10] 40/22 43/13 53/24 74/9 75/9 91/25 101/1 104/11 106/20 110/3</p> <p>devices [10] 53/22 55/3 60/11 74/21 90/7 100/12 100/17 105/6 110/14 121/11</p> <p>devil's [1] 124/18</p> <p>diagnostic [3] 37/7 42/3 49/3</p> <p>did [34] 12/6 12/8 14/13 14/13 16/24 17/2 23/3 23/20 26/16 31/12 33/4 37/12 42/2 58/10 70/2 76/23 116/5 123/25 144/12 146/20 147/11 147/16 147/19 147/23 149/17 150/1 150/13 150/25 151/3 152/14 156/2 156/7 162/6 164/6</p> <p>didactic [1] 33/6</p> <p>didn't [25] 14/12 15/4 15/18 15/19 28/3 34/1 47/3 57/16 60/25 63/22 96/3 97/11 102/13 116/6 117/6 117/11 137/14 147/3 147/5 147/16 147/21 151/4 156/3 158/17 160/21</p> <p>died [2] 35/20 95/7</p> <p>difference [6] 82/9 96/17 106/10 113/15 124/19 131/25</p> <p>differences [3] 46/4 46/22 86/14</p> <p>different [37] 9/17 9/17 31/4 36/14 36/19 40/5 40/8 41/15 41/15 41/17 44/12 49/16 52/12 57/24 59/21 60/20 65/14 75/1 81/14 81/15 85/8 85/8 85/13 85/14 85/16 85/16 86/10 98/25 104/2 112/13 112/15 114/23 115/17 117/2 145/9 145/10 156/14</p> <p>difficult [1] 65/4</p> <p>dipole [1] 81/24</p> <p>direct [2] 105/12 107/21</p> <p>direction [5] 21/12 51/14 86/3 88/19 114/1</p> <p>directly [2] 12/14 89/7</p> <p>director [8] 4/18 5/1 5/5 30/8 31/6 31/7 38/12 89/25</p> <p>directors [2] 11/9 14/5</p> <p>dirty [1] 108/18</p> <p>discovered [1] 110/8</p> <p>discuss [2] 49/24 163/14</p> <p>discussed [2] 14/6 121/13</p> <p>discussion [8] 42/15 64/14 79/14 114/1 139/14 141/19 142/3 143/9</p> <p>display [1] 88/23</p> <p>disruptive [1] 140/23</p> <p>dissipate [1] 111/17</p> <p>dissipated [1] 97/23</p> <p>distance [1] 162/1</p>	<p>division [1] 43/3</p> <p>do [157] 4/5 6/10 9/4 11/17 11/19 12/4 12/6 14/15 15/11 15/18 15/22 16/14 16/15 17/18 19/9 19/20 20/1 21/4 21/19 22/17 24/20 24/25 26/12 26/16 26/18 26/21 29/16 30/16 30/20 32/2 32/23 32/24 33/21 34/2 34/9 34/21 36/6 40/4 42/2 42/13 43/20 43/21 44/4 45/21 47/14 47/15 47/17 47/17 47/19 50/4 50/8 50/18 50/18 50/24 52/19 53/10 54/1 55/14 55/14 56/17 61/2 61/7 62/25 68/11 69/6 69/8 69/14 70/14 71/2 71/6 72/23 73/7 73/13 73/13 73/18 73/21 73/23 76/22 88/4 88/21 91/7 91/19 91/22 92/1 92/18 93/13 93/21 93/22 94/3 97/8 99/3 106/8 106/23 106/23 109/4 109/6 110/10 110/16 112/13 112/20 113/11 115/11 117/4 117/4 118/1 118/14 118/24 119/14 119/16 126/15 131/10 131/11 133/3 138/6 139/8 140/5 140/7 140/8 140/10 140/12 141/9 141/17 141/17 142/16 144/17 146/1 146/14 147/10 148/6 150/17 151/3 151/11 151/12 153/13 153/24 154/1 154/2 154/3 154/4 155/7 155/10 155/15 155/19 155/24 156/23 156/25 157/1 157/21 158/9 158/23 159/19 159/25 160/1 160/2 160/18 160/21 164/5</p> <p>doctors [2] 35/11 40/1</p> <p>document [2] 9/8 18/3</p> <p>documentation [1] 44/14</p> <p>Documented [1] 104/3</p> <p>documents [3] 9/6 18/12 18/18</p> <p>does [40] 9/21 16/21 19/1 27/18 28/19 29/7 29/10 44/11 55/6 61/12 61/14 61/15 61/16 61/24 66/19 71/8 71/8 80/5 91/18 92/22 92/25 96/18 102/9 106/10 106/14 110/10 114/9 120/22 122/16 125/10 128/21 130/5 131/25 138/4 141/19 143/8 153/20 155/25 160/2 161/11</p> <p>doesn't [17] 12/4 12/14 21/9 22/20 30/13 35/1 47/15 53/16 91/10 93/8 96/19 102/3 129/12 136/2 138/2 155/24 161/15</p> <p>DOH [3] 145/8 145/9 145/16</p> <p>DOH's [1] 145/23</p> <p>doing [35] 11/20 13/4 13/7 13/25 14/18 15/15 15/16 36/24 41/25 44/1 47/2 48/4 50/24 56/19 58/4 63/4 64/1 64/10 65/19 66/10 70/18 74/16 81/22 89/12 95/19 113/18 138/25 140/7 149/14 150/14 154/1 157/4 157/5 157/7 157/15</p> <p>dollar [1] 48/5</p> <p>dollars [1] 160/25</p> <p>don't [73] 8/22 11/25 15/16 22/9 22/14 25/18 27/22 36/5 38/13 40/13 41/12 42/6 44/2 44/5 44/6 44/18 44/19 49/5 49/6 49/9 49/12 49/25 52/19 53/10 58/3 58/14 60/16 60/24 61/4 61/9 61/10 61/23 65/7 65/16 66/25 68/12 73/1 73/24 74/24 75/11 75/22 75/25 77/8 92/6 92/18 94/5 99/13 100/8 105/24 108/6 109/12 110/9 111/19 115/11 116/20 119/10 120/25 122/20 123/1 123/10 125/1 132/1 133/22 136/5 146/5 149/10 152/6 152/16 154/16 156/18 158/4 158/9 162/5</p> <p>done [24] 23/12 23/13 23/14 23/18 26/11 48/6 70/4 105/1 105/1 112/6 117/10 123/15 130/11 139/25 146/6 149/1 150/12 151/20 151/25 153/15 153/22 154/8 154/13 158/3</p> <p>doors [1] 101/17</p> <p>dosages [1] 61/25</p> <p>dose [13] 57/23 59/22 60/11 61/22 61/24 62/2 62/11 63/21 63/22 68/5 68/17 68/21 73/7</p>	<p>doses [1] 61/11 61/21 62/10 111/1</p> <p>dosimeters [1] 73/23</p> <p>double [2] 39/18 59/23</p> <p>down [14] 10/20 28/13 28/17 28/24 72/17 77/15 83/8 84/14 88/6 90/24 92/2 92/17 116/19 141/16</p> <p>downtown [1] 54/22</p> <p>Dr [1] 23/2</p> <p>drawers [1] 22/21</p> <p>drive [3] 77/12 161/16 161/17</p> <p>drives [2] 75/12 75/18</p> <p>driving [2] 157/23 158/8</p> <p>drop [2] 111/5 111/6</p> <p>dropped [1] 111/9</p> <p>dropping [1] 102/7</p> <p>Drotar [4] 2/6 4/19 144/12 147/25</p> <p>drove [1] 157/24</p> <p>drug [2] 64/23 101/4</p> <p>drums [1] 93/12</p> <p>duct [1] 93/16</p> <p>Dudley [4] 2/21 5/4 6/20 56/3</p> <p>due [4] 85/25 89/2 100/1 139/6</p> <p>dummy [2] 145/5 146/2</p> <p>duplicate [2] 8/21 18/16</p> <p>during [7] 31/10 59/4 83/7 111/2 111/7 111/24 111/25</p> <p>duties [2] 28/15 39/11</p> <p>duty [1] 39/11</p> <p>Dycus [2] 2/5 4/10</p> <hr/> <p>E</p> <p>e-mail [19] 7/13 17/16 17/18 18/11 26/14 144/21 145/17 146/14 146/15 146/16 146/24 147/20 148/13 148/18 149/6 150/19 156/21 156/24 159/20</p> <p>e-mailed [1] 158/2</p> <p>e-mails [4] 26/6 144/17 144/23 155/1</p> <p>each [3] 9/15 44/11 120/17</p> <p>ear [1] 103/16</p> <p>earlier [2] 9/18 14/6</p> <p>early [4] 39/16 42/6 77/22 114/15</p> <p>earth [3] 80/23 80/24 81/7</p> <p>easier [6] 91/25 157/17 161/12 161/22 163/2 163/4</p> <p>easiest [1] 150/21</p> <p>easily [1] 162/8</p> <p>easy [4] 12/16 90/19 93/3 143/24</p> <p>Eat [1] 78/8</p> <p>eaten [1] 163/5</p> <p>echo [1] 112/14</p> <p>edge [2] 89/13 90/12</p> <p>educated [3] 36/25 112/19 112/19</p> <p>education [9] 31/22 31/23 31/24 34/1 34/20 45/1 56/10 104/3 107/8</p> <p>educational [1] 31/19</p> <p>effect [6] 41/19 106/2 106/7 106/9 108/1 131/3</p> <p>effects [6] 49/17 108/14 108/16 110/20 110/22 110/24</p> <p>efficiency [1] 116/21</p> <p>Efstratios [2] 2/8 5/20</p> <p>egg [1] 35/17</p> <p>Eight [1] 162/7</p> <p>either [11] 7/5 24/15 26/7 38/21 39/3 63/14 75/23 80/16 137/18 155/12 156/13</p> <p>elect [1] 141/24</p> <p>elected [1] 141/21</p> <p>election [1] 142/24</p> <p>electrical [1] 80/8</p> <p>electromagnetic [2] 79/23 80/3</p> <p>electronic [3] 153/14 154/7 154/20</p> <p>electronically [2] 154/13 154/18</p> <p>else [18] 16/3 22/14 24/9 40/5 55/11</p>
---	--	--

E	140/22 everybody [30] 4/1 4/3 6/7 6/7 6/13 8/1 8/5 8/8 8/10 10/23 12/17 13/1 13/4 16/9 23/7 37/19 39/8 78/16 110/2 136/11 136/17 139/16 142/7 143/12 144/19 159/13 161/13 163/2 163/2 163/11 everybody's [3] 144/20 150/25 156/25 everyone [9] 6/22 19/4 23/18 92/6 96/6 100/19 107/7 109/10 112/18 everyone's [2] 96/6 148/13 everything [15] 57/3 67/3 90/14 94/22 96/7 100/24 106/18 114/20 118/19 119/11 145/11 145/16 152/24 152/24 155/12 everywhere [1] 107/3 evolved [1] 32/4 evolving [1] 32/16 ex [1] 69/16 ex-husband [1] 69/16 exact [1] 151/14 exactly [9] 25/20 38/13 67/12 88/15 94/10 115/12 121/19 124/24 154/22 exam [2] 26/11 55/6 examination [1] 28/21 example [6] 47/15 47/16 50/4 85/15 85/19 104/1 examples [3] 86/10 96/25 117/5 exams [6] 37/7 38/11 38/19 112/6 125/19 130/11 exceeding [2] 98/12 98/22 except [4] 31/11 53/13 60/23 127/6 exception [1] 71/6 exceptions [2] 71/5 99/3 excess [1] 109/25 exchange [1] 82/24 excitation [1] 81/16 excite [3] 80/1 83/3 84/25 excited [2] 9/12 10/23 excites [1] 79/25 Excuse [1] 159/3 executive [2] 4/25 5/5 exhaust [1] 111/6 Exigent [1] 110/25 exist [1] 56/21 expanded [2] 20/17 35/14 expands [1] 93/10 expansion [1] 93/13 expect [2] 38/21 60/16 expectation [2] 74/4 74/8 expected [2] 26/13 42/5 expecting [1] 27/13 expensive [3] 90/20 90/21 118/16 experience [8] 10/12 10/14 10/22 104/23 110/3 130/8 130/24 131/9 experiences [2] 21/15 21/15 experiments [1] 94/3 expert [4] 16/11 20/20 112/9 112/9 explain [2] 41/13 155/3 explanation [1] 102/17 exponential [1] 90/12 exponentially [1] 89/14 exposing [1] 66/15 exposure [1] 64/12 extend [2] 90/4 96/18 extended [1] 92/2 extra [3] 80/2 109/9 116/14 extremely [1] 101/21 eye [1] 8/24	fact [10] 29/10 29/14 39/21 43/13 102/11 105/23 112/15 119/9 153/12 157/19 factor [1] 97/17 factors [1] 81/8 facts [2] 54/10 59/16 failure [1] 111/20 fair [2] 58/10 72/16 fairly [4] 60/19 110/9 115/5 138/24 falls [1] 137/19 Family [1] 79/9 fans [1] 111/6 far [18] 42/15 45/10 54/8 54/13 67/19 80/21 84/4 90/4 95/6 96/3 101/2 116/25 125/21 147/16 147/16 150/18 151/12 151/15 fare [1] 151/15 farther [1] 54/21 fast [3] 22/19 78/8 102/5 faster [1] 41/1 fat [1] 86/12 favor [6] 6/14 136/12 136/18 139/17 142/7 143/12 fax [3] 18/6 18/11 18/15 FDA [12] 71/21 90/8 95/10 98/17 98/22 104/19 105/18 106/13 108/7 108/12 110/3 121/15 feature [1] 18/19 federal [2] 47/16 144/3 feel [4] 16/10 41/18 110/5 126/9 feels [2] 82/16 127/15 fees [1] 72/8 felt [1] 29/15 ferromagnetic [2] 96/13 105/7 ferrous [3] 94/13 99/25 100/5 fetuses [1] 106/8 few [7] 20/23 22/4 27/17 35/19 77/14 93/1 137/2 fewer [1] 20/16 field [42] 31/2 41/20 65/19 79/20 79/21 79/22 80/7 80/22 80/24 81/5 81/18 81/25 83/14 83/18 83/19 83/24 84/3 84/10 85/6 86/13 86/18 86/19 86/19 86/25 87/3 87/15 88/14 88/24 89/3 90/1 92/21 96/18 97/16 97/24 99/21 100/3 105/20 106/10 109/15 114/6 131/1 133/14 fields [12] 80/12 86/3 89/4 89/4 99/22 99/22 99/23 100/11 100/16 100/18 103/8 109/19 Fiesta [1] 76/8 fifteen [1] 19/12 fifty [3] 21/11 35/8 35/9 figure [11] 19/15 24/14 65/4 81/13 91/4 114/19 153/3 157/14 158/4 158/7 158/21 figured [1] 76/20 figures [1] 59/16 file [1] 9/9 files [1] 152/25 fill [3] 35/4 104/6 156/7 filled [1] 155/23 film [1] 113/20 final [1] 133/20 finally [4] 8/10 58/11 76/19 80/15 financially [1] 164/14 find [7] 8/19 67/1 67/3 75/9 95/23 137/12 162/2 fine [6] 13/19 13/21 13/22 72/16 90/14 161/7 finished [2] 28/5 57/7 fire [9] 92/11 92/12 93/18 93/21 102/18 102/19 115/8 115/21 115/22 firmer [1] 71/4 first [25] 4/7 4/9 12/9 17/19 31/3 39/23 44/4 49/7 52/15 65/18 70/2 94/9 94/9
	F	
	face [1] 74/18 facilities [6] 32/20 32/23 32/24 53/21 115/6 124/13 facility [5] 40/5 47/15 50/6 60/5 65/1	

<p>F</p> <p>first... [12] 95/14 106/12 108/11 122/2 122/5 127/11 136/15 137/8 142/15 144/25 161/5 162/24</p> <p>fiscal [7] 137/18 137/20 137/22 138/10 138/16 139/5 139/7</p> <p>fit [2] 58/3 125/11</p> <p>five [11] 15/14 62/6 62/10 62/16 64/18 68/14 68/17 90/8 90/9 150/25 160/13</p> <p>fix [4] 60/9 134/5 152/4 152/19</p> <p>fixed [2] 8/21 72/25</p> <p>fixing [1] 8/22</p> <p>flesh [1] 101/21</p> <p>flew [3] 95/8 96/23 160/12</p> <p>filhealth.gov [1] 7/14</p> <p>flights [1] 151/12</p> <p>flip [2] 30/3 59/15</p> <p>floating [1] 132/6</p> <p>floor [5] 22/17 91/8 91/14 111/11 111/16</p> <p>Florida [31] 1/15 1/25 4/5 4/14 5/1 5/2 5/22 6/4 20/16 21/21 23/14 25/10 25/13 26/7 26/16 27/21 28/10 33/3 34/3 34/5 39/13 44/12 46/22 47/2 48/12 50/15 53/4 56/9 58/12 62/5 164/2</p> <p>flow [2] 145/22 145/25</p> <p>flying [2] 22/9 97/1</p> <p>FNMT [2] 16/24 17/18</p> <p>focus [3] 54/6 85/10 96/10</p> <p>focuses [1] 104/23</p> <p>folks [19] 20/20 21/1 22/4 29/15 31/25 32/22 43/15 49/8 49/11 49/22 50/2 52/20 52/24 72/17 76/5 91/13 110/16 126/6 129/8</p> <p>follow [1] 73/17</p> <p>Following [1] 27/19</p> <p>food [2] 54/21 163/5</p> <p>fooling [1] 23/22</p> <p>footing [1] 71/5</p> <p>footnote [2] 131/2 131/5</p> <p>forbid [1] 153/17</p> <p>force [6] 81/5 89/11 89/15 89/21 96/17 100/4</p> <p>forces [5] 88/3 88/5 96/15 100/1 113/8</p> <p>forefront [1] 44/12</p> <p>foregoing [2] 164/7 164/7</p> <p>foresight [1] 39/17</p> <p>Forest [1] 161/18</p> <p>forget [3] 59/19 113/17 113/18</p> <p>forgot [5] 57/10 94/21 117/8 147/6 149/5</p> <p>form [3] 43/18 80/2 157/10</p> <p>formalization [1] 103/19</p> <p>formally [1] 26/2</p> <p>former [1] 41/5</p> <p>forms [1] 155/8</p> <p>formula [1] 157/12</p> <p>forth [8] 15/20 30/2 32/13 32/18 43/10 57/5 76/13 88/11</p> <p>forward [10] 7/15 7/21 24/16 26/23 29/17 40/15 51/12 70/6 96/22 120/1</p> <p>found [1] 66/6</p> <p>foundational [1] 43/19</p> <p>four [7] 10/5 10/6 28/25 56/17 56/18 64/19 106/25</p> <p>fourth [2] 66/5 143/6</p> <p>frame [2] 89/17 89/19</p> <p>frankly [1] 162/5</p> <p>freaky [1] 76/9</p> <p>Fred [1] 100/20</p> <p>free [7] 16/10 50/6 50/16 66/21 126/9 161/22 162/1</p> <p>free-standing [2] 50/6 50/16</p> <p>freeze [2] 102/9 111/22</p>	<p>frequency [18] 41/16 80/3 80/18 81/15 82/12 82/18 82/22 82/22 83/1 83/5 83/7 83/10 84/9 84/21 84/25 88/14 88/25 97/18</p> <p>frequently [1] 110/17</p> <p>fresh [1] 26/25</p> <p>Friday [1] 7/12</p> <p>front [1] 153/14</p> <p>froze [3] 92/13 102/11 102/12</p> <p>FSRT [1] 16/24</p> <p>full [4] 19/1 32/5 148/11 156/20</p> <p>fully [3] 92/14 102/13 102/25</p> <p>fun [1] 24/6</p> <p>function [1] 102/3</p> <p>functional [1] 85/12</p> <p>further [4] 49/1 90/14 123/6 164/10</p> <p>Fusion [1] 6/2</p> <p>Futch [2] 2/18 5/11</p> <p>future [3] 8/14 9/13 50/4</p> <p>G</p> <p>Gail [3] 7/8 7/17 16/19</p> <p>Gail's [3] 7/16 9/25 10/4</p> <p>Garden [1] 1/14</p> <p>gas [4] 88/4 93/11 102/4 155/15</p> <p>gasses [2] 86/22 87/11</p> <p>gate [1] 106/18</p> <p>gatekeeper [3] 112/16 115/24 124/22</p> <p>gauge [1] 89/11</p> <p>gauss [10] 80/23 80/25 81/4 90/4 90/5 90/6 90/8 90/12 90/13 91/8</p> <p>gave [5] 27/23 90/1 90/2 117/5 147/7</p> <p>general [10] 18/23 43/4 43/4 47/7 61/22 61/24 68/16 108/10 114/17 132/2</p> <p>generally [3] 97/3 107/11 119/1</p> <p>geometrical [1] 80/13</p> <p>get [86] 4/2 4/7 4/8 8/8 15/2 16/2 18/7 18/9 25/25 26/6 26/11 26/12 27/8 28/17 28/18 32/7 32/8 32/10 33/5 33/15 34/6 34/9 35/24 36/3 37/6 42/23 45/14 52/2 52/21 54/16 54/18 54/22 54/22 55/4 65/20 68/6 68/9 68/18 73/5 73/21 74/5 74/8 74/13 76/3 78/21 79/22 81/10 89/13 89/21 90/17 90/24 90/25 91/15 95/1 96/3 97/4 97/11 99/8 101/19 101/22 109/24 111/12 113/9 115/11 117/25 118/22 122/2 130/14 131/15 144/15 146/13 146/18 147/16 148/20 150/12 150/25 152/21 153/2 154/10 154/15 155/14 156/19 158/17 161/6 161/17 163/8</p> <p>gets [7] 26/22 37/5 39/1 43/6 55/19 113/20 152/24</p> <p>getting [15] 8/6 12/17 13/2 13/25 14/6 14/7 22/21 24/15 38/20 60/4 64/20 91/2 113/24 130/11 155/16</p> <p>giant [1] 104/13</p> <p>give [22] 6/21 20/10 22/16 27/21 28/8 29/8 29/10 29/25 48/4 58/8 58/21 78/23 79/12 80/2 84/14 98/11 98/22 133/20 148/12 155/9 155/12 157/18</p> <p>given [5] 8/4 29/14 29/14 59/1 72/10</p> <p>gives [4] 62/15 83/19 85/23 97/20</p> <p>giving [6] 54/1 84/20 84/23 84/23 148/11 149/18</p> <p>glass [3] 76/8 76/10 76/11</p> <p>glasses [1] 97/2</p> <p>go [112] 4/7 4/8 8/18 11/12 11/18 11/19 13/6 13/9 13/14 13/24 14/20 15/8 16/8 20/12 22/5 22/19 24/11 24/16 26/1 27/11 28/13 28/17 32/7 32/9 34/8 36/5 36/18 36/18 39/14 40/13 47/19 50/18 50/23 52/20 52/22 53/11 53/16 54/8 55/25 56/11 56/23 57/18 58/6 60/9 64/9 64/22 67/14 69/18 71/9 73/9 73/13 75/9 77/15 79/5</p>	<p>81/9 82/17 83/6 87/4 87/6 88/9 91/7 91/11 91/23 95/10 95/23 97/1 97/3 97/8 101/18 102/16 102/23 104/15 107/5 109/9 111/3 111/9 112/23 113/7 113/10 113/10 113/12 113/14 114/2 119/12 119/15 119/25 120/1 124/7 126/18 131/21 132/18 134/22 134/22 134/25 135/12 137/4 143/7 144/17 145/22 147/8 147/9 149/6 150/17 151/10 151/21 153/9 153/16 154/18 154/23 157/16 157/20 158/14</p> <p>go-to [2] 22/5 40/13</p> <p>goal [2] 43/17 134/13</p> <p>goals [1] 139/3</p> <p>God [1] 153/17</p> <p>goes [17] 7/13 27/10 43/3 43/7 43/8 43/9 43/9 44/10 50/25 76/17 76/22 81/12 93/11 93/16 102/5 112/8 157/15</p> <p>going [112] 4/2 6/20 6/20 6/23 7/21 9/2 9/19 11/7 11/8 11/13 11/14 12/2 12/20 13/13 15/2 18/14 21/13 22/20 23/8 24/11 24/18 25/4 25/5 29/25 30/3 31/18 35/4 35/4 35/5 35/24 36/6 37/13 39/10 40/19 41/4 48/6 52/10 54/23 54/23 55/13 55/20 55/21 55/21 55/23 56/6 57/20 59/15 61/17 63/5 64/21 65/9 66/5 66/25 67/2 67/3 67/5 67/10 67/13 67/19 69/5 69/19 73/1 74/5 74/6 74/23 76/18 76/21 78/22 78/23 81/9 87/11 90/15 93/5 93/22 94/6 102/3 106/4 111/20 111/21 111/22 112/25 114/7 117/20 117/21 129/17 130/10 136/23 139/2 140/23 142/14 146/13 146/16 147/4 149/5 149/13 151/14 151/18 152/22 153/2 153/3 154/4 154/20 154/21 155/24 156/9 156/12 156/17 159/5 160/16 160/23 162/15 162/17</p> <p>golden [1] 10/18</p> <p>gone [6] 17/19 22/10 35/3 37/25 54/13 145/14</p> <p>good [22] 6/22 7/18 10/3 14/19 22/11 24/5 36/6 54/9 61/4 65/17 70/20 100/23 112/25 128/12 133/8 136/10 159/13 161/5 162/18 163/5 163/11 163/12</p> <p>Google [2] 151/17 156/16</p> <p>gosh [1] 10/5</p> <p>got [32] 8/3 9/25 16/20 17/16 18/14 19/2 24/1 26/20 31/9 35/23 41/13 49/21 58/4 70/12 87/19 93/3 95/14 105/16 109/11 116/5 117/25 146/4 147/15 147/15 147/16 149/15 149/16 150/4 151/5 152/4 152/13 158/25</p> <p>goTravel [7] 144/11 144/13 144/21 146/17 146/18 148/7 148/20</p> <p>gotten [2] 39/21 122/20</p> <p>governed [1] 121/25</p> <p>government [1] 21/8</p> <p>Governor's [1] 43/9</p> <p>gowns [1] 116/16</p> <p>grab [1] 15/8</p> <p>gradient [9] 80/10 80/12 87/2 87/19 88/7 88/18 88/21 103/8 109/19</p> <p>gradients [3] 81/19 81/20 88/10</p> <p>graduated [2] 25/9 26/8</p> <p>graduates [4] 11/25 13/18 13/24 14/7</p> <p>gram [1] 98/18</p> <p>grandfathered [1] 34/14</p> <p>grandfathering [1] 130/3</p> <p>granite [1] 76/8</p> <p>grant [3] 58/6 58/14 71/4</p> <p>granted [1] 58/13</p> <p>granulators [1] 117/10</p> <p>gray [4] 9/4 85/10 85/17 86/12</p> <p>great [12] 7/9 9/5 9/24 10/12 10/13 17/12 18/2 18/19 24/5 26/5 30/20 134/19</p>
--	---	--

