

**DRAFT MINUTES
OKLAHOMA HAZARDOUS MATERIALS
EMERGENCY RESPONSE COMMISSION
DEQ 2nd Floor Training Room
December 5, 2018**

Official after OHMERC Approval
On April 10, 2019

Members Present	Members Absent	Staff Present
Robert Doke	William Young	Stephen Baldrige
Curtis Driscoll		Tom Bergman
Michael Galloway		Kristen Bliss
Clifton Hoyle		Quiana Fields
Bonnie McKelvey		Matt Wormus
Jack McCoy		

Mr. Hoyle called the meeting to order. Ms. Fields called roll and confirmed that there was a quorum.

Mr. Hoyle called for a motion to approve the August 8, 2018 Minutes. Major McCoy moved to approve the August 8, 2018 Minutes and Mr. Galloway made the second. Approval by members was with “aye”. No one opposed.

Commission Status Reports: Ms. McKelvey stated that the Hazardous Materials Emergency Preparedness (HMEP) grant has been awarded, \$520,231 was this year’s total. The Region VI LEPC workshop was a success. Mr. Steve Mason, his team and Mr. Bergman did an amazing job conducting the workshops. Ms. McKelvey mentioned OEM has a new Director, Michelann Ooten; former Deputy Director was named by Governor Fallin effective September 1. Also, there were no training hours to report but will have for the next meeting. Mr. Bergman provided a handout on the Data Management Report and gave an update on the report.

(See transcript pages 4 – 16)

Discussion Items: Mr. Hoyle called upon Dr. Farzad Yousefian and Ronny Pacheco, who gave a presentation on the OSU Haz Mat Survey.

(See transcript pages 16 – 53)

Discussion of Emergency Responses: None

Action Item: Mr. Hoyle proposed the dates for the 2019 Commission meetings. Hearing no discussion, Mr. Hoyle called for a motion to approve the proposed dates for 2019 Commission meetings: April 10, August 7 and December 4. Chief Doke moved to approve and Major McCoy made the second. Approval by members was with “aye”. No one opposed.

New Business: None

There were no public forum issues raised.

Adjournment: Chief Doke moved to adjourn and Mr. Driscoll made the second. Meeting adjourned at 2:55 p.m.

Next Meeting: April 10, 2019; Oklahoma City

Enclosures: Data Management Report

The sign-in sheet becomes an official part of these Minutes

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA HAZARDOUS MATERIALS EMERGENCY
RESPONSE COMMISSION MEETING

December 5, 2018 - 1:30 p.m.

Oklahoma Room, at the DEQ Building, 7th Floor
707 N. Robinson
Oklahoma City, Oklahoma

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

TRANSCRIBED BY: Jennifer Payne Kaelin, CSR

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1 COMMISSION MEMBERS
2 MR. CLIFTON HOYLE
3 MR. CURTIS DRISCOLL
4 MR. MICHAEL GALLOWAY
5 MS. BONNIE MCKELVEY
6 CHIEF ROBERT DOKE
7 MAJOR JACK McCOY
8 MR. WILLIAM YOUNG - absent
9
10 ALSO PRESENT:
11 MS. QUIANA FIELDS, Secretary of Commission
12 MR. TOM BERGMAN, Department of Environmental Quality
13 MR. STEVEN BALDRIDGE, Attorney at Law, DEQ
14 MS. KRISTEN BLISS, Department of Environmental Quality
15 DR. FARZAD YOUSEFIAN, Oklahoma State University
16 MR. RONNY PACHECO, Oklahoma State University
17 MR. MOSTAFA AMINI, Oklahoma State University
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1 MR. CLIFTON HOYLE: All right. Let's get
2 started here. This regular meeting of the Oklahoma
3 Hazardous Materials Emergency Response Commission is
4 called to order.
5 Can we get a roll call, please?
6 MS. QUIANA FIELDS: Chief Doke is absent.
7 Mr. Driscoll.
8 MR. CURTIS DRISCOLL: Here.
9 MS. QUIANA FIELDS: Mr. Galloway.
10 MR. MICHAEL GALLOWAY: Here.
11 MS. QUIANA FIELDS: Major McCoy.
12 MAJOR JACK McCOY: Here.
13 MS. QUIANA FIELDS: Ms. McKelvey.
14 MS. BONNIE MCKELVEY: Here.
15 MS. QUIANA FIELDS: Mr. Young is absent.
16 Mr. Hoyle.
17 MR. CLIFTON HOYLE: Here.
18 MS. QUIANA FIELDS: We have a quorum.
19 MR. CLIFTON HOYLE: Thank you very much.
20 Hopefully you've all had a chance to review the
21 minutes from our previous meeting. At this point, I'll
22 entertain a motion to approve.
23 MAJOR JACK McCOY: So moved.
24 MR. MICHAEL GALLOWAY: Second.
25 MR. CLIFTON HOYLE: A motion and second. All