<p>G</p> <p>green [1] 76/10 ground [1] 22/12 group [3] 16/15 19/21 19/22 groups [2] 121/20 125/3 guards [2] 69/4 69/6 guess [15] 17/22 22/19 23/9 28/10 38/13 42/14 43/24 46/11 67/23 74/7 74/21 115/5 149/9 155/25 157/13 guest [1] 30/23 guidance [3] 21/14 105/18 123/7 guides [1] 109/23 gun [2] 94/20 94/21 guns [1] 57/18 guy [1] 76/16 guys [9] 54/5 60/21 89/9 98/1 110/17 131/13 140/16 141/9 154/25 gyroscope [1] 84/10</p>	<p>127/12 128/9 HBS [1] 66/16 he [17] 7/12 7/13 7/15 10/1 10/13 10/16 14/12 14/13 22/3 29/24 76/17 76/18 76/19 76/22 76/23 95/22 116/5 he's [4] 10/15 29/25 55/12 76/16 head [5] 49/14 98/14 98/19 99/2 120/18 heading [2] 23/24 23/25 headquarters [2] 156/10 156/12 healing [1] 64/13 health [19] 2/17 4/16 5/6 5/11 5/16 8/12 8/13 9/15 19/5 20/19 22/2 24/1 32/19 42/16 43/5 63/12 72/18 130/25 133/14 hear [4] 9/24 55/19 60/25 109/13 heard [9] 7/8 9/25 13/5 18/1 27/9 65/18 66/9 95/25 116/4 hearing [2] 78/22 103/10 heart [2] 22/8 99/24 heat [3] 97/21 99/10 109/25 heating [4] 86/17 99/16 101/6 113/21 heavily [1] 21/13 held [1] 29/24 helium [6] 87/11 93/7 93/8 101/10 111/3 111/8 help [6] 7/19 26/5 30/4 86/25 114/25 153/4 helped [4] 21/2 66/8 66/11 146/2 helpful [1] 147/14 helping [1] 155/5 helps [1] 80/12 Hence [1] 71/14 her [12] 7/9 7/19 30/6 30/7 30/18 94/19 94/20 145/5 145/6 145/7 146/3 148/11 here [47] 16/6 22/6 23/8 25/3 26/16 28/8 28/8 28/19 29/25 30/4 30/18 30/23 31/8 33/15 55/12 55/19 58/19 58/20 59/17 62/12 76/17 78/3 78/12 78/14 78/17 79/10 85/4 86/24 87/7 87/22 87/22 87/23 88/2 90/14 91/21 105/17 120/2 143/20 155/25 160/1 160/4 160/17 161/17 161/21 162/13 162/18 163/11 Here's [1] 40/3 hereby [1] 164/5 herself [1] 30/7 hey [1] 58/3 Hi [1] 30/22 hiding [1] 65/13 high [4] 31/1 102/5 105/19 108/9 higher [6] 61/18 62/24 62/25 67/23 83/15 161/1 highlight [1] 156/4 highlighted [4] 9/4 43/7 156/1 156/8 highlighter [1] 76/10 Hilton [1] 1/14 him [5] 7/15 10/24 17/13 22/16 41/20 hire [4] 24/3 50/7 50/21 50/22 hired [2] 7/11 26/15 his [7] 7/11 7/13 10/17 10/22 25/18 29/25 145/15 history [1] 10/1 hit [1] 147/4 hmm [3] 16/7 16/17 16/22 Hmmm [1] 67/14 hockey [1] 75/22 hold [4] 114/2 136/25 140/13 155/12 holding [3] 26/21 89/19 107/2 holes [2] 111/10 111/16 holster [1] 94/22 home [1] 161/18 homogeneity [1] 88/22 hope [2] 143/24 150/11 hopefully [7] 24/21 26/22 27/6 40/14 55/23 64/7 74/23</p>	<p>horse [1] 52/14 hospital [6] 26/16 26/17 38/21 102/12 113/3 117/23 hospital-based [1] 117/23 hospitals [5] 38/25 50/12 105/1 105/9 115/5 hotel [3] 77/13 78/2 161/7 hotels [1] 160/23 hour [6] 19/11 34/20 34/25 45/1 62/6 161/16 hours [9] 31/24 33/5 33/22 33/24 34/7 35/8 35/9 64/19 130/12 house [3] 27/11 109/3 109/6 housekeeping [4] 91/14 113/2 113/4 129/8 how [44] 10/19 11/7 12/18 13/3 19/9 19/15 24/13 31/12 33/21 44/5 51/15 52/10 52/11 54/8 55/3 55/4 58/23 62/20 66/19 68/11 68/12 69/12 69/14 79/17 81/20 84/4 84/4 84/5 89/11 91/18 92/22 92/25 110/15 112/10 116/7 117/12 122/16 124/24 125/2 125/2 130/13 131/17 139/2 163/1 However [3] 32/3 59/4 106/8 HPS [1] 59/23 huge [7] 39/4 72/13 81/4 96/16 160/10 160/22 162/10 human [2] 32/19 40/10 humans [1] 93/6 hump [1] 7/10 hundred [2] 90/5 162/16 hurt [1] 38/1 husband [2] 69/16 69/17 hydrogen [6] 79/21 81/24 82/2 82/4 82/13 82/20 hypo [1] 103/14</p>
<p>H</p> <p>had [73] 8/20 8/22 13/24 14/3 14/4 14/6 14/7 14/11 15/1 15/3 15/7 15/11 16/15 16/19 20/11 20/25 22/1 25/17 25/22 26/14 27/2 27/20 27/22 37/8 39/8 39/17 44/4 46/24 47/6 47/8 51/20 54/18 59/5 59/7 59/12 63/15 64/11 64/14 65/5 66/3 66/7 69/21 76/5 76/9 76/12 92/8 92/8 92/10 92/11 94/11 94/18 94/24 95/20 102/16 102/23 110/15 115/1 115/15 117/3 117/9 121/14 124/6 124/8 124/9 145/16 146/20 148/12 149/13 150/9 150/16 151/6 160/15 161/4 hadn't [1] 11/24 half [5] 19/11 49/5 127/11 154/3 154/3 Halifax [1] 4/16 hall [1] 96/2 hand [2] 16/10 91/2 handle [2] 110/15 111/7 handlers [2] 66/2 75/4 handout [1] 137/5 happen [8] 11/8 36/16 37/22 52/22 66/17 90/5 110/10 144/25 happened [6] 37/14 57/16 96/4 110/1 152/9 153/11 happening [5] 7/7 37/16 58/21 72/8 95/21 happens [6] 22/3 30/9 83/4 90/10 97/3 141/6 happy [5] 33/14 140/14 140/15 140/16 140/17 hard [5] 43/10 75/12 75/18 89/11 106/24 harmed [1] 90/9 Hart [2] 2/11 5/23 has [53] 7/8 8/12 9/15 10/13 10/13 13/4 15/1 17/10 27/17 29/24 30/6 30/20 31/16 32/4 32/21 39/6 39/8 39/21 40/20 43/4 44/12 48/19 50/21 51/3 51/21 53/5 66/8 66/11 73/19 77/22 81/24 83/13 90/8 92/8 103/10 105/3 105/21 106/13 106/14 107/25 109/9 119/5 122/13 125/8 130/2 131/14 134/9 145/22 150/7 152/10 153/6 157/20 159/17 hasn't [2] 36/17 39/21 hate [1] 37/17 have [335] haven't [3] 13/23 21/18 140/1 having [11] 8/18 9/9 33/9 46/5 46/9 50/5 71/3 77/12 112/5 113/22 146/1 hazard [3] 122/8 122/8 122/11 hazards [17] 30/2 40/3 41/10 41/14 46/19 48/20 49/23 111/3 112/2 120/13 120/20 121/13 122/13 123/6 126/11</p>	<p>I</p> <p>I'd [2] 61/6 111/25 I'll [17] 6/12 17/13 18/11 23/20 24/3 25/3 27/4 30/7 41/20 85/3 91/21 136/24 139/10 148/6 150/23 154/25 158/4 I'm [57] 4/10 4/12 4/19 4/19 4/23 4/25 4/25 5/4 5/4 5/8 5/17 5/17 5/23 6/22 7/22 7/23 7/23 8/24 14/21 17/3 23/8 23/25 28/7 30/14 42/7 45/14 45/23 46/4 46/11 50/17 52/19 52/20 55/23 59/15 59/20 61/16 61/19 62/11 63/18 64/7 65/8 66/13 69/1 76/19 81/9 82/17 94/9 106/4 108/14 128/10 131/17 140/15 144/18 146/4 149/1 150/6 154/4 I've [20] 8/22 14/4 21/1 22/1 30/24 31/2 31/4 31/5 31/5 31/7 66/9 70/12 73/4 105/16 112/3 116/22 118/8 151/20 151/25 163/5 I-4 [1] 161/16 ice [2] 99/4 99/12 idea [2] 78/10 148/22 identify [2] 42/13 46/4 ignore [1] 38/4 II [5] 10/7 107/3 107/11 107/16 109/7 III [6] 74/3 107/1 107/7 107/16 107/16 107/18 image [5] 42/3 62/13 79/23 80/4 83/20 images [10] 60/25 82/3 85/9 85/10 85/15 85/16 86/15 87/1 88/10 88/16 imagine [3] 65/3 93/11 102/2 imaging [15] 8/1 29/1 32/7 32/9 33/3 37/1 55/3 81/9 85/13 97/8 114/6 121/24 125/13 126/12 131/1 immediately [2] 38/23 119/6 impairment [1] 103/11 impeached [1] 141/12 implant [2] 40/20 100/6</p>	

I
implantable [1] 90/7
implanted [4] 99/24 100/12 100/17 101/1
implants [3] 40/9 104/7 105/5
importance [1] 46/5
important [6] 21/4 29/16 41/1 48/6
55/10 153/13
impressed [1] 10/23
improper [1] 110/5
improving [1] 33/14
in-between [1] 107/4
in-house [2] 109/3 109/6
inception [2] 30/11 30/12
inch [1] 90/13
incidents [1] 104/18
include [5] 24/25 39/6 41/7 123/14 129/7
included [2] 25/6 144/20
including [3] 47/12 99/13 129/2
incorporated [2] 53/7 124/25
incorrect [1] 152/14
incorrectly [1] 26/9
increase [4] 34/17 81/4 90/13 98/25
increased [3] 31/16 31/16 110/21
increases [3] 35/12 35/13 89/22
Index [1] 3/15
indicate [1] 61/25
indicating [1] 18/22
indication [1] 37/5
individual [3] 14/12 62/9 64/5
individuals [1] 123/17
induce [1] 100/11
induced [2] 99/9 100/15
induction [3] 49/13 85/2 100/4
industrial [2] 5/1 106/19
Inexpensive [1] 144/2
influence [1] 17/11
information [20] 8/11 11/25 12/22 13/10
14/4 15/3 15/9 16/2 16/5 17/5 18/24 26/25
52/2 52/21 63/23 108/8 145/15 145/19
148/15 157/1
informative [1] 11/5
informed [1] 12/2
initial [1] 130/20
initiation [1] 20/15
injured [1] 95/13
injuries [1] 49/2
inmate [1] 61/11
inmates [7] 60/14 63/3 63/8 64/19 65/13
66/7 66/25
Inn [1] 1/14
inpatient [1] 115/16
inside [6] 21/7 87/20 97/10 102/12
106/25 117/13
inspect [4] 53/11 72/3 73/9 73/9
inspected [4] 53/17 72/5 73/15 115/11
inspection [1] 37/9
inspectors [3] 70/8 73/9 73/12
installation [1] 71/25
instance [1] 145/13
instances [1] 110/4
instead [3] 127/7 134/10 140/10
institute [2] 5/2 115/13
institution [1] 31/22
instructions [1] 155/4
instructor [1] 31/5
instructors [1] 26/9
insurance [1] 115/1
insure [2] 134/16 134/20
intended [1] 107/9
intense [1] 41/20
intent [1] 43/16
interactions [1] 86/5

interest [1] 87/1
interested [3] 16/9 64/1 164/14
interesting [7] 38/18 64/14 64/15 66/12
67/13 67/21 68/3
interim [1] 31/25
internal [1] 20/25
interplay [1] 67/14
intraoperative [2] 109/8 116/9
introduce [2] 27/17 30/7
introductions [1] 4/6
invalidate [1] 56/14
investigation [1] 123/6
invite [1] 50/1
inviting [1] 30/22
involved [4] 40/6 44/23 123/6 152/23
involves [1] 120/10
ionizing [18] 29/1 39/19 41/8 47/1 47/5
47/11 49/12 53/13 53/18 56/18 74/12
97/19 110/18 114/12 114/13 114/23
114/23 124/5
IPad [1] 75/23
iron [2] 87/13 87/25
ironically [1] 146/10
is [405]
isn't [6] 28/11 37/3 53/18 72/13 114/8
126/2
issue [11] 25/10 25/22 28/3 38/8 38/9
39/20 50/14 103/7 117/23 124/14 126/8
issued [1] 6/25
issues [9] 8/4 8/25 41/24 43/7 79/9
109/18 109/19 110/11 115/10
issuing [1] 7/25
it [424]
it's [198]
it's part [1] 20/15
items [4] 97/6 101/7 104/14 137/4
its [1] 85/23
itself [22] 61/24 62/13 68/4 70/1 80/17
87/8 87/11 87/14 87/19 88/1 89/14 90/15
91/12 91/24 96/18 99/8 101/15 102/18
104/6 107/1 113/10 119/9
IV [6] 97/13 106/25 107/5 107/8 107/16
107/20

J
JA [1] 154/15
Jacksonville [2] 5/21 94/18
jail [1] 68/2
jails [3] 57/17 72/19 72/21
jails' [1] 66/21
James [10] 2/18 5/11 9/23 20/8 23/13
27/17 39/10 51/17 63/14 79/12
James' [1] 145/13
Janet [3] 145/20 151/23 151/24
janitor [1] 47/19
January [1] 6/24
jewelry [1] 69/22
Jim [1] 82/14
job [5] 26/20 49/20 50/23 73/7 90/2
joint [11] 24/24 36/11 36/12 37/8 38/4
39/3 44/19 103/20 104/21 105/14 124/15
JRC [2] 125/8 125/10
JRCERT [1] 39/5
July [2] 137/23 139/11
jump [2] 126/9 159/8
June [8] 19/18 137/23 139/6 139/7 139/8
139/9 139/11 164/15
just [111] 7/12 8/10 11/21 13/15 13/19
13/24 16/16 17/7 18/14 19/14 21/23 22/13
22/16 23/11 23/22 24/12 24/20 25/14 27/3
28/5 28/8 31/12 32/2 32/11 32/12 33/24
33/25 36/23 37/8 37/13 37/23 38/17 41/3
45/14 46/4 46/9 46/18 48/19 49/12 50/19

52/10 52/20 54/6 57/7 58/15 59/15 59/16
61/25 62/15 65/25 66/13 66/18 66/24
69/12 71/3 72/17 74/14 75/2 76/22 76/23
77/14 79/12 80/21 82/14 86/10 87/10
87/24 88/17 91/1 93/3 93/5 93/25 94/12
95/2 98/24 106/2 107/1 107/3 116/6
116/11 117/16 120/12 122/5 123/3 127/11
128/22 129/18 131/7 131/13 132/3 132/13
132/25 133/15 133/23 135/6 142/14 143/7
147/4 151/9 154/1 154/22 156/4 156/21
158/3 159/19 159/20 160/22 160/23
162/11 162/16 163/3
justify [1] 158/8

K
Kanal [2] 40/2 100/22
Kathleen [2] 2/6 147/24
Kathy [10] 4/19 6/10 27/18 49/4 144/12
145/3 146/2 146/4 153/4 155/5
Katy [1] 27/2
keep [9] 30/14 34/21 49/14 61/20 108/23
132/1 132/2 143/2 156/25
keepers [1] 106/18
keeping [7] 8/24 26/25 56/20 61/11 63/1
89/17 143/12
Keiser [3] 4/18 4/22 30/8
Kelly [3] 2/22 5/15 14/10
Kent [1] 2/10
key [2] 88/2 115/19
keys [1] 97/2
kg [6] 98/7 98/14 98/18 98/19 98/19
109/21
kill [1] 55/23
killed [3] 93/14 94/11 95/15
kind [39] 7/10 22/7 26/20 30/18 35/17
35/17 35/20 35/24 36/15 42/4 47/4 47/8
47/11 49/25 53/8 53/12 54/20 58/7 64/14
64/15 84/10 95/14 106/24 107/4 113/11
114/6 114/13 114/17 114/18 114/19
114/22 115/2 116/11 117/15 122/7 138/3
139/4 151/13 162/2
kindly [1] 30/17
kinds [7] 40/9 41/15 43/14 55/5 60/20
65/24 120/11
kinks [4] 9/2 144/19 150/9 152/21
know [115] 7/8 8/17 8/22 8/25 9/16 11/9
11/25 12/6 13/24 13/25 14/3 17/10 17/18
18/17 19/9 21/6 22/9 22/14 26/10 26/10
26/25 27/3 27/4 27/5 27/18 31/17 33/1
33/21 36/3 36/15 36/24 37/3 38/13 39/10
40/13 41/9 41/14 41/22 42/6 44/5 44/19
46/7 49/18 50/2 52/14 52/23 53/4 60/24
62/4 62/6 64/20 64/21 66/25 69/14 71/19
72/25 73/24 74/15 76/7 76/17 76/20 77/22
79/10 89/25 93/14 96/23 98/1 101/9
106/11 109/14 110/6 110/15 111/19 112/7
113/24 114/8 114/15 115/3 115/12 115/13
116/6 116/10 116/13 116/16 117/7 117/11
117/20 118/3 118/5 120/8 120/25 121/5
121/24 123/10 123/15 124/7 124/8 125/1
126/5 130/2 137/14 137/23 144/1 147/3
147/5 151/12 153/16 155/1 155/2 156/15
158/2 158/3 160/5 160/22 162/5
knowing [2] 10/19 10/19
knowledge [4] 30/21 35/13 37/11 112/20
knowledgeable [1] 36/23
known [2] 106/2 108/13
knows [3] 6/7 10/20 48/3

L
lab [1] 90/1
labeled [3] 96/8 96/9 105/19
Lagoutaris [2] 2/8 5/20

<p>L</p> <p>landscape [1] 46/21</p> <p>language [2] 69/25 70/3</p> <p>large [4] 1/25 76/12 79/18 80/22</p> <p>larger [3] 83/19 96/14 97/13</p> <p>Larmor [4] 81/15 82/12 82/22 108/24</p> <p>laser [4] 53/14 53/23 56/18 120/3</p> <p>lasers [2] 53/14 56/21</p> <p>last [23] 7/12 7/22 15/17 16/18 23/9 28/1 30/19 31/7 57/1 59/13 67/5 103/18 104/22 114/12 114/13 114/22 140/3 142/19 142/20 145/3 148/5 158/17 158/18</p> <p>late [2] 79/6 159/11</p> <p>later [3] 25/4 79/5 110/21</p> <p>lattice [1] 85/25</p> <p>Laughter [8] 20/2 67/15 69/10 75/14 75/24 131/19 141/8 141/13</p> <p>law [8] 22/8 27/22 46/24 47/4 47/9 49/10 57/16 114/15</p> <p>laws [3] 10/21 43/11 114/24</p> <p>lawyer [1] 49/13</p> <p>lawyers [2] 28/2 67/14</p> <p>leadership [4] 10/14 143/3 143/13 144/3</p> <p>leads [7] 99/8 99/11 99/20 110/5 110/7 110/12 110/12</p> <p>leak [1] 111/7</p> <p>learn [2] 16/11 115/15</p> <p>learning [3] 7/15 10/18 150/6</p> <p>least [9] 21/11 48/12 54/11 55/4 78/9 113/4 119/19 126/8 161/17</p> <p>leave [10] 20/3 25/3 65/10 77/22 77/23 78/11 78/13 126/6 133/15 162/6</p> <p>leaves [3] 57/1 77/19 95/3</p> <p>leaving [2] 20/5 79/10</p> <p>left [1] 113/20</p> <p>legal [3] 7/24 24/18 115/12</p> <p>legislatively [1] 42/24</p> <p>Legislature [3] 41/6 43/10 52/11</p> <p>legs [1] 99/13</p> <p>lens [2] 100/1 100/2</p> <p>less [7] 24/19 45/10 62/10 66/6 66/23 71/19 103/12</p> <p>let [13] 8/25 17/18 27/3 27/4 30/7 41/20 89/6 114/18 119/15 119/17 120/2 155/1 158/3</p> <p>let's [16] 28/8 28/9 46/16 49/14 68/4 75/11 78/15 101/22 114/18 114/18 126/5 142/6 143/11 158/14 158/21 159/16</p> <p>letter [1] 7/6</p> <p>letting [2] 26/21 26/25</p> <p>level [16] 33/16 38/11 38/12 38/12 48/13 55/5 56/11 56/11 56/23 59/10 62/24 63/1 67/23 109/7 109/7 110/19</p> <p>levels [2] 52/12 61/8</p> <p>levitational [1] 89/12</p> <p>license [23] 8/9 8/12 9/16 12/19 14/8 15/8 15/20 25/10 26/12 26/18 27/21 28/3 35/18 35/19 35/22 47/4 47/6 47/8 47/11 50/5 50/13 136/3 136/5</p> <p>licensed [22] 12/2 30/9 42/15 45/17 45/19 46/5 46/9 46/15 47/21 49/7 53/1 71/25 129/13 129/24 132/3 132/23 133/6 133/21 135/7 135/9 135/15 136/2</p> <p>licensees [1] 9/3</p> <p>licenses [4] 6/25 7/25 47/1 132/5</p> <p>licensing [5] 43/24 44/9 44/11 44/15 132/9</p> <p>licensure [12] 9/9 9/13 32/17 33/2 36/1 46/6 46/21 50/3 53/6 129/11 132/10 132/17</p> <p>lies [1] 79/19</p> <p>life [5] 21/8 92/3 110/22 115/22 153/19</p>	<p>light [1] 108/9</p> <p>lighter [1] 111/4</p> <p>lights [1] 55/24</p> <p>like [94] 6/25 18/22 20/1 22/20 23/14 27/17 30/19 31/2 34/8 35/12 35/17 37/13 37/23 38/4 41/23 46/8 49/4 49/17 49/22 50/19 51/17 52/12 53/2 53/10 54/1 57/18 63/23 64/23 66/14 67/10 68/1 71/16 72/13 72/19 74/17 76/16 76/19 77/5 82/16 82/20 84/10 90/11 93/20 94/12 94/23 95/12 99/5 99/24 100/13 100/14 102/18 102/24 103/15 106/10 106/19 107/2 107/11 107/13 107/16 108/6 109/22 109/23 110/2 110/23 110/25 111/4 111/5 111/7 111/23 112/21 113/7 114/12 114/24 117/22 118/12 119/1 122/1 123/10 126/3 126/9 132/11 137/6 142/23 148/2 149/11 150/14 150/25 151/10 151/15 151/20 154/22 158/4 158/5 161/14</p> <p>likelihood [1] 47/23</p> <p>limit [2] 98/13 98/14</p> <p>limited [1] 133/10</p> <p>limits [5] 59/22 98/17 98/23 98/24 109/21</p> <p>line [6] 28/5 90/12 91/11 131/24 137/19 152/3</p> <p>lineator [2] 75/25 76/1</p> <p>lined [1] 82/7</p> <p>lines [2] 29/23 90/4</p> <p>lining [1] 102/19</p> <p>link [6] 146/15 146/16 147/6 147/8 149/6 149/13</p> <p>lips [1] 59/5</p> <p>liquid [4] 86/7 93/11 101/10 101/12</p> <p>listen [1] 21/11</p> <p>lists [1] 45/24</p> <p>liters [2] 93/7 93/11</p> <p>lithium [1] 75/19</p> <p>little [34] 7/3 7/21 8/10 9/1 10/1 10/7 10/8 19/4 20/1 20/9 21/12 22/15 26/19 27/19 30/1 30/5 30/24 31/14 39/15 44/4 45/15 52/15 52/17 55/13 72/20 79/1 79/2 82/4 113/24 144/13 145/3 145/24 150/7 155/2</p> <p>live [4] 8/16 8/18 17/23 155/25</p> <p>loaded [1] 102/25</p> <p>located [2] 22/3 87/4</p> <p>location [2] 80/13 158/22</p> <p>locked [2] 107/18 107/22</p> <p>locks [1] 118/21</p> <p>log [1] 146/8</p> <p>long [18] 19/9 23/9 33/15 35/18 42/24 49/13 58/24 66/4 76/14 84/4 84/15 86/7 91/18 92/22 92/25 95/17 95/18 117/11</p> <p>long-term [1] 49/13</p> <p>longer [3] 7/24 13/8 65/23</p> <p>look [21] 25/3 28/2 35/4 39/15 41/14 48/7 48/19 49/20 52/8 69/12 70/6 74/17 77/15 93/20 100/25 110/1 110/3 114/7 117/14 120/19 123/4</p> <p>looked [4] 28/7 37/10 115/4 137/9</p> <p>looking [23] 7/14 10/11 11/24 26/3 39/25 41/22 48/2 62/8 76/9 80/18 80/21 81/22 82/4 84/2 86/16 87/24 88/24 89/1 95/24 99/21 106/12 117/2 158/24</p> <p>looks [4] 6/25 18/22 63/23 109/22</p> <p>loop [1] 99/15</p> <p>loops [1] 99/13</p> <p>lose [1] 93/8</p> <p>lot [36] 8/2 8/23 20/11 21/1 22/22 23/4 24/2 29/15 36/4 37/21 38/18 38/24 49/2 54/5 69/5 72/13 76/5 81/11 90/22 91/1 91/4 91/13 91/23 93/19 93/20 93/23 94/10</p>	<p>97/7 97/21 103/19 104/25 109/9 110/11 115/14 140/23 157/15</p> <p>lots [3] 18/24 18/24 22/1</p> <p>love [1] 131/18</p> <p>low [3] 57/23 71/18 93/7</p> <p>low-dose [1] 57/23</p> <p>Lowe [3] 2/14 4/17 27/17</p> <p>lower [3] 68/17 83/8 83/18</p> <p>luck [2] 24/7 161/5</p> <p>luckily [1] 90/11</p> <p>lucky [1] 9/18</p> <p>lunch [5] 23/1 77/3 77/13 77/21 78/16</p> <p>M</p> <p>M.D [3] 2/2 2/4 2/11</p> <p>M.Ed [1] 2/6</p> <p>ma'am [1] 33/18</p> <p>machine [6] 48/5 54/4 65/5 65/21 79/24 80/4</p> <p>machines [13] 53/1 53/11 57/4 57/15 57/19 57/22 57/23 71/20 71/21 73/14 73/18 73/21 93/15</p> <p>made [3] 12/20 40/10 82/1</p> <p>magnet [50] 40/12 79/18 80/6 81/19 82/19 83/16 86/18 87/10 87/14 87/19 87/20 88/4 88/8 88/17 89/12 89/14 89/18 89/19 90/16 90/17 90/19 90/22 91/3 91/12 91/16 92/1 92/2 92/13 92/16 94/4 94/5 94/25 96/24 97/4 97/4 97/10 98/2 100/7 101/11 101/15 102/15 104/13 104/15 105/16 105/23 106/22 106/22 113/8 113/9 113/14</p> <p>magnetic [50] 7/25 29/2 32/6 32/9 33/3 38/12 41/20 79/19 79/20 79/22 80/7 80/22 80/24 81/5 81/18 81/25 83/14 83/23 84/10 84/11 86/3 86/13 86/19 86/25 87/3 87/14 88/5 88/13 88/24 89/2 89/4 89/4 89/15 90/1 92/7 92/21 96/17 97/24 99/22 100/3 100/4 100/11 100/16 105/19 106/9 116/21 121/24 125/13 126/11 128/15</p> <p>magnetization [8] 83/12 83/13 83/18 83/21 83/22 85/2 85/5 85/22</p> <p>magnetized [1] 113/22</p> <p>magnets [9] 80/10 80/11 81/1 90/2 90/3 90/23 91/6 98/4 112/3</p> <p>mail [24] 7/13 9/7 12/18 17/16 17/18 18/6 18/11 26/14 144/21 145/17 146/14 146/15 146/16 146/24 147/20 148/13 148/18 149/6 150/19 155/11 155/13 156/21 156/24 159/20</p> <p>mailed [1] 158/2</p> <p>mailing [1] 145/18</p> <p>mails [4] 26/6 144/17 144/23 155/1</p> <p>main [9] 39/11 63/20 86/20 87/20 96/11 97/16 100/21 106/16 144/9</p> <p>maintain [2] 40/17 92/20</p> <p>maintained [1] 40/16</p> <p>maintenance [5] 93/14 111/2 111/8 111/9 111/25</p> <p>major [1] 67/18</p> <p>majority [1] 103/21</p> <p>make [43] 6/9 13/15 15/9 16/10 28/16 28/18 29/3 29/11 29/20 39/12 41/24 43/14 46/8 48/3 49/21 49/24 49/25 51/16 52/4 52/8 54/7 54/9 54/11 57/18 60/10 61/19 99/3 105/11 106/10 109/10 112/4 115/4 116/12 120/4 120/14 123/3 123/11 131/2 131/25 136/11 136/23 141/10 158/6</p> <p>make-up [2] 28/16 28/18</p> <p>makes [7] 24/2 43/8 112/18 119/18 137/21 140/12 140/19</p> <p>making [5] 26/4 39/2 73/22 106/21 138/15</p>
--	---	--

M	mechanisms [3] 108/15 120/21 121/12 med [1] 26/22 Medicaid [1] 32/23 medical [19] 5/18 5/24 7/17 10/15 20/20 30/1 35/10 42/2 55/2 57/14 57/21 59/22 71/2 71/7 71/12 90/7 106/20 121/5 124/20 Medicare [1] 32/23 medicine [7] 5/23 6/2 45/14 45/16 45/18 51/19 93/4 meet [7] 51/18 72/18 138/17 140/8 160/1 160/1 160/2 meeting [27] 4/2 7/16 7/23 10/10 19/16 23/3 23/6 25/16 29/18 50/4 52/23 55/25 59/6 59/13 76/25 77/19 95/3 114/2 123/8 139/11 145/2 154/5 154/9 158/6 158/21 159/22 161/1 meetings [13] 8/18 20/23 22/3 22/19 137/10 138/17 138/18 138/20 138/22 139/3 141/2 141/4 159/9 meets [1] 44/15 member [1] 4/20 members [5] 2/1 20/12 20/17 22/5 138/14 members' [1] 144/16 memorize [1] 18/13 mention [4] 17/2 17/9 18/21 53/4 mentioned [5] 27/20 28/6 53/18 63/15 106/1 menus [4] 77/9 77/10 77/14 77/17 merger [1] 20/25 mess [1] 82/15 messing [1] 94/5 met [2] 39/3 130/17 metal [8] 60/22 67/16 67/20 75/2 95/8 101/6 116/18 117/21 metals [1] 100/12 meter [2] 88/20 91/8 meters [1] 112/2 method [1] 104/16 Meyer [3] 1/24 164/5 164/19 MHz [2] 82/13 82/20 MHz/tesla [1] 82/13 Miami [1] 4/24 microM [1] 62/16 microR [5] 62/6 62/11 68/4 68/15 68/17 Microsoft [1] 131/14 mid [2] 31/10 114/15 mid-90s [1] 31/10 middle [3] 70/9 102/12 113/25 might [8] 19/15 56/14 79/10 90/24 113/19 132/6 132/20 145/10 mildly [1] 76/20 mileage [10] 151/7 151/16 152/14 155/16 155/21 155/23 156/4 156/6 156/19 156/20 miles [1] 160/14 military [2] 10/13 10/14 mill [2] 74/5 74/8 million [1] 48/5 minimal [1] 33/19 minimum [6] 29/5 33/13 48/14 72/18 120/16 131/11 minor [2] 87/3 162/19 minute [3] 15/21 30/19 136/25 minutes [6] 6/8 15/14 19/12 55/15 93/1 93/2 misunderstood [1] 138/20 mixes [1] 111/14 Mm [3] 16/7 16/17 16/22 Mm-hmm [3] 16/7 16/17 16/22 modalities [2] 32/17 33/10 modalities was [1] 33/10 modality [3] 36/4 46/18 48/19	model [1] 93/8 moderately [1] 15/10 moisture [1] 111/21 molecule [1] 81/24 molecules [1] 82/5 moment [3] 21/23 22/13 54/14 money [3] 24/2 36/5 66/19 monitoring [1] 57/5 months [6] 37/9 76/15 123/11 130/23 131/9 150/25 moons [1] 57/10 more [51] 8/2 9/2 9/13 10/7 10/8 16/18 18/20 21/21 24/2 32/1 32/13 34/1 36/2 36/23 39/15 39/22 41/1 41/4 41/7 46/7 49/2 50/3 52/1 52/2 52/17 52/23 55/19 67/20 74/5 74/8 85/10 85/11 85/12 86/5 90/10 96/25 97/7 98/3 98/24 110/17 112/4 117/3 122/19 125/25 128/5 137/2 137/19 137/21 140/23 143/21 153/13 morning [4] 6/22 79/7 79/15 162/6 most [27] 15/15 17/17 25/24 48/1 55/9 57/14 61/9 80/25 81/2 82/1 88/5 91/5 91/6 92/15 97/2 99/18 101/17 104/13 107/15 107/24 111/4 117/13 120/8 145/20 151/13 154/1 156/13 motion [11] 6/8 6/9 119/14 121/22 122/10 126/8 128/3 136/11 136/23 139/10 139/22 motions [2] 52/20 120/25 move [14] 22/21 24/16 29/17 51/12 52/3 55/11 55/20 55/21 90/13 100/1 100/2 100/6 141/25 143/2 moved [2] 26/22 40/4 moves [1] 151/23 moving [5] 21/20 21/20 26/7 56/15 114/17 MP [1] 2/3 MQA [4] 6/21 8/11 19/2 21/1 MR [94] 2/14 27/20 27/25 28/4 29/15 29/19 30/1 30/9 31/17 31/20 33/5 33/25 34/2 34/4 34/12 34/15 34/22 36/15 36/20 37/2 37/10 39/6 39/25 40/3 44/25 45/10 45/22 46/14 46/15 46/23 47/9 47/12 47/20 54/6 54/14 55/11 81/22 81/25 86/16 87/8 87/18 89/1 93/15 94/10 95/11 96/8 96/8 96/9 97/8 99/18 100/21 103/14 103/19 103/22 103/23 104/2 104/5 104/17 104/17 104/22 104/25 105/7 105/10 106/12 106/17 106/23 107/1 108/3 108/6 108/11 108/19 109/7 109/8 112/16 114/5 114/12 117/25 118/9 119/2 120/14 121/5 121/7 123/21 124/6 124/17 124/19 124/21 124/25 125/1 126/1 129/16 129/21 129/23 134/12 MR/CT [1] 31/20 MRI [57] 29/10 36/2 37/20 37/24 38/7 38/14 38/14 42/15 43/24 44/9 45/16 45/21 50/6 50/8 50/16 51/3 53/1 71/19 71/19 78/23 79/13 79/13 79/15 79/17 79/18 80/5 80/6 80/25 81/1 81/8 81/9 81/12 82/6 84/2 84/8 85/12 87/25 87/25 88/9 92/7 92/11 93/4 99/14 115/13 118/14 122/11 122/13 122/24 125/8 126/3 126/3 126/20 127/25 128/1 128/9 130/24 133/21 MRI-approved [1] 118/14 MRIs [2] 50/24 81/5 MRIsafety.com [1] 100/20 MRIT [1] 130/20 MsEd [1] 2/14 much [30] 9/2 9/22 23/8 26/24 32/1 33/12 34/1 37/16 40/25 41/1 41/13 45/10 55/2 56/7 56/7 81/10 84/4 84/5 91/10 93/8 96/19 109/12 110/22 114/25 116/7 119/8
----------	--	--