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1 in favor of approval say "aye."
2 (Positive response.)
3 MR. CLIFTON HOYLE: Opposed?
4 (No response.)
5 MR. CLIFTON HOYLE: Hearing none, motion
6 passes.
7 Ms. Bonnie, do you have any updates for us from OEM?
8 MS. BONNIE MCKELVEY: I do. I have a few
9 updates. Excuse me.
10 MR. CLIFTON HOYLE: Okay.
11 MS. BONNIE MCKELVEY: Our HMEP, or Hazardous
12 Materials Emergency Preparedness grant has been awarded.
13 This is the last year of the three-year grant period of
14 performance.
15 This year's award totaled \$520,231. The Federal
16 share \$416 and 100 -- \$416,185. The State's share match
17 of that is \$104,046 -- 104,046, I'm sorry.
18 We are -- we have our soft match and we use the
19 OSU fire service training hours as our soft match for
20 that, so there's no cash match needed since we use the
21 hours attended by the students times the State's
22 volunteer rate, and it's a great overmatch, so we've
23 never had any problems with our match. So it's always
24 been a good thing.
25 We can always use -- if necessary, we can use

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1 the meeting minutes, our meetings times of our LEPCs as
2 well as their exercises, or any other activities that
3 they have, we can use all of that time for our -- but
4 it's never -- it has not been necessary so far.
5 We had our Region VI LEPC workshop. Very
6 successful as always. Steve Mason, Region VI EPA and his
7 team, to include our own Tom Bergman, did an amazing job
8 of conducting all six workshops across the state. There
9 was a total of six in Oklahoma City, Broken Arrow, Ada,
10 Alva, Lawton and Ardmore. The total attendance of all
11 the workshops was 340 and -- but the great part of it is
12 we had 59 of our 77 LEPCs represented, which is a really
13 good ratio.
14 We had a mix of LEPC members, first responders,
15 private facilities, emergency management, health
16 department, law enforcement, community leaders, really
17 good mix, and it really made for a really interesting
18 trade back and forth of information, and people meeting
19 face to face for the first time in a lot of cases. So I
20 was really happy. I hope we are able to continue those
21 next year because they -- I think they're really
22 beneficial.
23 I think -- I'm sure you-all -- most of you know
24 that our -- since our last OHMERC meeting we have a new
25 director. Albert Ashwood, our director of 33 years

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1 retired. Michelann Ooten, who was the Deputy Director,
2 is now our director. It's effective September 1st of
3 2018.

4 I don't have a report on the training numbers.
5 Sally Knott, with OSU, has retired, so we -- in fact, we
6 had a meeting yesterday, Caroline Reed is going to be
7 providing me that information so I can send her some
8 information this morning about the information I would
9 need for our quarterly report for PHMSA for our HMEP
10 grant. So they're willing to provide whatever
11 information I need, so I'll have that by the next
12 meeting.

13 I'm sure our number are probably pretty close
14 to what they normally are, usually around -- I think our
15 last meeting they were over 800. I'm sure we're around
16 over probably a thousand have been trained at this point.

17 Let's see. And that's really all I have.

18 MR. TOM BERGMAN: Relative to the EPA Region
19 VI workshops, Mr. Mason will be retiring next year.
20 There's no guarantee that he will host those LEPC
21 workshops next year.

22 MS. BONNIE MCKELVEY: Uh-huh.

23 MR. TOM BERGMAN: In visiting with him, his
24 plan is to host those one more time.

25 MS. BONNIE MCKELVEY: One more time.

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1 MR. TOM BERGMAN: But we all recall that last
2 year when he was unable to do those, the OHMERC sponsored
3 our own round of LEPC workshops --

4 MS. BONNIE MCKELVEY: Uh-huh.

5 MR. TOM BERGMAN: -- and I would like the
6 group to -- encourage the group to consider continuing on
7 with those regardless of --

8 MS. BONNIE MCKELVEY: Yes.

9 MR. TOM BERGMAN: -- Region VI involvement.

10 MS. BONNIE MCKELVEY: I agree.

11 MR. TOM BERGMAN: I don't have any allusion
12 that Region VI is going to find somebody --

13 MS. BONNIE MCKELVEY: No.

14 MR. TOM BERGMAN: -- who's going to go out
15 and do those like Steve Mason does, so...

16 MS. BONNIE MCKELVEY: No.

17 MR. TOM BERGMAN: They won't. But we had
18 really good response and good workshops, the ones we did,
19 too.

20 MS. BONNIE MCKELVEY: Yeah.

21 MR. TOM BERGMAN: I think we should continue
22 those.

23 MR. STEVEN BALDRIDGE: He always brought
24 donuts.

25 MR. TOM BERGMAN: We did not bring donuts.

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1 MR. STEVEN BALDRIDGE: Oh.

2 MR. TOM BERGMAN: But we brought Curtis and
3 Steve and me and some other folks, and we had very good
4 comments on this workshop.

5 MS. BONNIE MCKELVEY: Oh, we did, a lot. In
6 fact, a lot of the comments were that our workshops, they
7 really got a lot more out of. There was more
8 interactive --

9 MR. TOM BERGMAN: Discussion.

10 MS. BONNIE MCKELVEY: -- because Curtis and
11 Steve and Tom put together a really great exercise that
12 involved everyone. There was a lot of really good
13 comments about how there was some more -- much more
14 information that they learned from those because of more
15 interaction.

16 MR. MICHAEL GALLOWAY: Well, and plus you did
17 an exercise --

18 MS. BONNIE MCKELVEY: We did an exercise,
19 yeah.

20 MR. MICHAEL GALLOWAY: -- during the
21 workshop, which helpful a lot of folks --

22 MS. BONNIE MCKELVEY: Very helpful.

23 MR. MICHAEL GALLOWAY: -- that never had one
24 before.

25 MS. BONNIE MCKELVEY: Yeah. I -- I agree

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1 with Tom. I would love to see those continue because
2 they -- they're helpful. You know, if we can't do six,
3 maybe we could do four. You know, do four in the
4 regional areas and -- but we'll talk further on that and
5 let you know.

6 MR. CLIFTON HOYLE: All right. Any other
7 questions for Bonnie?

8 (No response.)

9 MR. CLIFTON HOYLE: All right. DEQ update.
10 Mr. Bergman, you want to go first?

11 MR. TOM BERGMAN: Sure. I don't know if we
12 passed those out. Does everybody one or -- if you don't,
13 you can get one. Data Management Report. We just closed
14 out the year on our Tier 2 reports. The numbers are
15 there. Some of the CAMEO training classes that I've
16 conducted are listed as usual.

17 For next year, we currently have five municipal fire
18 departments that have made inquiries relative to having
19 CAMEO training already. Already had five of those, so
20 I'm working to schedule all of those folks. And if
21 memory serves me correctly, it was Stillwater, Ada,
22 Tulsa -- oh, that's three of them -- Shawnee, I think,
23 and maybe Edmond, so we'll continue to work on that.

24 And item four just listed some of the LEPC
25 events and other types of things that our staff has

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1 attended or done presentations at for the last quarter.
2 And I passed out a spreadsheet that looks like
3 this. This just came in today. I just saw it about an
4 hour ago or so. You remember from the LEPC workshops,
5 that Steve Mason said, "Hey, I'm going to put together
6 this spreadsheet of EPCRA and related programs." Okay.
7 So you have one. He e-mailed this out to everybody.
8 MR. MICHAEL GALLOWAY: Yeah.
9 MR. TOM BERGMAN: But you were probably on
10 the road by the time it got there. I think they started
11 it --
12 MR. MICHAEL GALLOWAY: Well, I got his deal
13 last month.
14 MR. TOM BERGMAN: Oh, okay. Well, this --
15 this is the first one I've seen.
16 MR. MICHAEL GALLOWAY: And the -- it just --
17 it was just my county only.
18 MR. TOM BERGMAN: Oh, it's just yours.
19 Okay. Well, I went ahead and asked him and he sent
20 me the whole state, but it's a little over 4,100 sites.
21 I just bring this to your attention in case any of your
22 constituents, acquaintances, friends, whatever, get ahold
23 of this through their LEPC and want to know what it is.
24 There are several different types of programs that
25 deal with quote, "hazardous materials." And I've been