<p>M</p> <p>much... [4] 124/24 130/9 151/16 156/16</p> <p>multi [1] 48/5</p> <p>multi-million [1] 48/5</p> <p>Multiply [1] 93/12</p> <p>Munroe [1] 5/18</p> <p>muscle [1] 86/12</p> <p>must [2] 83/21 135/18</p> <p>my [36] 11/25 12/18 13/18 14/4 14/25 15/19 15/19 20/23 22/8 22/21 23/20 23/25 31/3 31/9 31/14 42/14 58/18 69/16 69/17 74/6 75/10 114/10 120/18 134/4 140/21 146/25 147/20 148/8 151/4 151/9 152/13 152/14 153/19 159/22 160/8 164/8</p> <p>myself [5] 12/12 13/23 30/24 41/5 73/4</p>	<p>25/6 26/23 27/13 27/16 64/8 75/11 75/18 75/22 96/23 114/2 120/1 123/8 144/10 145/2 151/23 154/5 155/6 158/21 161/4</p> <p>nice [11] 16/13 19/24 23/16 24/2 37/3 88/24 94/5 151/8 152/22 153/2 161/24</p> <p>nicely [1] 151/5</p> <p>nine [2] 7/3 7/7</p> <p>nitrates [1] 76/23</p> <p>nitrogen [4] 87/12 93/9 101/9 111/14</p> <p>NMR [1] 29/9</p> <p>NMTCB [7] 24/12 24/17 24/23 24/25 25/8 25/25 131/1</p> <p>no [65] 6/17 7/24 9/24 12/11 12/11 13/8 15/6 17/3 18/16 20/4 22/12 27/1 35/18 42/8 44/22 45/12 45/18 47/10 47/22 49/9 49/13 50/20 57/18 61/1 63/5 66/18 69/11 70/8 74/7 78/25 89/7 90/19 106/6 106/6 106/21 108/3 108/13 110/22 111/10 114/10 117/7 119/16 136/6 136/21 139/15 139/20 142/5 142/10 143/10 143/17 144/8 144/8 146/25 147/13 148/22 149/20 150/10 151/4 152/23 153/12 155/17 155/19 158/19 162/14 163/16</p> <p>nobody [2] 90/8 111/24</p> <p>noise [6] 89/5 93/19 103/8 103/9 104/10 105/8</p> <p>non [19] 20/20 29/1 37/7 41/8 47/11 53/13 53/18 56/18 70/24 70/25 71/2 79/4 97/19 99/25 100/5 104/4 114/12 114/13 116/3</p> <p>non-diagnostic [1] 37/7</p> <p>non-ferrous [2] 99/25 100/5</p> <p>non-ionizing [9] 29/1 41/8 47/11 53/13 53/18 56/18 97/19 114/12 114/13</p> <p>non-medical [2] 20/20 71/2</p> <p>non-patient [1] 104/4</p> <p>non-physician [2] 70/24 70/25</p> <p>non-technical [1] 79/4</p> <p>non-technologist [1] 116/3</p> <p>none [2] 66/9 114/23</p> <p>norm [1] 76/21</p> <p>normal [2] 74/3 111/25</p> <p>normally [5] 82/5 84/7 91/22 98/3 154/14</p> <p>north [1] 38/17</p> <p>not [138] 7/22 8/3 8/6 8/19 11/14 11/17 15/13 17/3 17/21 18/14 23/8 26/16 28/12 28/13 29/8 30/19 32/1 32/23 33/12 34/22 36/6 37/14 37/23 40/11 40/12 40/13 41/18 42/7 42/8 42/17 44/8 45/14 45/16 45/23 47/18 47/21 48/1 49/4 49/16 49/18 50/5 50/12 50/13 50/17 52/13 52/19 52/22 54/24 55/12 55/24 56/3 58/8 58/18 58/24 59/5 60/14 61/19 61/24 63/13 65/9 65/10 65/25 67/17 69/5 69/19 70/18 71/20 73/6 78/24 82/10 89/18 90/21 90/24 90/25 91/9 91/22 92/16 92/17 93/3 93/4 93/5 95/6 95/17 95/22 95/25 97/5 101/3 105/2 105/10 107/9 107/9 107/22 107/25 109/11 111/10 111/23 112/21 112/25 113/8 115/7 117/6 117/13 117/16 118/16 119/8 120/2 121/21 122/1 122/6 126/17 130/9 130/9 131/18 144/4 144/18 144/25 146/14 146/20 146/20 147/11 148/19 149/18 150/9 151/14 152/13 152/15 153/10 153/15 154/15 155/19 160/8 160/10 160/13 161/3 161/3 161/6 162/10 164/10</p> <p>Notary [1] 1/24</p> <p>note [1] 152/18</p> <p>notes [5] 22/22 152/8 152/15 154/25 164/9</p> <p>nothing [2] 37/20 53/12</p> <p>notice [5] 29/23 58/18 86/2 90/1 93/23</p>	<p>noticed [1] 158/10</p> <p>noticing [1] 111/24</p> <p>notified [1] 11/8</p> <p>now [68] 6/6 7/10 8/5 8/7 8/22 9/20 12/19 17/17 18/15 25/9 31/17 31/25 32/5 32/22 33/4 34/15 34/24 35/22 35/22 38/10 40/14 42/17 47/17 50/1 51/7 55/20 57/11 70/14 71/8 72/6 72/7 73/11 73/17 74/2 78/22 82/16 90/1 91/6 93/19 96/5 98/20 104/20 105/15 105/21 106/23 107/15 113/20 115/23 119/14 123/8 123/12 124/10 124/16 137/2 137/3 138/1 139/1 140/2 142/16 144/20 146/1 146/20 148/4 148/22 153/14 153/21 154/17 160/5</p> <p>NTCB [1] 124/4</p> <p>nuclear [8] 5/23 6/1 29/1 45/14 45/16 45/18 49/3 51/19</p> <p>nuclei [2] 79/21 82/19</p> <p>nucleus [1] 82/11</p> <p>nuke [1] 26/22</p> <p>number [13] 28/25 39/1 52/6 52/10 58/10 59/19 64/5 72/16 86/23 113/17 117/10 130/10 137/10</p> <p>numbers [5] 18/24 19/1 44/3 148/15 156/24</p> <p>nurse [2] 95/25 116/3</p> <p>nurses [3] 35/11 95/23 116/10</p>
<p>N</p> <p>N43 [2] 60/1 60/2</p> <p>N43-009 [1] 60/2</p> <p>name [24] 7/11 18/14 25/18 29/9 58/18 145/14 146/8 146/9 146/19 146/23 147/9 147/17 148/8 148/11 148/13 149/12 149/19 149/21 150/3 150/22 150/23 151/1 151/2 154/23</p> <p>names [7] 144/16 144/20 148/7 148/13 148/19 148/21 148/22</p> <p>narrow [1] 71/5</p> <p>Nasio [1] 63/21</p> <p>national [36] 25/11 33/16 44/16 44/24 46/2 46/3 46/6 46/10 46/25 47/3 47/25 48/7 48/12 50/22 51/3 51/22 52/24 55/5 56/10 56/11 56/20 59/9 95/14 121/8 122/15 122/17 123/15 125/2 126/1 127/20 129/10 129/18 132/3 132/13 132/15 161/18</p> <p>nationally [12] 123/18 123/20 125/3 127/21 127/22 129/16 129/16 132/7 132/8 132/9 132/16 135/8</p> <p>natural [2] 32/16 68/10</p> <p>naturally [1] 68/6</p> <p>nature [3] 65/12 91/15 113/6</p> <p>nay [1] 143/16</p> <p>NCHBS17 [1] 62/16</p> <p>NCHBS17-2009 [1] 62/16</p> <p>necessarily [2] 21/10 34/22</p> <p>necessary [1] 101/20</p> <p>necklace [1] 113/18</p> <p>need [29] 15/18 15/19 17/14 21/12 33/1 48/18 51/25 52/1 52/6 58/13 61/20 63/12 65/16 69/6 78/4 115/20 119/22 120/20 121/11 123/5 136/14 137/4 144/23 148/6 148/20 155/15 156/11 156/15 157/1</p> <p>needed [7] 44/14 52/4 71/15 72/18 75/19 84/1 112/24</p> <p>needs [6] 115/4 121/3 122/2 144/25 148/25 156/14</p> <p>negative [1] 144/4</p> <p>neighborhood [1] 53/22</p> <p>Neither [1] 58/19</p> <p>Nesmith [2] 2/22 5/15</p> <p>net [4] 83/11 83/13 83/18 85/5</p> <p>network [1] 110/4</p> <p>neuro [2] 100/13 110/13</p> <p>never [7] 64/21 65/5 73/4 134/7 148/3 153/18 158/10</p> <p>new [21] 8/15 13/17 13/20 14/19 15/3 15/7 24/24 28/11 44/7 44/18 50/7 77/5 93/7 94/5 95/5 95/8 110/2 124/15 138/24 140/4 149/22</p> <p>newer [2] 22/7 93/17</p> <p>news [4] 7/18 9/24 14/19 95/15</p> <p>next [24] 6/20 7/16 19/25 24/11 24/22</p>	<p>nobody [2] 90/8 111/24</p> <p>noise [6] 89/5 93/19 103/8 103/9 104/10 105/8</p> <p>non [19] 20/20 29/1 37/7 41/8 47/11 53/13 53/18 56/18 70/24 70/25 71/2 79/4 97/19 99/25 100/5 104/4 114/12 114/13 116/3</p> <p>non-diagnostic [1] 37/7</p> <p>non-ferrous [2] 99/25 100/5</p> <p>non-ionizing [9] 29/1 41/8 47/11 53/13 53/18 56/18 97/19 114/12 114/13</p> <p>non-medical [2] 20/20 71/2</p> <p>non-patient [1] 104/4</p> <p>non-physician [2] 70/24 70/25</p> <p>non-technical [1] 79/4</p> <p>non-technologist [1] 116/3</p> <p>none [2] 66/9 114/23</p> <p>norm [1] 76/21</p> <p>normal [2] 74/3 111/25</p> <p>normally [5] 82/5 84/7 91/22 98/3 154/14</p> <p>north [1] 38/17</p> <p>not [138] 7/22 8/3 8/6 8/19 11/14 11/17 15/13 17/3 17/21 18/14 23/8 26/16 28/12 28/13 29/8 30/19 32/1 32/23 33/12 34/22 36/6 37/14 37/23 40/11 40/12 40/13 41/18 42/7 42/8 42/17 44/8 45/14 45/16 45/23 47/18 47/21 48/1 49/4 49/16 49/18 50/5 50/12 50/13 50/17 52/13 52/19 52/22 54/24 55/12 55/24 56/3 58/8 58/18 58/24 59/5 60/14 61/19 61/24 63/13 65/9 65/10 65/25 67/17 69/5 69/19 70/18 71/20 73/6 78/24 82/10 89/18 90/21 90/24 90/25 91/9 91/22 92/16 92/17 93/3 93/4 93/5 95/6 95/17 95/22 95/25 97/5 101/3 105/2 105/10 107/9 107/9 107/22 107/25 109/11 111/10 111/23 112/21 112/25 113/8 115/7 117/6 117/13 117/16 118/16 119/8 120/2 121/21 122/1 122/6 126/17 130/9 130/9 131/18 144/4 144/18 144/25 146/14 146/20 146/20 147/11 148/19 149/18 150/9 151/14 152/13 152/15 153/10 153/15 154/15 155/19 160/8 160/10 160/13 161/3 161/3 161/6 162/10 164/10</p> <p>Notary [1] 1/24</p> <p>note [1] 152/18</p> <p>notes [5] 22/22 152/8 152/15 154/25 164/9</p> <p>nothing [2] 37/20 53/12</p> <p>notice [5] 29/23 58/18 86/2 90/1 93/23</p>	<p>O</p> <p>o'clock [2] 78/3 78/7</p> <p>O2 [2] 37/25 112/1</p> <p>obey [2] 58/9 70/20</p> <p>object [3] 90/16 92/25 104/12</p> <p>objects [5] 65/4 66/3 97/13 99/24 105/7</p> <p>observed [1] 108/14</p> <p>obviously [6] 42/17 48/22 55/7 83/14 117/1 117/21</p> <p>Ocala [2] 5/19 161/18</p> <p>occur [1] 110/24</p> <p>occurred [2] 95/5 110/24</p> <p>occurring [1] 68/7</p> <p>October [9] 6/8 15/16 50/4 137/11 137/13 138/22 158/23 159/1 159/8</p> <p>off [21] 34/11 35/20 59/7 77/14 80/2 84/19 84/21 84/23 84/23 85/23 86/21 90/17 91/25 91/25 93/8 94/20 94/22 95/1 95/24 114/2 123/24</p> <p>offense [1] 67/23</p> <p>offered [1] 16/14</p> <p>office [3] 43/9 89/16 121/23</p> <p>officer [3] 38/15 69/17 94/18</p> <p>officers [2] 61/2 65/20</p> <p>offices [1] 59/11</p> <p>official [1] 69/8</p> <p>officially [1] 71/1</p> <p>often [2] 21/19 62/20</p> <p>oh [9] 13/20 18/14 18/16 49/7 76/19 78/13 113/19 117/7 142/18</p> <p>okay [62] 6/6 6/13 6/18 11/6 13/20 14/14 15/25 17/12 19/14 24/11 27/16 29/12 31/12 45/9 45/20 46/17 46/20 55/18 78/15 82/16 89/7 103/4 113/19 127/11 128/2 131/20 134/6 136/9 136/22 137/3 138/19 138/20 138/20 139/13 139/21 139/23 142/2 142/6 142/18 143/8 143/11 143/18 144/5 147/11 147/14 148/1 149/8 149/16 150/6 150/23 154/6 155/18 158/11 158/13 158/20 159/16 159/25 162/20 162/23 163/10 163/13 163/17</p> <p>old [8] 15/8 95/7 102/15 102/16 105/20 158/14 158/15 158/19</p> <p>once [17] 9/1 12/15 84/15 84/19 85/20 91/10 92/1 92/15 145/24 146/18 149/15</p>

O
once... [6] 149/16 150/4 151/5 151/22 153/2 154/16
one [105] 8/20 9/5 9/18 14/11 14/11 14/12 15/10 15/20 16/15 16/16 16/18 16/18 18/20 19/1 19/17 19/20 21/2 22/7 26/14 27/7 28/16 28/24 29/13 31/12 33/14 36/11 37/17 38/3 38/16 38/16 39/1 40/4 40/6 40/7 41/9 43/25 46/12 46/22 48/7 53/5 53/7 53/15 55/1 56/6 56/24 60/21 61/9 61/12 62/2 63/14 63/18 64/10 64/12 64/16 67/5 68/2 68/5 68/6 69/21 69/23 70/9 70/23 73/1 73/4 78/3 78/17 82/7 92/7 92/10 93/10 94/8 94/9 95/4 95/14 95/23 96/10 97/14 97/16 100/19 100/21 100/22 106/21 110/2 113/3 114/12 116/13 119/2 121/8 121/9 124/14 125/25 127/16 128/5 129/19 133/20 137/8 137/19 139/8 139/9 144/4 144/22 145/6 146/12 148/5 157/25
one-week [1] 31/12
ones [9] 28/11 37/18 63/15 68/10 68/17 69/7 81/2 95/14 154/7
online [12] 8/11 8/15 11/1 11/10 11/13 11/18 11/20 12/19 13/4 13/7 17/20 153/24
only [17] 53/15 60/13 71/6 72/24 73/1 77/11 83/22 86/21 90/21 107/19 112/2 114/9 123/17 141/1 141/4 155/16 160/8
open [4] 18/15 22/16 75/8 101/17
operate [6] 29/9 60/22 62/12 115/20 123/21 123/22
operating [7] 24/14 41/25 61/3 74/15 115/25 121/10 133/23
operation [5] 11/21 111/25 126/12 129/14 159/4
operational [5] 128/25 129/1 129/3 129/6 132/20
operations [1] 116/2
operator [4] 74/6 74/9 128/23 129/5
operator's [1] 54/3
operators [3] 128/1 130/1 132/23
opportunity [1] 149/18
opposed [6] 6/16 71/3 136/20 139/19 142/9 143/15
opposing [1] 100/4
opposite [1] 110/23
Optimal [1] 134/21
option [1] 11/14
ORANGE [1] 164/3
order [7] 25/23 52/3 73/12 123/13 123/16 123/16 125/20
ordered [2] 70/24 70/25
ordering [1] 37/2
organization [6] 16/21 54/12 59/10 59/11 124/2 136/3
organizations [1] 121/14
orientations [1] 82/6
oriented [1] 86/3
Orlando [2] 4/11 160/2
orthopedics [1] 4/13
OSHA [1] 103/12
other [41] 14/5 14/24 18/1 33/9 39/4 40/9 43/23 44/5 49/11 53/3 53/7 60/18 64/1 73/13 73/18 82/21 86/5 91/1 94/23 99/6 100/22 101/8 103/5 103/7 108/4 111/3 112/2 112/22 117/18 120/13 124/4 126/7 129/8 132/5 132/25 140/6 149/13 152/11 154/12 159/9 161/21
otherwise [3] 37/6 163/3 163/15
our [45] 4/2 6/24 8/20 10/18 10/19 10/20 12/19 13/24 25/12 31/15 31/16 32/4 32/4 32/17 33/14 36/17 38/16 39/11 43/2 43/22 44/16 49/23 51/8 51/11 53/21 56/9 56/21

59/7 59/9 59/9 62/15 63/20 64/1 64/14 69/19 73/12 79/3 81/1 123/4 137/4 138/2 138/6 138/24 139/3 150/22
out [80] 6/2 8/5 8/7 8/14 8/19 9/16 12/9 13/13 13/14 16/10 16/20 19/15 21/3 24/14 25/24 28/12 35/5 35/10 35/20 40/1 41/24 43/22 45/24 53/11 53/16 53/22 54/5 64/3 65/4 73/5 73/9 74/20 74/23 75/10 76/19 76/20 77/6 77/7 79/7 81/13 83/25 84/9 88/4 90/4 90/6 91/2 91/4 94/22 95/10 96/2 100/7 100/24 101/19 101/20 103/22 103/24 104/6 107/25 111/15 114/19 117/25 118/6 118/19 118/20 118/22 122/4 123/16 139/2 144/15 144/16 144/19 150/9 152/21 153/3 154/25 157/12 157/14 157/23 158/4 158/21
outcome [3] 66/7 113/1 164/14
outdoors [1] 93/17
outlandish [3] 151/20 151/25 152/1
outlines [1] 62/2
Outpatient [1] 115/16
outside [13] 41/23 44/19 87/14 91/24 94/7 107/2 107/3 112/22 114/14 115/6 145/9 145/16 156/17
over [25] 5/5 9/25 15/5 20/12 20/14 20/17 20/19 20/24 21/1 21/18 22/2 25/3 30/13 53/5 59/12 62/3 62/22 72/15 76/14 76/16 76/17 81/9 86/4 88/20 137/6
overall [3] 79/17 83/13 86/13
overboard [1] 18/25
overlap [1] 141/5
overriding [1] 63/12
overseeing [1] 58/11
oversight [1] 115/21
overview [4] 78/23 79/13 80/5 108/18
own [5] 9/4 9/6 64/2 74/7 114/10
owned [1] 157/11
oxygen [15] 94/16 95/4 95/8 95/20 95/22 95/23 96/1 96/7 96/9 96/20 96/20 111/13 112/24 116/5 116/6
oxygen-deficient [1] 111/13
oxygenator [1] 94/12

P
p.m [3] 1/20 78/19 163/20
PA [1] 2/15
PA-C [1] 2/15
pacing [1] 100/14
packet [1] 22/23
packets [2] 18/21 159/1
packs [1] 99/12
page [4] 3/2 19/1 19/2 19/6
Pantheon [1] 49/18
paper [11] 11/15 11/16 11/18 146/2 150/13 151/10 153/16 154/4 154/5 154/14 155/8
paper's [1] 152/23
paperwork [2] 78/11 153/24
parallel [1] 123/24
paraplegics [1] 41/19
Pardon [2] 155/22 157/6
parking [3] 161/21 161/22 163/9
part [26] 15/11 20/15 21/4 26/22 41/7 48/1 49/18 58/9 58/11 73/25 74/2 74/3 74/3 80/17 104/21 109/12 109/13 112/15 113/25 118/5 120/4 120/9 142/15 147/4 154/12 159/11
particular [4] 29/6 29/18 60/20 117/15
parties [2] 164/11 164/12
partly [1] 44/18
parts [2] 98/25 115/1
party [1] 16/20
pass [1] 77/7

passed [1] 77/6
passes [1] 139/22
passive [1] 132/11
password [15] 13/8 146/8 146/9 146/19 147/5 147/6 147/10 147/17 147/21 149/3 149/5 149/10 149/15 149/17 149/22
passwords [2] 150/19 150/20
past [4] 28/17 95/13 138/25 150/14
Pat [1] 4/9
patches [1] 101/5
path [1] 48/11
patient [44] 35/14 36/14 37/18 37/24 38/9 40/20 40/23 46/12 50/12 79/19 79/20 79/25 80/17 87/9 95/15 95/21 99/6 99/11 101/19 104/4 104/4 110/7 112/18 113/21 115/11 117/24 118/6 118/10 119/5 123/13 123/17 126/21 126/23 126/25 127/8 128/14 128/17 128/19 128/21 128/25 134/16 134/18 134/20 134/21
patients [26] 38/1 40/23 41/17 42/1 63/7 99/4 99/19 100/7 103/14 104/10 104/11 104/23 104/25 105/4 105/5 106/6 107/19 107/24 108/7 108/10 109/20 110/4 110/13 116/19 117/19 121/11
Patricia [1] 2/5
Patty [1] 4/10
Paul [8] 2/12 6/4 20/1 20/5 21/19 22/2 23/24 158/18
Paul's [1] 22/6
pay [2] 72/7 163/9
PDF [1] 152/25
Peak [1] 98/18
pediatric [1] 104/11
penal [2] 60/14 69/20
pencil [2] 73/2 73/3
people [54] 9/5 11/17 12/1 15/1 16/15 17/17 18/10 18/18 21/8 21/10 26/7 26/8 29/8 35/2 35/23 36/22 36/23 36/24 37/11 39/13 41/25 44/21 49/5 52/16 54/21 55/4 57/20 58/19 60/24 65/6 65/25 68/23 69/12 73/20 74/15 74/22 91/14 93/23 95/13 97/1 101/19 112/5 112/21 112/22 113/17 117/3 117/9 118/17 121/7 122/14 133/23 140/12 145/9 145/15
people's [1] 90/7
PeopleFirst [2] 145/12 145/15
per [14] 62/6 62/17 62/18 62/19 63/9 64/5 64/18 68/5 68/15 68/17 68/19 88/18 88/20 97/23
percent [1] 21/11
percentage [1] 19/2
perception [1] 114/4
perfect [1] 134/23
perfectly [1] 37/5
performed [2] 107/8 133/21
performing [3] 51/2 90/25 125/19
perhaps [3] 29/19 54/13 126/7
period [3] 92/2 132/20 148/25
peripheral [2] 113/11 113/12
permanent [1] 103/11
permitting [1] 71/12
perpendicular [1] 83/23
person [23] 10/2 14/20 20/13 26/14 30/9 50/7 50/21 60/8 60/8 62/17 63/4 63/5 65/10 65/22 67/24 68/2 69/21 76/5 112/17 120/15 139/25 140/9 151/23
person's [2] 18/15 141/21
personal [6] 21/14 55/21 70/12 157/11 157/23 157/24
personnel [28] 29/4 29/5 29/21 52/18 53/6 57/8 66/23 104/3 104/5 107/19 120/23 121/6 122/7 122/9 123/14 124/5 129/24 130/1 132/4 132/11 132/12 132/24