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1 doing this for several years with our database, but this
2 is new for a lot of folks, not necessarily Oklahomans.
3 But the idea is if there's a facility regulated by
4 one of these six programs, should we let the LEPC know
5 about that or other folks? The fire marshal, for
6 example, might want to know that.
7 So what we encouraged people to do is just look
8 at -- this is Lincoln County. You can see it's not a
9 really big list. Look through the list for your
10 jurisdiction. If you see something that surprises you,
11 you might want to contact us or contact those people.
12 They're regulated by somebody and they're not regulated
13 by somebody for no reason. There's got to be some reason
14 they're regulated CFATS or Facility Response Plans or by
15 Risk Management Plans or by Large Quantity Generators or
16 by Small Quantity Generators, so they're all on there.
17 If anybody wants to take a copy of this for
18 your own uses, this is the explanation of these programs
19 that Steve sent with the list. So every LEPC person got
20 the list in one of these. I got about ten of these
21 printed off here. Again, if that's something -- that
22 just explains what an EPCRA 302 facility is, what a CFATS
23 facility is, what an FRP facility is. If that's helpful
24 for you, I'll just set them on the table over there and
25 you can --

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1 MR. CLIFTON HOYLE: But Steve sent these out
2 to his list of all LEPC contacts in Oklahoma?
3 MR. TOM BERGMAN: Right.
4 MR. CLIFTON HOYLE: Okay.
5 MR. TOM BERGMAN: The LEPC contact got their
6 list for their county plus this three-page explanation.
7 I think there's three pages there. So that you could
8 help people understand if a facility is marked off as
9 being an FRP, what does that mean.
10 MS. BONNIE MCKELVEY: Uh-huh.
11 MR. TOM BERGMAN: We are going to put out an
12 e-mail, maybe today, to the -- our list of LEPC contacts
13 that says, "You may have gotten this from EPA. We know
14 what it is. If you have questions about it, please
15 contact us. We'll help explain it to you if you have
16 questions."
17 But our explanation is going to be, "Look at the
18 list. If you see -- you know, you probably know all of
19 these companies. If you don't know one or two of them,
20 that might be a clue that you should get to know them or
21 find out why they're on this particular list."
22 MS. BONNIE MCKELVEY: Can help them.
23 MR. TOM BERGMAN: Yeah. They're on there for
24 a reason.
25 MR. CLIFTON HOYLE: Sure.

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1 MR. TOM BERGMAN: Sure.
2 MS. BONNIE MCKELVEY: Uh-huh.
3 MR. TOM BERGMAN: Just don't -- it doesn't
4 require -- I had a couple of phone calls from people that
5 said, "What am I supposed to do with this?"
6 "Nothing. Look at it."
7 MR. MICHAEL GALLOWAY: Call all of them.
8 MS. BONNIE MCKELVEY: Uh-huh.
9 MR. TOM BERGMAN: "See if you see anything
10 that looks unusual.
11 MS. BONNIE MCKELVEY: Uh-huh.
12 MR. TOM BERGMAN: Why would the -- why would
13 this propane guy be on the list?"
14 The list is a little misleading, I can tell you
15 that. Because Steve's list has a thousand and some CFATS
16 facilities and I have 38. The other 900 and some had to
17 fill out a top screen but they're not an active CFATS
18 facility. We only have 38 active chemical facilities.
19 But he's got a thousand and some-odd on his list.
20 MR. MICHAEL GALLOWAY: Well, some of them are
21 duplicates on my list that had --
22 MR. TOM BERGMAN: Yeah.
23 MR. MICHAEL GALLOWAY: There was like three
24 different facilities, but it was the same place.
25 MR. TOM BERGMAN: Same facility, exactly.

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1 Because they're regulated under a different name under a
2 different program, right?
3 And a lot of those CFATS places were propane tanks.
4 They had to fill out a top screen because they had more
5 than 10,000 pounds of propane, but they didn't ever hit
6 the active list because they're in areas where they
7 didn't present enough risk to enough people, enough
8 population to be regulated. So they are some misleading.
9 And the Large Quantity Generator list is very
10 misleading. A lot of those people aren't even on the
11 list anymore. So we will -- we will help LEPCs
12 understand it if they want to contact us.
13 MR. CLIFTON HOYLE: All right. Kristen, do
14 you have any update for DEQ MOAs or anything?
15 MS. KRISTEN BLISS: Yeah. We received so far
16 44 this year out of 77, of course. For anyone who
17 doesn't remember, or wasn't here maybe last meeting, me
18 and Matt talked about how we have shifted the timeline
19 for when we accept and -- like the LEPC sign those MOAs
20 for us every year, they're now coinciding with the fiscal
21 year. So we sent those out in an e-mail last month and
22 so far we've gotten a pretty good response back. And
23 we'll continue to try to collect those as they come in.
24 And, of course, they are required to apply for the
25 LEPC reimbursement grants that we've opened up over the