<p>P</p> <p>personnel... [6] 132/25 133/16 133/17 133/22 134/7 134/11</p> <p>persons [1] 121/10</p> <p>perspective [1] 79/16</p> <p>perspectives [1] 80/21</p> <p>pertain [1] 19/1</p> <p>perturb [1] 83/21</p> <p>PET [3] 28/1 51/18 51/19</p> <p>petition [1] 25/2</p> <p>ph [2] 23/9 63/21</p> <p>Ph.D [1] 2/10</p> <p>phases [1] 9/17</p> <p>phasing [2] 86/2 86/4</p> <p>phenomenally [1] 160/25</p> <p>philosophy [2] 114/17 116/12</p> <p>phone [2] 156/24 162/12</p> <p>phones [2] 97/2 109/23</p> <p>Phosphate [1] 5/1</p> <p>physical [3] 120/12 126/11 127/12</p> <p>physically [1] 21/20</p> <p>physician [4] 4/12 5/24 70/24 70/25</p> <p>physicist [3] 5/11 20/19 22/2</p> <p>physicist's [1] 38/12</p> <p>physicists [3] 30/1 38/17 44/20</p> <p>physics [7] 6/2 36/10 79/13 81/10 82/16 108/19 109/11</p> <p>pick [3] 12/15 43/6 162/13</p> <p>picked [2] 110/6 163/8</p> <p>picture [2] 79/17 136/25</p> <p>pictures [1] 97/15</p> <p>piece [2] 76/9 153/15</p> <p>pieces [3] 94/6 144/9 155/13</p> <p>piercings [1] 101/4</p> <p>pin [1] 97/9</p> <p>Pines [1] 5/24</p> <p>pinned [1] 116/19</p> <p>pipe [1] 102/9</p> <p>place [9] 39/9 59/20 60/17 69/20 72/12 103/22 103/25 112/5 162/25</p> <p>placed [3] 80/16 87/9 87/20</p> <p>places [4] 57/18 57/21 65/14 67/14</p> <p>plan [2] 162/21 162/21</p> <p>planned [1] 140/5</p> <p>planning [1] 125/15</p> <p>plaque [1] 23/15</p> <p>platform [1] 60/21</p> <p>play [3] 89/6 93/4 93/5</p> <p>Played [4] 89/8 94/2 101/24 102/6</p> <p>pleasure [2] 21/25 22/18</p> <p>plugs [1] 103/16</p> <p>plus [3] 10/15 33/6 93/9</p> <p>podiatrist [1] 5/21</p> <p>point [20] 24/10 25/5 32/12 32/16 35/21 38/20 42/21 66/6 77/20 112/23 121/1 122/21 126/6 137/15 141/17 149/19 149/25 156/10 156/11 160/10</p> <p>points [2] 91/9 98/12</p> <p>pole [1] 97/13</p> <p>police [1] 94/18</p> <p>policies [3] 103/23 104/9 105/6</p> <p>policy [1] 119/4</p> <p>Polytechnic [1] 5/2</p> <p>pool [2] 111/8 111/15</p> <p>poor [1] 30/13</p> <p>populate [1] 147/23</p> <p>populated [3] 147/1 147/23 151/6</p> <p>populates [2] 148/9 148/10</p> <p>population [1] 50/15</p> <p>portable [1] 75/12</p> <p>portal [4] 8/15 11/1 12/12 12/13</p> <p>position [5] 7/11 26/21 31/3 99/19</p>	<p>140/13</p> <p>positioning [1] 99/19</p> <p>positions [2] 20/18 31/4</p> <p>positive [2] 46/7 117/21</p> <p>positives [1] 46/8</p> <p>possibility [1] 125/21</p> <p>possible [1] 48/11</p> <p>possibly [1] 121/22</p> <p>post [3] 32/11 45/8 46/1</p> <p>postcard [1] 12/24</p> <p>postings [2] 105/13 105/14</p> <p>potential [3] 37/21 96/12 106/3</p> <p>potentially [4] 99/14 103/11 104/15 140/22</p> <p>POV [1] 157/11</p> <p>PowerPoint [1] 30/20</p> <p>practice [12] 5/21 25/13 25/13 25/15 26/1 30/5 118/21 119/5 120/5 120/9 121/5 124/20</p> <p>practices [1] 108/5</p> <p>practitioners [1] 133/6</p> <p>pray [1] 150/11</p> <p>pre [2] 85/2 147/23</p> <p>pre-induction [1] 85/2</p> <p>pre-populated [1] 147/23</p> <p>precess [1] 82/22</p> <p>precessing [4] 82/8 82/23 83/5 84/9</p> <p>predecessors [1] 21/3</p> <p>prefer [5] 11/17 108/10 150/19 160/4 161/6</p> <p>preference [3] 160/3 160/8 161/12</p> <p>pregnant [11] 104/10 106/1 106/6 106/7 107/23 107/23 107/25 108/1 108/3 108/7 108/10</p> <p>prepare [1] 151/11</p> <p>prepared [2] 145/4 151/10</p> <p>prescreen [1] 116/23</p> <p>present [4] 2/1 23/15 43/20 56/3</p> <p>presentation [4] 25/17 36/10 58/16 58/25</p> <p>president [1] 17/4</p> <p>pressure [1] 102/5</p> <p>pretend [1] 153/10</p> <p>pretty [11] 9/19 9/22 33/19 65/3 90/4 93/13 103/4 111/14 131/8 151/16 156/16</p> <p>prevent [3] 37/15 69/5 110/20</p> <p>previous [2] 25/16 96/15</p> <p>previously [1] 124/6</p> <p>primarily [2] 88/5 109/15</p> <p>primary [10] 32/11 33/10 45/8 45/19 45/21 46/1 80/6 86/18 89/1 109/16</p> <p>print [2] 9/10 11/15</p> <p>printed [1] 77/14</p> <p>prior [2] 70/5 154/11</p> <p>private [2] 5/21 114/19</p> <p>privately [1] 157/11</p> <p>probable [1] 52/6</p> <p>probably [25] 15/15 22/11 24/20 25/5 27/18 35/25 39/21 47/18 55/12 60/3 61/7 66/22 69/23 70/16 72/7 75/16 77/21 93/18 97/6 114/5 148/5 153/13 156/9 160/20 161/22</p> <p>problem [14] 27/1 35/16 69/11 72/20 92/10 92/14 96/21 113/5 137/25 138/5 145/8 159/18 159/19 162/14</p> <p>problematic [1] 159/4</p> <p>problems [8] 8/20 8/23 14/6 14/7 86/20 91/13 91/13 138/4</p> <p>procedure [2] 95/20 103/14</p> <p>procedures [6] 28/21 29/4 29/21 73/17 120/16 120/24</p> <p>proceed [1] 51/15</p> <p>proceedings [6] 55/16 55/17 78/18 78/19</p>	<p>163/20 164/7</p> <p>process [16] 7/6 16/12 26/1 35/3 35/10 42/25 52/16 56/1 56/8 56/13 56/15 56/24 91/19 119/24 139/1 144/14</p> <p>processes [1] 5/6</p> <p>processing [5] 5/5 7/2 9/13 18/10 88/12</p> <p>processors [4] 10/5 10/6 10/9 18/13</p> <p>produce [3] 103/9 103/10 103/11</p> <p>produced [1] 18/23</p> <p>produces [1] 80/4</p> <p>production [1] 71/22</p> <p>productive [1] 27/3</p> <p>products [1] 76/7</p> <p>profession [3] 8/14 32/4 42/16</p> <p>professional [4] 12/13 21/15 21/16 159/10</p> <p>professionals [1] 43/25</p> <p>professions [3] 9/17 9/19 35/11</p> <p>program [12] 4/17 11/9 14/5 30/8 31/5 31/7 32/10 39/7 104/23 125/9 125/16 145/16</p> <p>programmed [1] 145/17</p> <p>programs [7] 34/3 35/19 35/23 36/3 36/4 39/6 39/6</p> <p>progress [1] 26/4</p> <p>progressed [1] 31/15</p> <p>prohibits [1] 64/12</p> <p>projectile [4] 41/19 49/17 96/12 96/14</p> <p>projectiles [2] 99/23 116/16</p> <p>promotion [2] 7/9 24/1</p> <p>promulgation [1] 59/4</p> <p>proper [2] 29/9 105/13</p> <p>properly [6] 42/1 71/17 99/19 99/20 102/3 112/5</p> <p>properties [3] 81/14 81/16 81/17</p> <p>property [1] 67/18</p> <p>proposal [1] 42/12</p> <p>pros [1] 162/3</p> <p>protect [1] 50/14</p> <p>protecting [2] 44/13 50/11</p> <p>protection [12] 1/6 4/4 39/12 53/8 120/7 120/11 120/21 121/12 121/19 121/25 126/13 127/7</p> <p>protections [2] 114/24 115/9</p> <p>protective [5] 127/10 128/13 128/16 128/19 131/24</p> <p>protocol [2] 36/18 118/9</p> <p>protocols [2] 36/19 37/2</p> <p>proton [4] 79/21 81/23 82/12 84/16</p> <p>protons [16] 79/25 80/1 80/19 83/4 83/11 83/25 84/2 84/6 84/7 84/12 84/13 84/20 85/1 85/20 86/1 86/6</p> <p>prove [1] 51/23</p> <p>provide [2] 103/16 123/7</p> <p>provided [3] 17/6 46/7 148/16</p> <p>provides [1] 71/4</p> <p>providing [4] 65/9 71/2 84/5 98/8</p> <p>public [7] 1/24 50/11 60/14 61/22 61/24 63/12 114/4</p> <p>publication [1] 66/16</p> <p>puck [1] 75/22</p> <p>pull [4] 28/7 75/10 91/24 145/11</p> <p>pulled [5] 91/2 91/15 96/1 145/12 151/2</p> <p>pulling [3] 89/11 148/7 148/21</p> <p>pulls [2] 76/16 76/18</p> <p>pulse [8] 79/24 83/2 83/6 84/4 84/8 84/11 84/15 97/18</p> <p>pulses [4] 80/18 81/20 83/24 89/5</p> <p>purpose [2] 57/24 59/7</p> <p>purposes [9] 48/18 58/1 60/19 64/13 70/24 70/25 71/2 71/7 124/4</p> <p>pursue [1] 52/1</p> <p>purview [3] 20/23 43/4 53/5</p>
---	---	---

<p>P</p> <p>push [1] 50/19 pushed [1] 90/11 pushing [1] 36/1 put [37] 8/10 9/8 11/13 29/12 30/18 39/8 40/8 40/9 48/11 52/13 58/15 60/17 75/5 75/6 75/22 99/4 100/9 101/1 103/22 110/7 115/20 132/20 134/19 137/14 144/16 146/23 147/7 147/8 147/19 147/20 147/22 149/22 152/15 152/17 155/21 156/18 159/17 puts [1] 34/6</p>	<p>randomly [2] 74/22 117/16 Randy [2] 2/2 5/13 range [1] 68/23 rapidly [2] 93/13 101/14 rare [1] 74/22 rarely [1] 92/16 RAs [3] 133/9 133/12 133/13 rate [8] 40/25 62/2 88/22 97/22 98/6 110/21 162/18 162/18 rates [4] 60/11 61/6 88/21 161/2 rather [2] 29/6 118/6 rating [1] 103/17 ray [18] 44/22 53/2 53/11 57/4 57/12 57/15 57/19 57/21 57/22 65/5 65/10 70/6 73/14 73/18 112/13 113/19 117/14 117/16 rays [1] 75/8 RDMS [1] 2/5 RDR [3] 1/24 164/5 164/19 re [2] 13/6 13/9 re-register [2] 13/6 13/9 reabsorbed [1] 54/2 react [1] 117/12 reacted [1] 40/11 read [6] 65/10 71/11 106/24 126/15 128/4 128/5 readily [1] 111/14 reading [1] 71/14 readopt [1] 26/2 ready [5] 4/2 22/21 66/17 78/2 78/20 real [4] 44/13 80/5 94/1 145/6 realign [1] 84/20 realigning [1] 84/20 realigns [1] 85/23 realize [1] 49/6 really [43] 10/22 11/14 12/16 15/12 19/23 21/13 22/4 22/5 22/23 23/12 23/20 34/2 35/25 36/24 51/25 58/3 58/13 63/22 66/11 71/17 75/17 90/8 96/10 100/23 109/12 111/23 113/9 114/25 116/1 117/1 122/1 137/14 138/21 140/1 145/25 147/2 150/10 151/20 152/22 153/1 153/2 158/10 162/18 realm [1] 58/22 Realtime [1] 1/24 reason [9] 26/17 104/8 114/21 137/7 152/7 157/9 157/22 158/4 160/21 reasonable [2] 74/4 74/7 reasons [7] 22/6 29/17 36/12 64/16 120/11 137/8 158/5 Rebecca [1] 2/9 rebuild [1] 36/3 receipts [4] 155/11 155/13 155/15 157/18 receive [2] 80/20 84/24 received [1] 80/4 receiving [1] 88/12 recent [1] 126/2 recently [1] 24/24 recessed [2] 55/16 78/18 recognize [3] 26/2 39/17 46/25 recognized [12] 121/23 122/17 123/18 124/3 124/6 127/21 132/7 132/8 132/9 132/16 135/8 149/12 recognizes [1] 37/4 recognizing [2] 52/5 125/13 recommend [5] 28/20 35/6 116/20 125/22 131/10 recommendation [15] 42/13 50/1 51/16 52/1 54/9 103/13 106/11 106/14 106/14 108/2 121/20 122/6 122/12 123/4 123/11 recommendations [10] 29/3 29/11 29/20 43/14 49/25 52/8 54/7 120/5 120/15 121/17 recommended [1] 68/5</p>	<p>record [8] 43/19 49/21 52/21 54/10 69/9 101/3 153/14 164/8 recorded [1] 84/23 red [1] 92/5 redo [1] 34/16 reduce [6] 9/7 9/12 83/8 87/14 103/1 103/2 reduced [2] 19/3 116/21 reelection [1] 141/24 reenergize [1] 35/23 refer [1] 62/1 reference [1] 151/4 referred [1] 137/13 refers [1] 131/6 refunds [1] 8/4 refused [1] 154/3 regarding [3] 105/6 107/23 137/10 regards [4] 101/8 103/7 109/18 109/20 Regional [1] 5/18 register [8] 12/7 13/6 13/9 15/23 17/17 125/9 147/12 149/13 registered [15] 4/10 12/5 12/12 12/15 30/25 34/12 34/15 34/19 72/5 72/7 74/2 120/3 123/24 130/22 130/23 registering [1] 13/25 registers [2] 46/2 46/3 registration [6] 34/21 53/14 53/15 56/19 72/8 149/12 registries [2] 48/8 121/8 registry [19] 25/8 25/11 35/2 44/25 46/10 46/25 47/3 47/25 48/12 51/22 52/24 56/11 122/23 125/5 125/12 126/1 126/4 132/13 132/15 regs [4] 56/9 56/21 58/3 74/12 regular [3] 10/7 73/14 85/11 regulate [2] 37/16 114/18 regulated [3] 50/13 71/20 71/20 regulation [8] 57/2 58/6 58/10 58/16 60/17 70/15 71/15 118/13 regulations [5] 37/17 52/11 56/14 58/12 58/14 regulatory [6] 39/1 49/8 56/24 57/7 74/2 114/16 reimbursed [1] 156/19 reimbursement [5] 32/20 32/24 47/15 48/6 154/13 reimbursing [1] 115/1 reinforce [1] 105/23 reject [2] 152/12 152/16 rejected [3] 152/4 152/9 152/10 rejects [1] 152/1 related [7] 29/2 82/11 83/13 83/13 86/5 97/24 115/11 relates [1] 82/24 relating [2] 120/5 120/6 relationship [1] 81/3 relative [2] 164/10 164/12 relaxation [8] 81/17 85/19 85/20 85/24 86/2 86/7 86/11 86/14 relaxations [2] 85/8 86/13 release [1] 111/24 released [4] 67/25 93/24 101/16 102/4 releasing [1] 101/12 relevant [1] 94/8 rely [1] 54/11 remember [20] 23/1 23/5 23/7 25/7 25/18 27/22 39/23 41/8 44/2 61/5 61/23 62/8 63/18 63/21 88/2 95/5 109/2 117/6 145/21 148/3 remembers [1] 110/3 remove [5] 86/21 110/12 113/18 118/10 119/5</p>
<p>Q</p> <p>QA [1] 68/24 quad [1] 104/25 quadriplegics [1] 41/18 qualifications [4] 28/22 29/5 120/17 130/20 qualified [2] 68/23 123/14 qualifying [3] 123/2 124/1 124/2 quality [3] 7/17 10/15 83/20 quantum [1] 81/14 quarter [1] 68/5 quench [15] 90/18 91/19 91/20 91/20 91/21 91/21 92/1 92/1 92/12 92/14 93/16 93/24 101/23 102/13 103/4 quenched [5] 92/11 92/12 102/21 102/22 102/23 quenching [4] 86/22 92/9 101/11 104/9 question [14] 10/25 14/25 42/11 42/14 61/4 64/5 68/11 74/17 117/12 117/16 117/17 119/13 138/11 150/2 questionnaire [1] 104/7 questions [16] 9/21 16/4 19/12 27/14 39/25 54/18 54/20 54/23 64/3 77/4 108/21 110/11 149/24 155/20 157/3 158/13 quick [4] 10/25 94/1 103/5 108/18 quick-and-dirty [1] 108/18 quicker [2] 9/10 51/1 quickly [5] 10/21 59/16 88/11 91/11 146/6 quite [5] 28/11 49/9 55/12 113/8 162/5 quote [3] 36/6 100/5 124/16</p>	<p>RA [2] 35/2 123/25 race [1] 100/8 radiant [2] 84/2 103/9 radiation [43] 1/5 1/13 2/18 2/20 2/21 4/4 5/9 5/12 21/6 29/1 38/13 38/14 39/7 39/12 39/19 47/1 47/5 53/8 57/3 59/10 59/11 60/23 73/2 79/23 80/3 80/20 80/20 97/19 108/5 110/25 114/5 120/7 120/10 120/21 121/12 121/19 121/21 121/23 121/25 124/4 126/13 126/17 127/7 radiation/MRI [1] 38/14 radio [7] 41/16 75/11 75/18 75/20 80/18 82/18 97/18 radioactive [2] 57/4 76/20 radiographer [2] 47/7 47/7 Radiography [1] 30/8 radiologic [9] 4/20 5/18 6/25 8/16 8/23 30/25 120/6 121/6 125/12 radiologist [6] 4/11 4/24 5/14 7/1 37/2 37/6 radiology [1] 120/10 rage [1] 68/21 Raiford [1] 69/17 raised [1] 110/11 ramp [1] 92/16 ran [2] 6/24 20/25 random [3] 64/23 67/6 82/5</p>	