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1 last two weeks. And on to that, we've received about six
2 requests from different LEPCs around the state. Hoping
3 to receive more. But so far we've gotten about \$17,000
4 worth of requests for various things, so...
5 MR. CLIFTON HOYLE: Excellent.
6 MR. MICHAEL GALLOWAY: What's your budget?
7 Can you fund every LEPC?
8 MR. CLIFTON HOYLE: No.
9 MR. STEVEN BALDRIDGE: We've got more money
10 coming in, though.
11 MR. TOM BERGMAN: Well, we do, as you know,
12 provide at least the \$1,000 MOA money. But the grant
13 money is dependent on -- equipment grants are depended on
14 enforcement.
15 MR. MICHAEL GALLOWAY: I just passed last
16 year and let others get it. I did it the year before.
17 But I didn't want to apply if -- if you were short money.
18 But if you're trying to spend your fee money, I have some
19 first responders that would like to use it.
20 MR. CLIFTON HOYLE: That is part of the goal
21 is to get the money back out into the communities where
22 it can be used.
23 MR. TOM BERGMAN: Sure. We would encourage
24 you to participate.
25 MR. MICHAEL GALLOWAY: All these volunteer

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1 firemen are liking their little iPads now, so they use
2 all these apps that we keep asking them to use,
3 collector, GeoSafe, lots others.
4 MR. TOM BERGMAN: Uh-huh.
5 MR. STEVEN BALDRIDGE: But it's not -- it's
6 fee money, it's -- it's penalty money, so yeah.
7 MR. MICHAEL GALLOWAY: Bad boy money.
8 MR. STEVEN BALDRIDGE: Yeah, bad boy money.
9 (Laughter.)
10 MR. CLIFTON HOYLE: Being used for good
11 purposes.
12 MR. STEVEN BALDRIDGE: Yeah, it's good.
13 MR. MICHAEL GALLOWAY: I appreciate you
14 giving it back to the LEPCs.
15 MR. TOM BERGMAN: Uh-huh.
16 MR. CLIFTON HOYLE: Any other questions for
17 DEQ?
18 (No response.)
19 MR. CLIFTON HOYLE: All right. Moving on.
20 We have some friends from OSU here to discuss HazMat
21 survey.
22 Tom, do you want to introduce the project?
23 MS. BONNIE MCKELVEY: Go ahead.
24 MR. TOM BERGMAN: Well, it's -- it's been
25 ongoing for a while, but they've been surveying a select

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1 group of Tier II reporting facilities and limited the
2 universe of surveyed facilities to those that are Risk
3 Management Plan facilities and extremely hazardous
4 substance facilities, which are subject to different
5 regulations than the vast bulk. So I think our universe
6 started off about 600, give or take, 6 -- 630 went --
7 DR. FARZAD YOUSEFIAN: Or 400.
8 MR. TOM BERGMAN: Yeah, and then we paired it
9 down from the original 600 down to about 400. Some of
10 those facilities simply didn't fit our -- what we were
11 trying to analyze.
12 For example, an ammonia refrigerant facility doesn't
13 receive or ship ammonia. They just have ammonia and
14 they're part of that universe. But we don't -- the goal
15 was to see if we could connect, some way, fixed facility
16 records about hazardous material shipments with
17 information that we obtained from ODOT and OHP on
18 collision -- highway collisions of placard vehicles and
19 see if we could begin to maybe make some in-roads on
20 estimating hazardous material flows that aren't
21 necessarily on major roadways that are coming through the
22 middle of Clinton, because those don't really get
23 tracked. The stuff that gets tracked is stuff going up
24 and down the U.S. highways and the interstate highways.
25 But what's on Olive Street doesn't necessarily hit

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1 anybody's --

2 MR. MICHAEL GALLOWAY: Radar.

3 MR. TOM BERGMAN: -- radar, and yet those are

4 the ones that probably present more hazard to the

5 community than guys running up and down the highway

6 because they're closer, right? I mean, they're in your

7 town.

8 MR. MICHAEL GALLOWAY: A methanol spill we

9 had in Woodward where it was burning and there was no

10 fire.

11 MR. TOM BERGMAN: Yeah.

12 MR. MICHAEL GALLOWAY: And so the fireman

13 didn't have his gear on and he was going to help the

14 other firemen that were there, because it was right in

15 front of the fire station. But until they pulled out

16 their infrared camera, they didn't see the flame. They

17 saw the heat waves in the air. But it was right in the

18 middle of Woodward --

19 MR. TOM BERGMAN: Exactly.

20 MR. MICHAEL GALLOWAY: -- that big

21 intersection.

22 MR. TOM BERGMAN: It's the kind of thing that

23 we don't get a lot of statistics on. And we hope to

24 provide something that OHP would find useful perhaps and

25 our LEPCs and our planning efforts.