R	<p>removed [1] 99/11</p> <p>renew [6] 12/18 12/23 12/25 15/16 15/19 53/16</p> <p>renewal [4] 13/11 13/12 17/20 35/1</p> <p>renewals [1] 19/3</p> <p>renewed [1] 13/4</p> <p>renewing [1] 15/2</p> <p>rental [5] 157/9 157/13 157/14 157/22 157/22</p> <p>rentals [2] 157/5 157/8</p> <p>rented [1] 158/7</p> <p>repeal [1] 27/20</p> <p>repeat [1] 113/19</p> <p>repeating [1] 7/23</p> <p>repeats [1] 37/7</p> <p>replacement [1] 7/16</p> <p>reply [1] 146/14</p> <p>report [1] 164/7</p> <p>reported [4] 1/23 7/22 73/16 104/19</p> <p>Reporter [4] 1/24 126/16 128/7 164/1</p> <p>reporting [2] 138/24 139/1</p> <p>reports [5] 6/24 138/7 138/8 138/9 148/10</p> <p>represent [1] 21/17</p> <p>request [2] 16/20 70/15</p> <p>requested [1] 69/22</p> <p>require [8] 57/13 61/10 68/23 104/22 125/19 127/14 128/18 131/24</p> <p>required [17] 7/4 26/18 32/19 60/16 61/10 67/23 104/18 105/9 105/14 118/25 120/3 135/1 135/2 135/3 135/4 135/11 135/22</p> <p>requirement [18] 31/11 32/1 34/10 47/10 47/22 48/11 49/6 49/10 50/20 53/16 72/19 74/11 103/23 104/20 107/7 119/1 119/16 135/17</p> <p>requirements [19] 25/1 28/22 31/18 31/19 32/12 45/10 46/13 50/3 51/19 57/14 57/22 71/25 72/11 94/11 103/20 115/12 115/17 124/16 131/12</p> <p>requires [3] 128/13 128/16 152/18</p> <p>requiring [7] 127/4 130/4 132/10 134/7 134/8 134/11 134/14</p> <p>research [7] 5/2 34/2 93/5 108/14 114/14 151/11 157/15</p> <p>reset [2] 147/7 147/9</p> <p>resident [1] 95/6</p> <p>resolved [1] 8/4</p> <p>resonance [12] 7/25 29/2 32/7 32/9 33/3 82/21 82/23 84/12 121/24 125/13 126/12 128/15</p> <p>resonant [2] 88/25 99/7</p> <p>resource [1] 7/19</p> <p>respect [1] 81/12</p> <p>respective [1] 44/17</p> <p>respond [1] 117/7</p> <p>responded [2] 64/9 146/3</p> <p>responding [1] 131/18</p> <p>response [11] 6/17 85/11 119/9 136/21 139/15 139/20 142/5 142/10 143/10 143/17 163/16</p> <p>responsibilities [1] 31/16</p> <p>responsibility [2] 10/8 43/13</p> <p>responsible [1] 57/2</p> <p>rest [1] 160/6</p> <p>restaurant [1] 77/11</p> <p>restrict [1] 105/9</p> <p>restricted [2] 105/11 107/17</p> <p>restrictions [2] 104/2 107/6</p> <p>resumed [2] 55/17 78/19</p> <p>retainment [1] 163/19</p>	<p>review [4] 7/4 9/10 42/20 79/4</p> <p>reviewed [2] 103/25 108/12</p> <p>reviewing [1] 28/6</p> <p>revised [1] 24/19</p> <p>RF [20] 53/18 53/23 79/23 80/20 81/16 81/20 83/2 83/6 83/24 84/8 84/11 84/15 84/16 87/6 87/21 87/23 89/3 89/4 98/6 103/2</p> <p>RFU [1] 110/6</p> <p>rid [1] 109/24</p> <p>ride [1] 162/13</p> <p>riding [1] 89/18</p> <p>rig [1] 91/24</p> <p>right [73] 8/22 9/19 9/21 14/9 14/18 15/6 15/6 18/4 18/5 19/14 19/19 21/9 21/10 22/5 27/12 27/14 28/19 29/16 31/25 32/22 33/11 35/9 36/8 42/3 42/17 43/1 43/23 46/20 47/13 48/9 51/4 51/7 51/13 55/15 55/20 59/1 66/1 66/16 67/6 68/22 69/5 71/21 72/1 73/6 75/3 78/10 85/21 87/22 90/11 92/19 92/19 94/13 103/18 108/24 109/3 112/7 115/23 118/2 119/3 122/10 130/14 130/16 133/24 137/1 140/18 141/3 144/20 146/1 146/22 150/15 152/15 155/18 162/9</p> <p>rise [1] 109/25</p> <p>risk [7] 71/16 71/18 71/19 71/19 106/13 108/9 119/23</p> <p>Rita [6] 1/24 126/15 127/6 128/5 164/5 164/19</p> <p>role [1] 30/6</p> <p>roles [1] 30/6</p> <p>rolled [3] 8/14 9/16 12/9</p> <p>roof [1] 111/11</p> <p>room [24] 52/17 87/15 91/5 93/12 95/9 95/22 96/3 101/15 101/17 101/19 102/4 102/18 113/6 113/12 113/13 116/13 116/24 117/25 118/10 118/23 119/6 143/7 160/25 161/1</p> <p>rooms [3] 91/6 111/5 116/11</p> <p>ropes [1] 7/15</p> <p>roster [1] 156/25</p> <p>rotating [1] 85/22</p> <p>rotation [1] 82/8</p> <p>routinely [1] 92/18</p> <p>RRA [1] 2/5</p> <p>RSO [1] 2/7</p> <p>RT [6] 2/6 2/7 2/9 2/14 31/4 32/2</p> <p>RTDMEDRTRNT [1] 147/25</p> <p>rule [18] 25/22 60/9 61/13 61/14 61/15 61/19 61/24 64/11 64/17 69/19 70/2 70/20 70/22 70/24 71/1 71/9 73/11 77/5</p> <p>rules [6] 56/1 56/1 56/4 56/13 70/12 70/23</p> <p>run [6] 65/21 66/23 67/18 69/4 118/17 142/24</p> <p>running [4] 73/21 79/6 79/7 80/9</p>	<p>123/12 124/17 124/21 124/25 126/20 126/21 126/22 126/23 126/25 127/9 127/10 128/14 128/17 128/20 128/22 128/22 128/23 128/25 129/4 132/20 134/12 134/17 134/18 134/20 134/21</p> <p>said [30] 12/25 32/15 37/23 39/10 47/4 49/4 51/1 58/12 60/4 60/9 67/5 98/2 102/22 107/16 111/4 112/21 113/7 116/5 117/14 119/1 119/14 122/1 125/23 127/6 128/10 134/7 136/8 147/12 147/17 148/18</p> <p>Salem [1] 31/13</p> <p>salons [1] 53/21</p> <p>same [30] 14/15 23/3 35/25 45/12 49/12 53/24 54/20 56/19 58/7 58/7 64/11 73/13 73/17 74/20 80/2 83/7 83/9 83/10 83/17 84/21 84/25 89/16 91/1 109/22 146/11 146/12 147/15 153/5 156/10 159/6</p> <p>sandwiched [1] 160/6</p> <p>SAR [6] 97/21 98/3 98/12 98/17 109/19 109/21</p> <p>Sarasota [1] 4/21</p> <p>SARS [1] 98/6</p> <p>sat [1] 16/16</p> <p>save [3] 66/19 136/24 162/15</p> <p>saved [1] 158/5</p> <p>saw [9] 43/6 60/11 77/17 96/15 97/6 110/8 137/9 146/4 146/6</p> <p>say [64] 6/14 18/14 21/9 21/21 21/23 22/14 22/15 22/17 24/10 33/4 44/25 48/18 48/23 49/23 51/2 51/20 54/24 56/6 56/7 56/7 56/17 58/3 58/18 61/17 61/25 84/14 91/11 101/9 105/15 110/10 114/2 121/1 121/10 123/1 124/7 126/18 129/12 129/20 129/25 130/18 131/9 131/10 131/11 132/3 132/12 132/13 132/15 132/21 132/23 133/2 134/24 135/20 136/12 136/18 139/17 140/13 142/7 142/14 143/13 143/16 148/20 152/10 152/13 154/20</p> <p>saying [23] 17/7 36/12 38/14 50/10 50/17 51/9 51/10 52/12 63/10 63/22 66/13 72/20 95/12 98/1 105/21 115/3 127/7 134/10 138/21 141/22 148/19 149/4 149/14</p> <p>says [21] 16/11 24/18 29/24 35/12 43/12 61/20 61/25 66/6 67/24 70/23 83/17 90/8 92/6 108/8 108/12 122/5 131/17 137/10 146/14 146/19 157/22</p> <p>scan [15] 40/19 40/22 40/25 47/20 57/20 62/18 62/19 63/9 65/2 66/3 67/5 68/15 68/17 69/4 152/24</p> <p>scanned [4] 36/17 40/23 62/20 64/20</p> <p>scanner [16] 37/21 37/24 67/19 70/13 79/19 82/7 86/16 87/8 87/18 91/24 96/14 97/12 99/7 104/6 107/21 113/6</p> <p>scanners [15] 38/1 40/24 55/22 57/8 59/21 60/13 63/15 67/17 68/22 74/25 76/13 77/4 98/10 98/11 103/22</p> <p>scanning [5] 65/24 66/11 67/8 67/14 116/19</p> <p>scans [9] 34/11 61/21 62/10 62/13 62/25 63/4 64/5 64/18 68/19</p> <p>scenery [1] 161/19</p> <p>schedule [2] 16/16 108/23</p> <p>scheduled [2] 19/18 19/19</p> <p>scheme [1] 49/8</p> <p>Schenkman [3] 2/2 5/13 23/2</p> <p>school [2] 31/1 31/1</p> <p>schools [1] 34/5</p> <p>science [1] 112/13</p> <p>scope [2] 35/14 119/4</p> <p>screen [9] 15/17 42/1 146/5 146/7 146/11 146/12 146/18 147/17 155/3</p> <p>screened [4] 100/17 104/5 105/11 107/18</p>
S	<p>sad [1] 7/9</p> <p>safe [7] 78/25 91/9 91/9 96/8 96/9 104/17 119/2</p> <p>safely [2] 115/20 115/20</p> <p>safest [1] 125/21</p> <p>safety [79] 36/10 36/14 37/11 37/18 38/8 38/9 38/14 38/24 39/7 39/7 39/20 40/4 42/3 46/12 46/13 51/21 52/6 55/6 63/12 66/18 72/19 78/23 78/24 79/14 86/20 89/1 89/25 94/10 95/10 95/11 98/20 99/6 100/18 100/21 101/8 102/14 103/5 103/7 103/19 103/23 104/10 104/22 105/4 105/6 105/10 106/16 106/24 107/13 109/13 109/22 115/22 119/23 123/14 123/15</p>		

S			
screening [7] 37/23 60/11 60/18 63/11 64/24 104/12 107/8	Seventy [1] 64/18	sketch [1] 27/21	
screens [1] 112/18	Seventy-five [1] 64/18	skin [1] 111/1	
sealed [1] 111/11	several [3] 14/5 30/6 63/16	skirt [1] 70/11	
seamless [2] 11/21 11/22	shall [12] 28/22 120/4 132/3 134/24 135/17 135/18 135/19 135/20 135/22 135/23 135/25 137/11	sky [1] 22/9	
seamlessly [1] 8/2	Share [1] 77/10	slammed [1] 91/16	
Sean [4] 7/13 7/20 10/4 10/13	she [18] 7/18 10/4 15/11 16/20 24/1 24/2 25/20 30/6 37/23 92/22 94/21 128/4 145/7 146/3 147/16 151/24 151/25 152/1	slap [2] 30/15 56/7	
Sean's [1] 10/1	she's [2] 30/7 149/4	slew [1] 88/21	
search [2] 67/22 68/1	Shellock [2] 40/2 100/20	slide [1] 64/8	
second [22] 6/11 6/12 22/16 26/20 28/8 28/9 42/14 46/16 85/4 96/19 106/5 131/7 131/13 131/23 134/9 136/15 136/16 139/12 142/1 143/4 143/5 162/25	sheriff's [1] 69/16	slides [1] 58/23	
secondary [3] 45/7 45/21 45/22	shield [1] 87/13	slightly [2] 88/13 88/14	
secretarial [1] 89/16	shielded [1] 91/7	slow [1] 111/7	
section [4] 10/17 28/14 39/16 156/4	shielding [2] 87/15 87/25	slowly [3] 85/23 100/7 102/7	
sector [1] 114/19	shifted [1] 96/22	small [4] 47/14 53/13 160/10 162/11	
security [15] 55/22 57/8 57/25 58/1 59/21 60/11 60/18 69/4 69/6 70/13 71/18 74/24 148/14 149/24 150/2	shim [1] 86/24	smaller [4] 80/11 83/18 97/2 115/6	
sedation [3] 105/1 105/3 118/24	shoot [1] 146/19	smarter [1] 23/8	
Seddon [4] 2/3 29/24 41/3 76/25	shorter [4] 48/10 48/11 86/9 162/1	snail [1] 18/6	
see [62] 16/24 17/1 20/13 23/22 24/13 28/8 28/9 28/19 33/14 35/5 36/2 40/21 59/16 60/25 66/7 67/1 68/4 73/1 75/11 76/3 77/16 77/16 78/6 85/3 85/21 85/21 86/12 89/6 97/7 97/8 98/3 98/3 101/22 106/8 109/14 110/4 110/11 111/20 111/22 119/17 131/17 137/17 145/10 145/11 146/11 146/11 146/12 147/11 150/13 150/24 151/9 152/2 152/6 152/9 152/11 154/14 154/15 154/17 154/17 155/5 156/2 157/9	shortly [2] 28/1 91/21	so [406]	
seeing [2] 65/22 84/19	shots [2] 146/5 155/3	Social [3] 148/14 151/3 151/5	
seem [1] 22/20	should [46] 9/12 11/11 11/12 17/4 20/3 20/5 29/17 37/14 37/16 38/8 49/24 50/11 51/5 52/9 52/23 77/21 99/10 99/11 105/15 105/19 105/22 107/18 107/20 107/21 118/5 118/13 119/14 122/4 123/16 123/21 129/25 132/22 132/23 134/24 134/24 134/25 135/1 135/2 135/3 135/10 139/25 141/5 142/2 144/2 155/6 156/21	societies [4] 16/21 17/2 44/17 122/15	
seems [9] 41/23 66/14 68/12 71/16 72/13 117/2 118/12 123/10 159/13	shouldn't [2] 11/23 52/9	society [1] 125/6	
seen [11] 17/4 21/1 22/6 53/20 66/17 73/4 103/19 107/25 111/19 112/3 116/22	show [10] 23/20 60/16 81/10 85/3 88/23 91/21 101/22 102/7 105/17 146/7	soft [2] 62/14 85/11	
sees [3] 145/7 151/24 152/1	showed [1] 96/19	solid [2] 44/13 52/2	
self [3] 35/2 35/5 92/9	showing [1] 84/18	some [83] 8/20 9/1 9/3 10/12 10/13 20/20 26/17 28/1 29/20 34/3 34/7 40/23 41/7 41/16 41/24 43/14 44/4 45/1 47/4 47/8 48/19 49/23 50/16 50/17 50/19 52/25 55/23 56/1 56/4 56/10 56/20 57/13 58/21 59/20 63/24 65/9 76/7 79/10 79/13 79/13 79/15 81/8 81/9 82/18 82/21 86/10 87/6 87/7 87/8 88/17 94/23 95/23 96/25 97/5 97/14 98/15 98/24 99/6 99/8 99/15 99/17 101/5 101/6 103/10 105/16 107/24 108/4 109/5 110/16 115/8 115/9 117/5 121/13 121/14 126/6 126/6 126/7 137/15 141/5 144/17 150/18 161/19 162/3	somebody [22] 7/11 9/25 10/12 10/20 34/12 36/16 38/22 38/22 39/17 40/20 42/5 47/2 60/6 60/6 60/6 63/16 90/16 92/24 117/16 124/21 141/24 145/22
self-assessment [1] 35/5	shown [2] 103/10 106/7	somebody's [1] 18/13	
self-evaluation [1] 35/2	shows [1] 98/15	somehow [1] 11/15	
self-quenching [1] 92/9	shut [1] 91/18	someone [5] 30/20 66/13 110/5 115/4 152/10	
seminar [1] 31/13	shuttle [5] 160/9 160/11 160/16 160/17 162/8	something [56] 8/19 9/8 9/11 12/18 16/13 16/23 18/21 18/23 19/3 19/4 20/9 21/9 21/13 22/15 36/6 36/16 39/8 39/25 40/5 40/11 42/21 48/3 54/10 56/8 56/15 57/9 72/23 77/16 94/24 95/21 97/10 99/17 99/21 104/19 112/2 112/24 113/20 114/3 117/13 117/14 117/17 121/3 124/1 126/9 141/6 147/12 148/25 151/20 151/25 152/1 152/5 152/11 152/14 158/8 159/20 160/25	
send [14] 7/6 17/14 18/10 18/12 146/13 149/5 152/5 152/12 152/17 152/19 153/24 154/25 154/25 155/4	side [21] 30/1 30/3 30/5 31/18 36/10 38/5 42/3 52/18 53/3 53/8 53/13 53/18 54/3 54/4 57/17 71/23 94/25 97/4 115/3 124/5 124/13	something's [1] 8/19	
sending [2] 18/6 144/16	Siemens [1] 88/17	sometimes [1] 108/4	
sense [5] 58/21 119/18 137/21 140/12 140/19	sign [5] 105/25 144/18 147/12 154/18 155/9	somewhat [2] 132/2 159/4	
sensitive [2] 82/1 148/25	signage [1] 105/17	somewhere [2] 77/12 152/4	
sent [6] 13/18 16/23 64/3 95/23 146/2 147/6	signal [4] 80/14 81/21 83/20 85/5	soon [3] 27/5 79/11 152/21	
sentence [2] 134/8 134/9	signature [2] 153/18 155/13	SOPs [1] 73/12	
sentinel [1] 36/15	signatures [1] 154/21	sorry [8] 7/23 54/17 61/16 79/5 106/24 126/18 131/13 146/5	
separate [4] 38/19 42/2 87/23 126/3	signed [3] 34/11 146/21 153/22	sort [3] 92/15 108/18 149/11	
September [10] 137/11 138/23 142/21 158/25 159/2 159/7 159/11 159/12 159/15 159/17	significant [1] 103/9	sorts [3] 56/13 60/22 75/9	
sequences [1] 112/14	signs [5] 68/25 105/15 105/20 105/22 107/15	sound [2] 54/9 122/16	
serve [2] 141/9 141/21	similar [4] 29/2 60/23 110/13 124/1	sounds [3] 136/10 145/24 163/12	
served [1] 20/13	simpler [1] 145/25	sources [2] 47/16 68/7	
service [1] 95/12	since [11] 17/22 30/11 30/12 30/25 71/21 74/1 78/1 90/1 133/21 139/7 146/20	space [1] 89/20	
services [2] 11/2 32/19	single [4] 20/13 21/2 82/7 112/18	speak [1] 41/20	
servicing [1] 93/15	sink [1] 111/15	special [3] 7/25 8/9 46/24	
set [10] 32/13 32/18 33/25 46/12 53/11 53/16 59/6 73/14 91/23 145/21	sit [3] 10/20 31/20 45/3	Specialists [1] 10/7	
setting [3] 77/13 77/18 104/1	site [6] 92/10 103/24 104/1 104/20 119/5 147/8	specialty [1] 27/24	
seven [1] 31/7	sites [2] 92/8 104/13	specific [14] 34/2 34/23 35/6 35/19 36/3 37/3 38/7 82/21 83/1 97/22 119/2 129/21 129/22 131/8	
Seventeen [1] 64/9	sitting [2] 23/1 96/21		
	situation [3] 91/23 96/7 134/15		
	situations [1] 117/5		
	six [7] 10/8 93/12 95/7 123/11 130/23 131/9 141/4		
	six-year-old [1] 95/7		
	sixteen [5] 31/24 33/5 34/6 45/1 130/11		
	sixteen-hour [1] 45/1		