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1 So we paired this list down. They did some

2 programming for an online survey instrument. We worked

3 together on framing the data that we would try to collect

4 and they're going to give us an update on that.

5 MS. BONNIE MCKELVEY: And let me say this was

6 a State project that is funded with HMEP funds. When we

7 had the LEPCs, that weren't able to apply for the money

8 any longer, when it changed, then we had to come up with

9 some projects, State projects, that would benefit the

10 LEPCs, and this is -- this is something we came up with.

11 And Tom has been a great help with providing -- kind

12 of giving it a kick-start once they -- they partnered up

13 with his CAMEO. Well, then it kind of has taken off

14 since then. And this is a one-of-a-kind, as far as we

15 know, project in the U.S. So this could be a model

16 probably for future for other states to use.

17 MR. CLIFTON HOYLE: All right. I'm excited.

18 I'll turn the light off for you and you can have the

19 floor.

20 DR. FARZAD YOUSEFIAN: If you don't mind, I

21 will just briefly introduce the project with more details

22 and then Ronny will take over and go through the sites.

23 All right. My name is Farzad Yousefian. I'm an

24 assistant professor at Oklahoma State University. And

25 this is actually joint work with Dr. Manjunath Kamath and

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1 Dr. Scott Frazier, faculty at OK State. And we actually

2 work with different graduate students and two of them are

3 here. Mostafa and Ronny are here.

4 I want to just thank Ms. McKelvey and also

5 Mr. Bergman for their great support and help throughout

6 this project and the many times we communicated with

7 e-mail or phone calls, and they were always responsive

8 and helped us through the project, and we really

9 appreciate that.

10 I just want to briefly take a few minutes to

11 start with the -- what inspired this project for us and

12 how we carried this project through different phases.

13 So, basically, the first phase of the project was

14 designing databases for a hazardous material movement.

15 And so the objective was just focus on development of

16 database that can be comprehensive.

17 And by that, I mean, we actually realized that

18 the databases, that are publicly-available, usually do

19 not capture all the information. For example, the mode

20 of transportation is not recorded in many of those

21 databases, or maybe the shipment information is not

22 actually stored. For example, the Census Bureau provides

23 the commodity for their survey micro data, but that does

24 not have the information about shipments.

25 We also realized that the Census Bureau

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1 collects data, on behalf of DOT, that is based on random

2 sampling from manufacturers. And just because of random

3 sampling, they -- they do not have comprehensive

4 information. And, also, for those samples that they

5 provide data about shipments and origin and destination,

6 they do not categorize it based on being hazardous versus

7 not hazardous.

8 So then there are also databases within --

9 provided by EPA publicly-available. However, as we

10 communicated with Mr. Bergman, we realized that these

11 databases do not contain the modes of transportation.

12 So as Ms. McKelvey mentioned, what makes this

13 project unique is in terms of viewing this important

14 information that we can actually utilize in many

15 different aspects in terms of collecting data in the

16 first place, and then addressing many questions that we

17 can actually have after -- after we gather the data.

18 So the very first stage or phase of the project

19 was development of this database and, basically,

20 development of design of a survey that Ronny is going to

21 actually shortly go through the interface of the -- this

22 software that he developed. And it's already been

23 distributed and we have collected. It's been distributed

24 to more than 400 or 450 facilities, and so -- and we are

25 done with the -- actually the implementation of that

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1 survey, and we have so far got more than 37 percent
2 response, which is -- which is good in terms of being a
3 survey. And that was, again, with the great help of
4 Mr. Bergman, that sometimes actually he contacted them
5 individually and asked for their help.
6 And in the next phase of this project, right after
7 development of this survey, was how -- now that we have
8 this valuable information, how to model this to be able
9 to get insights from that data and -- and how we can
10 actually translate the data in terms of what is important
11 to LEPCs or -- LEPCs or fire departments of the cities in
12 Oklahoma.
13 So these are -- these inspired us to work on
14 different models. For example, HazMat generation model
15 that is basically focused on statistical tools that we
16 can use to actually project the amount of HazMats
17 generated by the facilities in this state. And also
18 distribution -- HazMat distribution through the state and
19 different locations and different regions can be also
20 interesting in terms of -- to determine how HazMat is
21 distributed among different regions. So these are mainly
22 now the post phases or analysis of part -- not analysis,
23 but modeling phases of the project.
24 Now, recently -- or maybe by "recent," I mean from
25 last year, we raised the question that, in particular, if

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1 you want to address this question, "What hazardous
2 materials may be passing through a particular
3 neighborhood?" And this actually is important -- it
4 might be important -- of importance to, again, LEPC and
5 fire departments of the state.
6 Because we figured out the current methods that are
7 done to capture this information and to track HazMat flow
8 throughout the state is either by visual inspection on
9 the road, and that's limited to maybe major roads, and
10 also weight stations in different locations. And as you
11 aware fully, that this is limited by many aspects in
12 terms of the manpower and expenses. And so it's the
13 implementation of these ideas are limited to different
14 aspects.
15 So what we have worked on in the next phase was to
16 try to visualize the data that we have gathered from the
17 survey, using a software called ArcGIS. And, again, as
18 Ronny would go through that, we have in the process -- we
19 are currently in the middle of the process of generating
20 these what we call layers of information. So we can
21 think of visual layers of information.
22 And let me actually give you a couple of examples.
23 For example, if we are interested in a particular
24 hazardous material or a class of hazardous materials,
25 through the major roads and also sideroads across the

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1 state, we can just generate that later and visualize that
2 using this -- the software. And actually, we -- we call
3 that HazMat Flow Analyzer application, the application
4 that we have been working on.
5 And so another layer of information could be in
6 terms of the flow of material that we have estimated
7 throughout the -- again, major roads and sideroads. Can
8 we generate a heat map of -- in terms of the flow that
9 can be quantified based on the intensity of the -- these
10 flows, and we can visualize that again.
11 It can be categorized based on either class of
12 materials or specific material, and also -- so these --
13 these actually all are under, again, the visualization
14 part site.
15 Now, as Mr. Bergman mentioned, another aspect of the
16 project, that we have already developed a methodology
17 for, is the risk assessment part of it. And by that, I
18 mean we realize that there could be statistically many
19 correlations between the incidents that have happened in
20 the past versus the -- and also the impacts, and that
21 they just said has been publicly-available through
22 incident, they just said, Mr. Bergman have provided to
23 us. And that contains the, for example, number of
24 injured, number of dead, and the impact of the incidents.
25 We have the data. And on the other side, we have

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1 the outcome of the survey. And it would be interesting
2 to relate these two datasets to figure out in part of the
3 highways or sideroads that we have, a lot of traffic and
4 incidents in the past, can we explain that by particular
5 specific flows of -- or classes of material that have
6 been going there.
7 So that -- that's mainly the motivation behind the
8 risk assessment part of the project. So these are --
9 these are mainly the different directions that we have
10 followed.
11 And I want to just pass this to Ronny to explain the
12 survey.
13 MR. RONNY PACHECO: Hello, I'm going to work
14 through this presentation. My name is Ronny Pacheco. If
15 you have any questions you want me to stop at any
16 specific point, feel like free. We're very anxious to
17 hear what you want to tell us from your point of view.
18 Sorry, the -- it really doesn't look -- but this is
19 the map of the incidents in 2016-2017, the last
20 information that we have about HazMat incidents on
21 highways, information from the Highway Patrol.
22 And so you can see use of the first 100, there are
23 some hotspots, call attention that we want to work on
24 this. But Dr. Yousefian went through the introduction,
25 the background. And there's only some requirement from

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1 the Federal government to do this kind of research.
2 And, basically, Dr. Yousefian commented,
3 this -- this is kind of new methodology, gave us more
4 flexibility to obtain some data.
5 Basically, we -- we develop database. We
6 started with a CAMEO database and expanded a little bit
7 to include some data and design a website application to
8 get -- collect this new data and went to the -- from this
9 destination, we connect the shortest path that we find
10 between these two points to the highways in Oklahoma to
11 have a path for this.
12 MR. TOM BERGMAN: Don't mind me. This is
13 blocking some of the screen.
14 MR. RONNY PACHECO: Oh, sorry.
15 And then, again, we want to visualize that
16 through the ArcGIS to finally assess the incident risk
17 and try to designate -- to share the results of this, so
18 it could be helpful for people to take position as you
19 that are sitting here today.
20 So we have started with a CAMEO database. I --
21 I guess you are more familiar with this database. And
22 from here, we expanded to some bigger database that is
23 going to include or -- now already have it, the data from
24 the survey. So we can connect what we already know, from
25 the CAMEO database, with the new information that we are