<p>S</p> <p>specifically [3] 35/20 121/20 129/23</p> <p>spin [4] 84/12 84/13 85/25 112/14</p> <p>spinning [3] 82/5 82/8 84/13</p> <p>spins [2] 81/16 83/12</p> <p>spoke [1] 63/16</p> <p>spot [2] 9/25 30/18</p> <p>Stacy [12] 2/14 4/17 13/16 27/17 30/3 30/6 30/14 30/17 30/21 35/12 79/14 99/17</p> <p>staff [6] 2/17 21/6 38/22 105/3 105/11 109/6</p> <p>stamp [2] 153/21 153/21</p> <p>stand [1] 60/21</p> <p>standard [17] 24/16 24/23 25/14 33/1 59/18 59/19 61/9 61/16 61/18 61/20 62/16 68/4 70/1 103/13 118/9 156/10 156/17</p> <p>standardized [1] 125/9</p> <p>standards [23] 24/13 24/17 24/19 24/25 25/13 25/15 26/1 32/5 32/18 33/14 34/16 39/2 44/16 46/13 50/16 53/12 56/20 62/1 62/1 64/11 71/24 109/23 129/1</p> <p>standing [2] 50/6 50/16</p> <p>standpoint [1] 120/8</p> <p>standpoints [1] 49/15</p> <p>Starke [1] 69/12</p> <p>start [15] 4/5 6/23 35/25 50/24 61/20 63/1 84/9 84/16 84/19 98/4 98/22 107/17 122/3 122/4 123/16</p> <p>started [13] 4/2 7/12 10/16 20/16 20/22 23/3 35/24 39/23 114/17 144/15 144/16 150/8 156/5</p> <p>starting [2] 34/24 60/5</p> <p>starts [3] 32/3 43/2 145/25</p> <p>state [33] 1/25 4/4 6/5 21/21 23/14 33/2 39/13 43/3 43/4 44/11 45/16 46/5 46/9 46/14 47/3 47/5 47/10 49/10 50/6 50/13 50/15 56/23 58/12 59/10 72/1 72/3 82/9 83/8 114/9 136/3 137/20 138/16 164/2</p> <p>statement [1] 108/12</p> <p>states [5] 43/24 44/5 44/8 64/1 139/24</p> <p>static [8] 86/18 89/2 89/2 97/16 99/21 99/22 100/18 109/15</p> <p>statisticians [1] 18/25</p> <p>status [2] 24/13 104/17</p> <p>statute [9] 20/16 28/7 29/7 29/7 39/18 43/12 53/13 119/15 137/12</p> <p>statutes [6] 28/10 41/7 53/4 57/12 71/11 71/14</p> <p>Statutorily [1] 7/4</p> <p>stay [1] 20/5</p> <p>stenographic [1] 164/9</p> <p>stenographically [1] 164/6</p> <p>step [7] 15/10 119/25 141/16 155/1 155/1 155/4 155/4</p> <p>step-by-step [2] 155/1 155/4</p> <p>stick [1] 100/8</p> <p>still [22] 7/17 8/17 11/16 13/1 14/21 28/10 32/2 40/6 40/13 55/12 59/4 82/8 97/19 100/3 100/6 102/9 103/12 115/24 132/11 142/16 151/14 151/18</p> <p>stimulating [1] 110/13</p> <p>stimulators [1] 100/13</p> <p>stochastic [1] 110/20</p> <p>stop [1] 98/21</p> <p>store [1] 69/22</p> <p>Stores [1] 62/13</p> <p>story [2] 25/8 30/14</p> <p>straight [5] 31/1 73/1 111/3 118/22 152/2</p> <p>strap [1] 89/10</p> <p>strength [6] 80/22 80/24 81/18 83/14 84/3 97/25</p>	<p>take [32] 9/8 9/25 21/23 22/13 26/11 27/7 30/21 36/5 51/21 51/23 55/14 59/7 62/3 76/1 76/7 77/15 84/16 87/1 90/23 91/10 91/18 92/17 92/23 92/25 94/20 96/19 118/5 136/25 137/6 146/17 150/24 160/16</p> <p>taken [2] 69/25 131/14</p> <p>takes [3] 18/17 65/22 66/22</p> <p>taking [6] 31/11 76/13 87/18 88/9 113/5 129/18</p> <p>talk [28] 9/22 20/1 20/9 21/22 23/4 29/18 41/4 41/6 49/22 49/24 50/2 52/15 52/17 52/24 55/21 55/25 56/2 56/5 59/6 67/8 76/6 80/25 88/18 88/22 106/4 106/23 144/7 163/7</p> <p>talked [6] 25/17 46/23 59/18 79/15 118/8 157/25</p> <p>talking [18] 25/14 42/20 46/18 48/16 49/17 62/9 63/2 63/3 63/9 67/8 82/23 97/21 98/4 107/13 115/10 120/11 124/13 138/14</p> <p>talks [2] 53/14 53/15</p> <p>Tallahassee [4] 18/8 22/4 64/2 76/15</p> <p>Tampa [13] 1/14 1/15 4/18 6/3 23/23 30/8 31/8 159/5 160/7 160/24 161/14 162/21 162/22</p> <p>tank [3] 95/4 95/8 96/2</p> <p>tanks [2] 37/25 96/9</p> <p>target [1] 151/16</p> <p>tattoos [1] 101/5</p> <p>teach [2] 55/5 144/3</p> <p>teaching [2] 31/3 76/6</p> <p>team [2] 10/5 119/9</p> <p>tech [1] 31/1</p> <p>technical [3] 79/4 112/9 112/9</p> <p>technically [1] 149/9</p> <p>technologies [2] 38/3 114/11</p> <p>technologist [15] 4/20 5/18 6/2 30/25 32/21 37/4 46/24 108/4 112/16 115/25 116/3 124/20 125/18 125/19 130/23</p> <p>technologist's [2] 38/11 79/15</p> <p>technologist-therapy [1] 4/20</p> <p>technologists [20] 7/1 8/16 8/23 11/7 12/20 36/4 38/6 44/20 81/12 106/17 107/12 108/2 109/17 112/22 113/17 125/15 130/10 132/25 133/2 133/11</p> <p>technology [14] 29/2 31/15 35/12 35/13 36/22 37/19 53/23 65/21 114/13 120/6 120/10 121/6 125/1 125/12</p> <p>techs [3] 27/24 93/14 99/18</p> <p>telegraph [1] 42/4</p> <p>tell [7] 12/13 60/3 101/2 115/19 140/20 145/7 152/19</p> <p>telling [1] 117/3</p> <p>temperature [4] 98/9 98/25 101/13 109/25</p> <p>temperatures [2] 101/11 101/20</p> <p>temporary [4] 14/1 14/2 14/8 14/12</p> <p>ten [14] 19/7 19/8 19/12 22/18 23/10 34/24 34/25 35/1 55/15 60/12 62/7 62/22 90/5 141/7</p> <p>ten-hour [1] 34/25</p> <p>ten-year [1] 35/1</p> <p>tend [1] 111/16</p> <p>tends [2] 90/5 113/2</p> <p>Tennessee [1] 23/25</p> <p>term [5] 49/13 140/9 140/19 141/22 142/12</p> <p>terminology [2] 41/11 135/16</p> <p>terms [3] 56/13 57/2 60/15</p> <p>terrible [2] 50/17 163/6</p> <p>tesla [19] 80/25 81/1 81/1 81/3 81/19 82/13 82/19 83/15 83/16 88/20 90/3 93/4</p>	<p>113/15</p> <p>stretchers [3] 94/14 94/15 117/19</p> <p>strict [2] 32/14 57/13</p> <p>strip [2] 67/22 68/1</p> <p>strong [1] 113/9</p> <p>stronger [1] 40/25</p> <p>structure [1] 86/8</p> <p>structured [5] 31/19 31/21 31/23 32/3 47/10</p> <p>stuck [4] 92/24 94/25 97/4 97/10</p> <p>students [3] 11/10 11/10 36/17</p> <p>studied [1] 31/14</p> <p>studies [2] 66/7 106/7</p> <p>study [4] 28/25 29/11 43/13 120/14</p> <p>stuff [18] 12/1 22/12 54/5 56/10 64/10 65/25 69/15 75/5 75/6 76/18 78/12 78/14 93/10 97/2 99/5 117/23 120/13 157/20</p> <p>stumbled [2] 10/25 12/1</p> <p>stumped [1] 147/18</p> <p>subject [2] 45/17 120/22</p> <p>subjects [1] 51/22</p> <p>submitted [1] 145/6</p> <p>substances [1] 67/24</p> <p>substantially [1] 89/22</p> <p>successful [1] 155/6</p> <p>such [8] 21/4 29/1 29/4 29/5 29/21 29/22 38/7 120/16</p> <p>sudden [1] 90/15</p> <p>suggest [1] 42/23</p> <p>suggested [1] 131/18</p> <p>suggestion [2] 51/8 51/11</p> <p>suite [6] 92/7 92/11 96/8 107/1 107/2 109/8</p> <p>sundry [1] 21/7</p> <p>super [1] 102/5</p> <p>superconducting [4] 86/17 87/20 90/3 90/23</p> <p>supercooled [2] 80/8 86/17</p> <p>supercooling [1] 86/22</p> <p>supervised [1] 130/24</p> <p>supervision [2] 105/12 107/22</p> <p>supervisor [2] 10/4 145/21</p> <p>supervisor's [1] 145/13</p> <p>supervisors [1] 145/12</p> <p>supply [2] 55/1 95/22</p> <p>supposed [6] 50/18 52/15 59/3 140/4 149/3 153/24</p> <p>supposedly [2] 93/8 120/3</p> <p>suppression [1] 103/16</p> <p>sure [26] 7/22 13/15 39/2 39/12 41/25 42/7 45/23 48/3 49/21 57/18 59/20 61/19 61/19 62/12 65/8 69/11 73/22 94/9 105/11 106/21 109/10 112/18 115/4 116/13 123/9 144/19</p> <p>surprised [3] 49/9 61/7 152/6</p> <p>surrounding [2] 86/1 86/23</p> <p>survey [3] 37/8 44/4 117/4</p> <p>swap [1] 118/18</p> <p>swipe [1] 76/22</p> <p>switch [2] 88/11 92/9</p> <p>switching [2] 88/8 88/21</p> <p>system [20] 8/15 8/17 9/2 13/17 15/24 61/18 69/20 103/14 116/1 116/9 144/21 145/25 146/17 146/18 150/7 150/9 152/22 153/2 154/2 154/3</p> <p>systems [6] 10/19 60/14 68/16 82/25 98/21 115/19</p>
<p>T</p> <p>T1 [6] 85/7 85/9 85/15 85/19 85/24 86/13</p> <p>T2 [7] 85/7 85/10 85/13 85/19 86/1 86/7 86/14</p> <p>table [4] 77/17 96/21 97/11 100/9</p>		

T
tesla... [7] 98/2 98/4 98/21 102/15
103/15 113/8 113/14
test [2] 76/23 110/5
tested [1] 100/24
testing [1] 97/8
testings [1] 41/17
Texas [1] 44/7
than [22] 8/2 20/17 23/8 24/2 36/23 41/1
60/18 69/20 71/19 74/5 74/8 90/10 92/1
103/12 111/4 112/13 118/6 122/19 125/25
146/1 157/23 159/9
thank [18] 14/10 14/23 15/25 21/23
21/24 22/14 22/24 23/9 23/16 23/17 24/8
30/22 108/20 136/24 143/19 143/22
143/23 155/19
thanks [1] 23/10
that [600]
that's [110] 7/18 8/5 9/8 10/18 12/20
17/5 18/9 19/18 22/7 22/19 23/16 25/12
27/12 33/7 33/8 33/12 33/16 33/19 36/6
38/16 38/22 39/8 40/13 44/15 45/6 45/7
46/11 48/6 48/15 49/16 50/9 50/10 51/2
51/8 55/9 56/23 59/24 60/8 61/4 64/7
64/16 67/10 67/17 69/5 69/22 70/20 76/21
76/21 80/3 80/5 84/18 85/24 85/25 86/5
89/11 96/13 97/14 97/24 98/14 100/6
100/24 101/1 103/4 106/13 106/20 108/11
108/18 109/12 109/15 112/2 112/24
112/25 116/1 118/9 118/9 118/25 119/2
125/11 127/11 128/12 130/13 133/8
133/18 134/19 134/23 138/24 139/4
141/10 142/15 143/25 144/25 146/10
147/14 148/19 148/24 149/14 151/9
151/21 151/25 152/1 152/10 154/14
156/17 157/10 157/13 157/19 159/6 161/7
161/23 161/24
their [39] 9/4 9/6 11/10 13/25 13/25 14/7
24/4 24/16 24/18 24/20 24/22 24/24 25/1
25/2 26/9 26/21 39/2 40/7 40/25 41/10
44/9 49/14 50/2 50/3 59/12 61/2 66/20
86/11 100/18 100/25 103/13 108/2 116/15
116/21 118/9 148/7 148/13 148/21 161/1
them [74] 14/11 14/16 14/17 15/11 17/18
26/21 35/24 40/4 40/6 48/4 50/17 50/18
50/23 56/22 57/14 57/19 58/8 66/15 67/5
68/8 71/3 73/9 73/10 73/14 73/15 73/22
74/6 74/15 75/4 80/12 83/6 85/17 87/12
90/23 90/24 90/25 91/9 95/1 97/7 99/5
99/9 99/14 99/18 100/8 100/9 100/9
100/15 101/10 101/14 105/3 107/13
107/17 112/1 113/5 114/19 117/14 117/25
118/22 118/22 134/8 136/3 136/4 136/5
136/7 148/11 148/12 148/16 149/14 154/4
155/14 161/3 161/5 161/6 162/2
themselves [1] 98/10
then [87] 9/8 15/8 18/17 19/20 20/9
26/12 27/10 28/1 28/24 31/13 33/25 35/5
36/2 36/18 37/5 43/3 45/2 45/3 49/11
49/23 49/24 50/6 50/7 50/19 50/23 51/1
52/8 52/13 52/17 52/21 57/22 78/16 80/15
81/20 83/7 84/15 85/12 85/12 86/22 87/2
87/6 87/8 87/13 87/21 87/22 88/22 92/10
93/13 96/23 98/19 103/5 104/9 107/3
107/20 108/9 110/7 110/7 110/8 114/16
117/5 117/9 120/14 122/3 127/13 130/17
139/9 140/10 141/21 141/23 147/6 147/8
147/9 147/17 149/2 149/5 149/13 149/16
149/22 151/22 152/5 154/5 154/12 154/24
156/15 158/20 159/8 162/14
theoretically [1] 106/8
theory [1] 114/21

therapy [1] 4/20
there [155] 8/7 12/21 13/10 14/18 15/17
16/5 22/22 22/22 23/4 25/12 26/19 26/19
27/8 31/10 34/4 34/19 35/18 35/20 35/21
36/13 36/13 37/11 37/25 38/10 39/12
39/24 40/1 40/1 41/11 41/15 41/15 41/16
41/24 44/15 44/21 44/24 47/10 49/8 49/11
49/23 50/7 50/19 52/6 52/22 53/22 53/22
54/5 56/4 56/15 56/19 59/18 59/20 59/22
61/8 62/24 63/11 63/21 64/9 66/17 69/6
69/9 69/18 72/12 72/20 73/16 74/7 75/20
77/16 77/16 81/11 90/2 90/3 91/16 92/7
92/8 93/19 95/6 97/6 98/16 100/8 100/9
100/10 100/25 101/4 103/22 103/24
105/22 106/2 107/25 108/3 110/23 111/8
111/12 113/25 114/8 115/14 116/11 117/9
117/12 117/13 117/15 117/17 118/1
118/12 119/13 119/23 120/20 120/21
122/6 122/6 122/7 122/8 122/8 122/25
123/5 123/23 124/19 125/3 126/2 126/10
128/8 131/21 132/5 132/18 132/25 134/22
134/22 134/25 135/12 137/10 137/25
138/19 141/5 142/22 144/6 144/18 144/23
145/13 147/19 149/24 150/4 151/7 151/21
152/8 152/8 152/18 153/1 155/11 156/6
156/18 157/10 157/12 158/14 162/9
163/14
there's [77] 19/17 30/19 32/1 34/3 34/7
34/10 34/25 36/21 37/1 37/21 38/24 41/19
41/23 41/24 42/3 44/6 44/8 44/22 47/21
49/9 49/13 50/20 52/5 52/10 52/12 53/12
54/5 56/1 59/21 60/20 61/17 62/15 66/16
67/7 67/22 74/4 81/4 85/3 85/4 89/3 91/1
91/22 92/5 93/6 93/23 94/23 96/16 97/13
97/14 97/17 104/22 105/4 106/6 106/25
108/13 109/9 111/2 111/10 113/15 114/6
115/8 116/14 119/16 122/23 124/15
124/16 125/23 125/25 141/1 141/4 146/14
151/19 153/21 157/12 157/15 160/22
162/3
thereabouts [1] 60/7
thereafter [1] 28/1
therefore [1] 114/6
thermal [2] 99/6 104/11
these [55] 9/1 27/7 28/15 28/23 32/3
36/3 51/21 53/21 60/10 60/13 60/16 60/18
61/3 61/9 62/8 62/9 64/2 64/3 65/6 72/4
73/2 73/2 74/20 74/24 75/1 75/16 77/8
82/3 82/4 83/4 83/11 84/12 84/13 85/20
86/14 89/9 90/23 92/15 94/3 96/25 97/6
97/9 101/17 103/23 104/13 105/11 112/6
114/11 115/4 115/10 116/14 120/23
127/15 127/16 131/11
they [243]
they'll [5] 16/12 19/20 74/8 91/22 91/23
they're [43] 10/7 18/14 24/14 26/20
32/13 34/18 34/22 35/5 36/24 38/5 38/6
38/14 48/4 50/17 54/22 54/23 63/8 63/11
64/20 64/21 65/24 67/2 67/17 68/22 69/7
71/25 74/1 74/5 74/6 74/16 78/2 82/5
84/20 84/20 90/17 93/5 97/21 104/16
107/9 114/7 116/13 129/12 131/10
they've [4] 11/20 63/24 66/3 139/1
thing [37] 10/3 15/15 16/18 18/1 18/20
22/11 28/17 29/16 29/16 35/25 46/12 55/1
56/6 56/19 58/4 58/8 72/24 73/13 76/12
83/17 88/2 89/16 90/19 91/2 93/3 93/7
96/23 106/16 109/16 117/15 117/18 121/9
140/6 144/25 151/13 152/11 161/21
things [54] 9/3 9/5 13/7 28/23 29/22
37/21 38/16 40/9 41/9 42/4 42/23 43/6
44/14 49/17 49/19 52/10 53/9 54/1 54/21
56/13 57/13 62/9 65/13 66/23 69/5 69/7

75/10 77/18 79/16 88/18 91/1 91/15 97/1
99/9 100/14 103/6 107/13 109/23 110/9
110/19 111/17 113/6 114/24 115/4 116/14
116/15 117/10 117/22 118/15 120/18
120/19 137/2 139/4 150/18
think [106] 8/3 8/7 8/20 9/19 10/23
14/24 15/3 15/10 16/13 16/20 16/23 18/11
18/24 19/3 19/17 20/15 23/2 25/21 29/14
32/15 32/25 34/11 34/25 36/2 36/9 37/9
37/17 39/14 39/14 39/17 39/20 40/4 41/12
42/4 43/15 44/6 44/10 44/18 48/18 49/7
49/11 49/20 51/25 52/5 52/9 54/13 56/23
57/9 59/23 61/10 61/12 61/22 63/25 69/21
69/25 72/15 74/24 75/17 77/2 77/6 77/20
79/3 90/10 93/1 93/2 93/17 94/17 95/5
95/12 95/12 95/13 95/24 96/19 100/19
105/16 106/13 110/18 112/8 113/16 114/7
114/16 115/21 115/24 119/20 121/3 122/4
122/20 124/14 128/2 132/1 133/18 136/7
139/9 140/21 140/22 147/24 148/4 148/8
150/1 152/16 152/22 154/6 154/16 161/5
161/22 163/4
thinking [6] 19/15 23/7 29/12 40/14
49/14 64/7
thinks [1] 37/19
third [2] 68/6 143/6
thirty [2] 7/5 62/6
this [245]
those [51] 8/4 8/6 26/2 29/23 34/6 35/23
36/22 38/3 38/16 43/25 44/16 49/15 52/4
54/23 56/5 57/20 58/2 58/19 61/6 64/19
65/4 66/3 66/23 71/5 71/14 73/16 75/2
80/1 80/18 83/25 88/7 98/24 99/9 100/2
100/2 100/7 101/7 105/22 107/15 110/15
110/17 120/7 120/18 120/25 121/20
122/14 123/15 125/20 139/4 144/8 144/23
though [10] 22/21 33/8 39/18 61/12
71/20 93/3 97/18 100/5 116/24 151/19
thought [11] 8/3 11/4 19/23 21/18 29/17
54/25 54/25 70/23 71/10 71/11 158/16
thoughts [3] 27/15 120/22 140/21
thousand [1] 68/18
three [15] 34/8 38/18 51/18 68/20 117/3
120/18 140/9 140/11 140/19 141/22
142/12 142/13 142/17 143/21 161/16
three-hour [1] 161/16
three-year [3] 140/19 141/22 142/12
threshold [1] 61/18
through [60] 7/10 8/2 9/1 11/13 13/19
13/19 13/24 16/12 16/16 16/24 17/2 17/19
22/21 26/1 26/15 31/23 32/9 32/10 35/3
36/18 36/19 40/17 42/16 42/25 43/8 43/9
44/3 45/5 47/16 52/3 55/25 58/6 59/15
60/22 63/6 67/18 67/19 71/9 75/9 76/1
76/3 76/13 76/15 76/17 76/18 80/9 93/16
100/8 106/9 109/11 115/2 116/11 117/20
120/20 139/11 145/3 145/22 148/17
157/20 161/17
throw [3] 82/14 100/9 120/2
thumbnail [1] 27/21
thyroid [1] 63/22
tie [1] 12/14
tied [1] 56/21
ties [1] 53/8
tighter [1] 107/6
tilt [1] 84/13
tilting [1] 84/17
time [62] 12/25 14/15 15/17 15/22 16/1
18/12 18/17 19/2 20/18 20/19 21/11 23/23
26/11 26/22 27/24 28/1 31/10 33/15 35/18
36/5 42/22 42/22 44/4 58/15 59/5 62/3
63/23 64/21 66/4 76/14 80/11 86/4 88/20
89/3 89/4 92/2 97/24 99/22 117/11 128/6

T
time... [22] 137/15 145/1 152/9 152/15 153/21 153/23 153/25 154/5 154/6 155/6 156/5 156/5 158/5 158/17 160/21 161/3 161/4 161/5 161/16 162/6 162/6 162/17
timed [1] 81/20
times [11] 9/13 18/10 58/10 58/13 68/12 72/16 86/11 91/5 97/21 151/13 156/13
Tineo [3] 2/16 4/15 95/3
tip [2] 83/24 84/5
tips [1] 71/17
tissue [10] 81/17 83/12 84/23 85/2 85/11 85/11 86/8 98/9 98/18 106/9
tissues [5] 53/25 62/14 81/17 86/11 98/7
title [1] 131/18
today [16] 6/24 20/17 30/23 40/24 41/1 54/6 58/20 77/22 81/2 114/3 119/17 123/5 137/17 137/17 140/4 155/10
toe [1] 89/9
together [2] 40/8 53/24
told [5] 26/8 60/5 60/6 60/6 154/4
ton [1] 157/21
too [19] 18/11 25/23 27/18 35/16 38/10 39/9 54/17 56/7 56/7 71/25 81/10 90/20 92/14 95/6 96/3 115/9 126/13 132/22 159/11
took [10] 15/14 20/14 20/24 28/2 31/3 31/14 38/5 38/17 95/2 109/3
tooth [1] 72/16
top [3] 62/11 68/8 85/21
topics [1] 42/19
torque [1] 99/24
tortious [1] 42/24
toss [1] 30/12
totally [1] 47/24
touch [3] 37/5 92/6 120/7
toward [1] 71/17
towards [2] 84/17 91/11
town [1] 79/7
track [3] 32/10 61/11 63/1
tracked [1] 64/6
tracking [1] 61/21
Tracy [3] 30/13 30/13 30/14
traffic [1] 55/13
train [1] 50/23
trained [7] 34/9 99/18 105/10 112/5 118/4 118/5 132/12
training [15] 7/20 60/5 65/7 65/19 73/21 76/14 104/3 109/3 109/6 109/7 109/9 127/1 127/2 127/4 148/17
transcript [1] 164/8
transfer [1] 82/24
transmission [1] 124/12
transmits [1] 62/13
transmitted [1] 79/24
transmitter [1] 84/19
transmitting [1] 53/25
travel [10] 144/17 145/4 145/5 145/8 146/2 150/13 150/17 153/6 154/10 157/16
traveling [1] 151/6
tremendously [1] 21/3
tricky [2] 15/11 15/12
tried [3] 13/17 60/15 92/12
trimester [2] 106/12 108/11
trouble [1] 141/15
true [2] 161/23 164/8
Trunk [1] 99/2
try [6] 72/17 75/25 103/2 106/11 136/24 145/1
trying [18] 24/14 28/7 35/23 45/14 45/20 46/4 46/11 52/13 52/21 56/22 63/18 83/3 87/1 103/1 110/20 128/10 131/17 155/2

turn [3] 84/19 86/21 115/19
twenty [9] 22/19 60/12 62/6 62/7 62/10 62/16 64/19 68/14 68/17
twenty-five [5] 62/6 62/10 62/16 68/14 68/17
twenty-four [1] 64/19
two [30] 7/1 10/6 18/12 23/6 25/16 25/24 26/14 37/9 40/1 53/4 58/19 61/8 75/12 82/25 85/3 85/4 87/11 88/18 90/13 95/2 95/23 114/10 120/19 137/8 138/19 141/1 143/1 144/9 162/16 163/3
two-day [1] 23/6
type [17] 12/13 19/13 44/10 48/20 81/19 82/10 83/1 84/1 85/13 85/13 86/5 86/11 87/11 108/1 112/13 154/16 154/23
typed [2] 131/16 147/1
types [10] 85/3 85/4 85/7 85/8 85/9 85/16 85/16 86/11 94/3 101/7
typically [2] 62/4 80/23

U
uhn [6] 71/10 71/10 147/13 147/13 153/25 153/25
uhn-uhn [3] 71/10 147/13 153/25
ultimate [1] 112/17
ultrasound [1] 53/23
Unacceptable [1] 79/8
unapproved [1] 41/17
under [8] 14/16 105/1 105/12 107/21 121/25 133/5 137/9 138/18
undergoing [1] 103/14
undergraduate [1] 134/4
understand [10] 30/4 33/4 33/11 45/15 49/19 52/15 65/10 65/11 79/14 128/2
understanding [4] 14/25 54/18 55/3 112/14
undock [1] 118/22
uniform [1] 88/24
unify [1] 86/25
unique [1] 131/24
unit [2] 5/5 97/23
units [3] 73/2 93/17 98/7
universally [1] 100/20
university [6] 4/13 4/18 4/21 4/22 5/3 6/5
unless [6] 11/15 64/12 91/22 113/9 151/19 151/24
unlikely [1] 108/4
unlikely [1] 68/13
unquote [1] 36/7
unregulated [1] 54/3
until [15] 6/24 15/16 20/25 26/22 54/16 90/18 94/25 96/22 108/11 114/2 137/23 141/12 145/1 150/12 152/17
up [82] 11/15 17/8 18/7 18/15 22/4 22/10 22/16 28/7 28/16 28/18 29/24 31/17 33/25 35/8 38/17 42/14 42/20 46/16 54/21 56/20 59/6 60/7 60/17 64/16 73/14 77/13 77/18 82/1 82/7 86/4 90/11 90/24 90/25 91/7 91/16 91/23 92/16 94/5 94/6 94/25 97/21 99/10 100/8 100/25 102/3 102/12 102/13 102/19 104/1 105/22 107/15 110/6 111/3 111/8 111/9 111/12 111/16 113/13 113/21 119/17 120/2 126/5 131/23 137/8 137/16 141/24 145/11 145/21 146/7 146/12 146/19 147/4 147/12 148/22 149/22 152/3 154/16 158/7 159/20 160/24 162/13 163/8
update [2] 6/21 15/19
updated [1] 24/21
upload [3] 9/6 9/7 18/2
uploading [1] 18/18
upon [7] 7/24 54/9 54/11 82/10 83/3 84/1

98/25
Upscale [1] 89/24
Uranium [1] 76/11
urgent [1] 105/5
us [43] 6/21 7/7 7/10 8/25 9/3 10/17 14/5 18/12 21/8 21/11 24/21 26/25 27/3 27/23 29/8 29/10 29/25 30/4 37/15 43/2 46/25 51/2 52/25 55/10 57/1 57/10 60/3 67/8 71/5 77/14 77/18 78/2 78/4 78/23 82/1 102/14 108/23 139/1 140/17 143/1 144/1 150/8 163/3
use [29] 7/19 13/8 24/16 44/20 55/10 57/14 61/22 68/16 70/23 70/25 84/25 85/14 91/10 93/6 107/22 114/14 121/11 123/21 125/16 127/17 127/19 129/25 130/1 132/10 134/7 134/11 151/17 156/16 161/3
used [22] 12/17 40/21 42/6 53/24 57/20 57/23 60/17 69/20 71/17 74/21 76/11 81/2 81/2 81/6 81/6 82/20 83/1 105/2 105/20 110/19 116/10 148/19
user [14] 146/8 146/19 146/23 147/17 148/7 148/19 148/21 148/22 149/12 149/18 149/21 150/2 150/22 150/23
uses [2] 71/12 100/20
using [5] 8/25 80/22 82/2 116/20 135/16
usually [13] 62/5 69/7 76/7 87/13 97/9 109/13 110/5 113/4 113/7 151/16 158/7 158/9 161/4
utilization [2] 28/25 120/14
utilizing [2] 18/18 46/13

V
VA [2] 5/24 24/2
vague [2] 126/14 132/22
valuable [2] 7/18 9/2
values [1] 98/15
valve [1] 102/2
valves [1] 99/25
van [2] 101/25 102/1
Vanderbilt [1] 24/4
variance [5] 58/5 58/7 58/15 70/15 72/10
variances [3] 60/7 70/19 71/3
variant [1] 99/22
variation [1] 58/7
various [4] 21/7 22/6 29/16 100/16
vary [1] 115/23
varying [6] 80/11 89/3 89/4 100/11 100/18 109/19
vaseline [2] 76/8 76/9
vector [1] 85/5
vehicle [1] 157/11
vendor [1] 102/16
vent [1] 92/13
ventilated [1] 111/10
versus [12] 33/22 46/9 81/6 83/15 83/19 85/18 86/14 96/16 99/22 115/12 115/16 124/21
very [36] 8/6 10/21 10/23 11/4 20/24 21/19 23/9 26/24 27/3 30/17 30/17 30/19 37/3 37/10 43/10 53/13 57/13 57/23 59/16 60/23 71/5 81/11 82/25 86/7 87/12 88/11 96/6 97/14 101/10 102/5 106/19 110/13 144/14 146/6 151/5 162/19
Veterans [1] 24/4
VHF [1] 75/11
vice [6] 2/3 3/10 139/25 140/5 141/10 143/1
vice-chair [1] 141/10
Vice-Chairman [1] 2/3
vice-chairperson [1] 140/5
vicinity [1] 156/19
video [9] 89/6 89/8 93/25 94/2 96/16

<p>V</p> <p>video... [4] 96/20 101/22 101/24 102/6 videos [2] 94/23 95/2 view [2] 21/8 87/10 violate [1] 56/12 violations [1] 73/16 violently [1] 101/14 virtual [1] 67/22 visitors [1] 67/9 visually [1] 97/5 volume [2] 87/5 88/23 vote [9] 27/11 52/20 140/4 140/11 142/3 142/7 142/16 143/1 143/12 voting [2] 139/24 140/3</p>	<p>95/6 95/18 102/14 102/15 145/6 146/25 156/1 156/7 waste [1] 36/5 watch [5] 14/17 79/3 111/17 111/18 111/25 watching [1] 14/16 water [1] 82/2 watts [6] 98/7 98/14 98/18 98/19 98/19 109/21 watts/kg [6] 98/7 98/14 98/18 98/19 98/19 109/21 way [28] 10/17 24/14 28/17 29/6 29/25 41/24 42/12 47/9 48/17 53/20 57/9 63/11 70/11 70/14 71/2 73/1 86/21 116/25 127/16 130/19 132/12 134/4 134/19 138/1 147/10 148/8 154/1 161/18 ways [1] 51/18 we [290] we get [1] 54/16 we'd [1] 27/17 we'll [13] 16/2 27/6 54/15 62/12 74/13 78/16 132/1 141/10 143/7 154/6 162/20 162/21 163/7 we're [72] 4/2 6/18 7/4 7/10 7/14 8/6 8/17 8/18 8/21 10/22 11/16 24/11 26/4 31/25 35/4 35/10 35/11 37/18 42/19 46/18 48/15 48/25 49/16 50/10 51/9 51/10 52/5 55/1 55/13 55/20 55/21 56/8 56/19 56/20 56/22 57/2 58/4 60/4 65/17 70/4 70/18 77/2 77/20 78/1 78/22 80/22 81/22 81/22 82/2 109/16 110/19 110/20 115/10 121/1 127/7 131/22 132/2 135/24 136/22 137/7 138/14 141/14 141/22 143/20 146/1 153/23 155/16 157/4 157/5 157/7 158/24 160/16 we've [16] 8/3 8/4 8/20 9/11 17/16 35/22 42/25 49/21 54/13 56/4 58/4 111/19 122/20 124/3 138/25 150/14 Weapons [1] 67/23 wear [1] 73/23 webinar [5] 12/1 12/10 13/6 16/6 19/10 webinars [2] 11/1 16/14 website [4] 11/12 20/12 100/19 100/25 websites [1] 100/23 week [5] 7/13 31/12 59/13 145/4 159/6 weekly [1] 26/6 weeks [2] 26/14 34/8 weighted [4] 85/9 85/10 85/13 85/15 welcome [4] 4/3 22/25 77/1 142/13 well [41] 9/19 11/11 14/21 17/5 18/9 18/11 18/12 21/3 23/11 30/6 35/14 37/12 42/22 45/16 48/17 48/22 51/6 67/9 89/7 93/10 109/14 115/6 115/7 117/6 117/23 118/17 123/25 124/7 124/19 125/4 132/5 133/6 133/10 136/6 137/22 144/7 150/7 154/15 154/19 162/16 163/1 went [28] 6/23 8/2 8/16 12/11 13/19 15/20 17/23 18/25 20/23 25/20 28/6 31/1 31/12 31/13 31/14 38/17 40/2 40/5 41/5 44/3 72/15 76/15 94/18 94/22 116/5 145/3 147/5 148/17 were [39] 9/18 10/11 15/2 20/19 22/22 23/3 28/15 34/7 35/19 36/13 39/24 40/1 40/1 40/10 41/10 41/11 43/25 44/1 59/4 60/24 64/1 64/10 67/8 72/10 75/19 92/3 92/24 95/24 120/11 121/13 140/4 143/24 144/9 144/18 149/14 154/1 160/24 161/3 161/6 weren't [3] 13/7 71/12 154/2 Westshore [1] 1/14 what [132] 4/5 10/6 11/8 12/13 13/5 19/6 19/25 21/4 24/13 26/3 27/9 27/19 28/18 29/10 29/19 29/19 30/1 30/2 36/24</p>	<p>37/14 37/18 38/19 39/10 40/10 40/21 40/21 41/10 43/14 43/19 43/20 46/6 46/7 46/8 46/14 46/21 48/3 49/16 50/18 51/1 51/8 51/17 51/25 55/5 55/6 56/17 58/16 58/21 59/16 60/4 60/16 64/1 64/4 65/4 65/22 66/25 67/5 68/6 69/1 69/3 74/15 76/4 78/10 80/5 81/6 81/6 83/4 84/18 91/22 93/12 95/16 97/3 98/2 101/1 101/2 106/23 109/10 112/13 115/12 115/13 115/19 115/22 116/5 116/18 117/4 117/11 119/24 122/5 122/6 122/22 124/8 124/8 124/13 125/22 127/6 128/10 129/12 131/5 131/8 131/15 131/23 134/7 135/16 137/21 138/14 140/12 140/20 141/10 141/17 141/18 141/22 145/7 145/10 145/10 146/1 147/3 147/23 148/6 148/12 148/18 148/22 149/3 149/4 149/14 150/17 152/9 153/3 155/5 156/2 156/18 158/23 162/5 162/6 what's [4] 65/11 68/8 119/25 139/2 whatever [8] 26/10 33/9 91/25 114/21 114/21 149/21 152/7 162/3 wheelchairs [1] 117/22 when [74] 8/18 9/7 11/12 11/18 12/22 16/19 17/23 20/25 23/3 31/9 37/3 39/14 39/23 41/14 44/3 46/13 49/22 52/23 54/21 54/22 55/18 61/19 64/21 65/1 65/18 67/4 67/24 71/11 73/8 76/6 76/6 81/22 82/6 83/23 84/8 84/11 87/17 93/10 94/4 95/8 97/7 97/11 98/3 98/11 99/4 100/1 100/2 106/9 107/22 108/7 110/1 111/14 112/5 113/18 115/13 117/2 117/19 119/14 138/6 138/17 141/20 144/15 145/11 146/4 146/12 146/15 146/20 150/2 150/8 150/17 152/1 153/15 153/21 153/22 whenever [2] 152/12 155/14 where [51] 18/9 23/24 31/25 32/16 35/6 35/25 36/22 37/25 38/21 46/11 49/15 50/10 53/6 53/21 57/3 62/21 63/15 67/14 77/21 80/13 82/9 87/4 88/3 88/9 88/12 88/15 92/8 92/10 94/10 95/15 107/12 110/11 113/4 113/12 121/1 122/2 125/10 140/14 140/15 140/16 145/4 148/7 148/17 148/21 151/6 152/8 153/16 157/13 159/23 159/25 160/5 whereas [2] 72/8 86/8 wherever [2] 155/24 161/8 whether [8] 40/11 40/21 43/21 50/13 65/9 101/3 117/13 119/13 which [75] 7/9 18/2 19/23 24/25 25/14 26/3 29/9 32/13 36/20 40/2 40/25 44/25 46/24 50/15 52/14 53/6 53/7 53/22 57/1 57/3 57/12 61/19 61/21 63/18 68/6 68/16 70/16 74/4 79/24 80/11 80/15 82/12 82/19 83/5 84/24 86/2 86/13 86/18 86/25 87/2 87/3 87/20 90/19 92/9 97/22 98/6 99/15 100/4 101/13 102/13 103/15 104/16 109/8 121/13 121/14 123/14 125/12 126/12 127/14 127/14 128/13 128/16 128/18 129/9 131/1 131/24 140/9 145/20 146/24 148/2 151/23 153/16 156/11 161/10 161/12 whichever [3] 16/20 48/17 161/9 while [2] 29/13 95/24 white [3] 85/10 86/12 111/22 who [55] 6/7 6/20 15/1 15/1 17/10 21/7 26/8 26/8 30/9 30/20 34/12 40/1 40/2 41/25 43/25 44/9 49/5 49/8 49/11 52/9 52/9 52/16 60/6 60/6 60/8 69/21 71/14 74/15 77/22 79/4 94/18 95/25 104/5 104/21 104/23 104/25 105/4 109/6 110/5 110/6 110/16 112/17 116/3 117/9 121/7 123/15 123/17 124/21 129/8 130/1 130/5 132/12 140/13 142/23 153/20</p>
--	--	--

<p>W</p> <p>who's [6] 13/16 20/13 34/15 78/22 115/25 123/24</p> <p>whoever [1] 50/22</p> <p>whole [6] 22/8 42/2 53/17 56/14 116/12 159/4</p> <p>why [12] 27/12 41/11 44/14 48/15 54/24 54/24 74/20 104/25 123/1 137/14 152/10 152/19</p> <p>widely [1] 42/6</p> <p>widespread [1] 114/14</p> <p>wife [1] 24/1</p> <p>will [78] 7/13 7/15 7/19 8/13 9/16 10/23 12/22 13/10 13/13 18/6 18/19 21/10 24/5 24/6 27/8 30/12 31/21 34/7 34/14 34/19 36/2 50/6 50/12 50/22 55/19 72/3 73/12 73/14 83/9 84/5 84/13 84/16 85/9 85/11 85/12 91/11 93/19 93/20 93/23 96/13 97/3 98/11 98/21 99/15 101/2 101/12 101/13 101/21 104/13 111/6 111/15 111/16 115/19 116/7 142/11 144/24 146/11 146/15 146/19 148/18 148/22 150/13 150/17 150/18 151/10 151/11 151/24 152/19 154/7 154/17 154/24 154/25 155/4 156/18 158/8 160/20 163/11 163/15</p> <p>William [2] 2/13 7/12</p> <p>William.Massey [1] 7/14</p> <p>wind [1] 148/22</p> <p>window [1] 101/18</p> <p>Winston [1] 31/13</p> <p>wiping [1] 90/6</p> <p>wire [1] 80/8</p> <p>wires [5] 75/12 75/16 75/21 100/12 100/14</p> <p>within [29] 7/5 7/7 8/12 39/7 79/19 79/20 79/21 80/14 80/16 81/23 86/25 87/3 87/4 87/8 87/15 87/21 88/15 90/5 90/5 91/5 97/23 98/25 99/7 99/9 100/15 101/15 101/25 102/18 124/25</p> <p>without [7] 9/9 77/12 96/21 109/25 130/15 149/14 155/3</p> <p>women [2] 106/1 106/7</p> <p>won't [5] 34/15 56/7 56/11 140/10 145/1</p> <p>wonder [2] 72/24 73/5</p> <p>wondered [1] 11/21</p> <p>wonderful [1] 25/24</p> <p>wooden [1] 89/17</p> <p>word [4] 3/15 8/5 8/7 144/4</p> <p>worded [1] 37/4</p> <p>wording [1] 123/23</p> <p>work [16] 4/11 4/13 9/1 10/21 19/15 25/24 38/20 55/3 102/3 104/4 109/7 116/7 117/6 156/13 156/14 157/21</p> <p>worked [8] 10/15 10/16 13/21 13/22 59/23 144/19 150/9 152/21</p> <p>worker [1] 111/9</p> <p>workers [3] 26/10 107/23 107/25</p> <p>working [7] 8/17 8/19 24/3 32/22 39/24 89/7 95/22</p> <p>works [6] 7/17 24/1 28/9 79/18 115/5 130/19</p> <p>worksheet [1] 156/3</p> <p>world [7] 57/15 57/17 68/7 100/21 110/18 115/2 115/22</p> <p>worried [3] 41/12 69/1 90/22</p> <p>worry [7] 49/12 71/18 90/6 91/3 111/23 116/14 158/9</p> <p>would [82] 8/3 11/17 16/15 17/12 20/1 23/14 25/23 25/23 27/10 32/2 32/12 39/20 40/11 43/15 45/25 46/7 46/8 46/12 47/17 48/7 49/20 51/16 52/7 56/12 58/2 58/5 58/6 58/8 65/13 66/12 70/11 70/16 73/8</p>	<p>73/16 74/1 74/3 74/7 86/7 86/8 90/10 93/1 93/2 100/13 100/14 101/15 102/23 103/15 108/8 110/25 114/24 117/12 117/14 118/17 121/7 121/9 121/19 123/7 123/14 125/7 125/8 125/16 125/21 126/18 129/7 129/20 137/6 139/6 140/11 141/20 141/21 141/24 142/23 145/14 148/2 150/19 150/20 151/21 152/8 152/15 152/19 158/6 159/2</p> <p>would've [4] 12/1 47/6 47/6 47/8</p> <p>wouldn't [5] 92/14 94/20 121/18 125/18 133/7</p> <p>Wow [1] 33/11</p> <p>wrench [2] 89/10 96/16</p> <p>write [1] 128/11</p> <p>writing [2] 52/19 134/3</p> <p>written [4] 29/7 42/12 52/11 70/15</p> <p>wrong [4] 37/20 71/13 151/21 152/14</p> <p>wrote [1] 40/2</p>	<p>162/13</p> <p>you've [12] 22/9 23/12 23/13 23/13 23/18 87/18 103/18 106/9 115/1 117/25 130/11 133/21</p> <p>your [111] 9/9 15/8 18/7 18/21 19/2 21/3 21/14 21/15 29/12 31/20 32/7 32/8 32/8 33/10 34/21 38/6 38/19 48/2 48/3 53/21 58/3 58/14 60/9 67/18 69/6 74/18 75/5 75/6 75/13 76/21 77/10 79/18 80/15 81/24 87/1 87/5 87/7 88/3 88/5 88/6 88/10 88/16 91/2 92/20 93/20 97/1 99/2 99/13 99/19 100/13 100/17 101/13 102/4 103/2 103/2 107/2 107/7 107/11 107/12 107/12 109/3 109/4 114/21 117/19 118/11 137/5 139/7 144/17 144/21 145/17 145/18 145/21 146/7 146/23 146/24 148/13 148/14 148/14 148/22 149/15 149/17 149/18 150/2 150/13 150/18 150/19 150/20 151/2 151/3 151/19 153/4 154/10 154/15 154/23 154/24 155/5 155/8 155/11 155/13 155/13 156/6 156/10 156/11 156/13 156/13 157/14 157/15 157/23 157/24 158/8 163/18</p> <p>yourself [2] 13/9 15/9</p>
<p>X</p> <p>x-ray [18] 44/22 53/2 53/11 57/4 57/12 57/15 57/19 57/21 57/22 65/5 65/10 70/6 73/14 73/18 112/13 113/19 117/14 117/16</p> <p>x-rays [1] 75/8</p>	<p>Y</p> <p>yeah [58] 10/3 14/3 16/8 17/25 19/9 23/22 27/8 33/13 33/20 40/18 42/18 54/15 61/17 62/19 63/25 64/25 65/15 69/24 70/5 70/17 72/22 73/11 74/10 74/19 78/13 91/4 92/5 93/2 93/25 102/11 103/1 110/9 112/11 113/2 113/16 113/23 117/8 119/7 124/3 125/25 130/22 132/8 132/14 132/22 133/8 133/17 134/22 140/25 142/14 147/3 150/5 150/22 157/19 159/24 160/12 160/15 161/23 161/24</p> <p>year [43] 24/18 24/22 25/6 26/23 27/10 27/13 28/2 35/1 40/21 68/5 68/19 74/5 74/8 95/7 95/16 104/22 137/11 137/13 137/18 137/19 137/20 137/22 137/24 138/3 138/10 138/16 138/20 138/22 138/25 139/2 139/3 139/3 139/5 139/7 139/11 140/1 140/8 140/10 140/19 140/22 141/2 141/22 142/12</p> <p>year's [1] 62/3</p> <p>years [26] 15/2 20/12 21/2 21/18 22/2 22/19 23/10 31/2 31/7 31/15 34/24 40/7 41/5 57/11 58/2 62/23 63/17 103/18 117/3 130/7 140/9 140/11 141/7 142/13 142/17 143/21</p> <p>yellowish [1] 76/10</p> <p>Yep [3] 11/3 27/4 27/13</p> <p>yes [25] 13/1 13/14 14/13 25/20 28/10 33/18 35/15 48/21 48/24 55/8 56/25 59/14 71/1 112/7 119/11 121/5 122/25 135/3 138/12 153/20 154/10 156/23 158/1 159/13 159/14</p> <p>yet [6] 17/21 28/12 28/13 68/23 119/16 121/2</p> <p>York [4] 44/7 95/5 95/8 110/2</p>	<p>Z</p> <p>zip [1] 59/5</p> <p>zone [14] 36/20 106/25 107/1 107/3 107/3 107/5 107/5 107/7 107/8 107/11 107/16 107/16 107/18 107/20</p> <p>zones [3] 104/2 106/24 106/25</p>