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1 collecting from the people in the field.
2 So with this, we developed some database and
3 now we have this -- all this information together that we
4 can obtain new information. So basically, the -- we
5 collect data about shipments, about frequency, how they
6 transport things and we join with the path that we create
7 from the algorithms in this.
8 If I'm going a little bit fast, sorry, you just
9 let me know.
10 So basically, we are ready -- it's already at
11 work, this survey. So we just -- we keep the hope that
12 people still feel it, right, and we deployed the survey
13 and we give it to -- to the people in the CAMEO that was
14 selected by Mr. Bergman. And basically, in the left side
15 there is some information. We bring this information
16 from CAMEO. It is our black box because we are trying to
17 keep the privacy of the companies, but it's basically
18 information about the company that this -- the CAMEO
19 database.
20 In this site, there's the first panel that we
21 have. They choose the kind of pass or class that the
22 materials have for issuance and give also some UN number.
23 And then they gave us some information about the
24 shipments. So for each information -- for each
25 substance, for each customer or -- or supplier, they gave

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1 us information. So they tell us the mode, they use a
2 cargo truck or a box trailer or what. This is part of
3 the new information that Dr. Yousefian was talking about.
4 They tell us what kind of container they use. Use a
5 tanker, drum, box, how they mobilize usually, as well
6 units and some about the frequency.
7 As well they tell us if they receive or if they
8 send it. We added something to capture these situations
9 where they -- suppliers send not point to point, but send
10 a truck or something to supply to different points and we
11 can make the routes based on algorithms.
12 As well we get some information for the case
13 that when we don't know. For example, their shipment
14 that go outside the state or come from outside the state
15 that we don't have the information about the Zip code or
16 the -- the address, we include it. Actually, we -- we
17 got a lot of shipments outside the state and --
18 MR. CLIFTON HOYLE: So they didn't provide
19 any route data? You deducted that, I mean, just from the
20 other data points?
21 MR. RONNY PACHECO: If the -- if the data, if
22 the -- we send this to people that we know, because they
23 are in CAMEO. But if the shipment that they are
24 receiving or they are sending is somebody who is not in
25 CAMEO, they are giving us new data. They are giving us

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1 as much as they can or they want. But we -- we ask them
2 at least the Zip code --
3 MR. CLIFTON HOYLE: Uh-huh.
4 MR. RONNY PACHECO: -- and the amount for
5 each substance, so yes.
6 MR. TOM BERGMAN: You know, if they're
7 receiving the shipment, what they're capturing here is
8 the vendor from which they're purchasing it is not a part
9 of our CAMEO system.
10 MR. CLIFTON HOYLE: Uh-huh, right.
11 MR. TOM BERGMAN: But, obviously, if I have a
12 facility in Enid, and I'm receiving and purchasing
13 hazardous materials, that are being shipped from
14 Kansas City, now we have additional data that that --
15 that that shipment of materials had to come from
16 somewhere else and they're capturing.
17 Kind of the impetus for that for me was we had
18 a facility in Catoosa, Oklahoma that was receiving three
19 to four shipments of 10,000 -- or actually, 30,000 pounds
20 of hydrogen fluoride, gaseous hydrogen fluoride anhydrous
21 yearly. And, of course, nobody had a clue, and that
22 stuff has to come right down through the -- I mean,
23 there's only one way to get there.
24 MR. STEVEN BALDRIDGE: The port.
25 MR. TOM BERGMAN: You've got to come through

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1 the middle of Catoosa. That's the only way. So at least
2 four times a year, there's a tanker truck of anhydrous
3 hydrogen fluoride going through the middle of Catoosa
4 that it's not on the highway. I mean, it got there. And
5 we discovered it came from St. Louis, so tracking that is
6 very difficult. That's not going to show up on anybody's
7 data because there's one customer. He's at the Port of
8 Catoosa and he's getting it from St. Louis, and statewide
9 data isn't going to cover that, let alone that it comes
10 down Main Street in Catoosa four times a year. Right?
11 There's enough stuff there to kill off the whole town.
12 MR. RONNY PACHECO: So up to-date, we send
13 this to 425 facilities, and we received information from
14 158. So we -- as Dr. Yousefian commented earlier, we are
15 around 37 percent information. But this is important.
16 We received information about 755 types of
17 shipments/groups that gave us 23,000 actual shipments,
18 right. Because some of these, 755 could be weekly or
19 daily.
20 MR. TOM BERGMAN: Uh-huh.
21 MR. RONNY PACHECO: So per year, we have
22 information about 23,000 shipments. It's a lot of
23 shipments.
24 MR. TOM BERGMAN: And that's only 37 percent
25 of the universe, right?

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1 MR. RONNY PACHECO: Exactly.
2 MR. STEVEN BALDRIDGE: Well, I guess you
3 could probably do a statistical model to --
4 MR. TOM BERGMAN: Yeah, I --
5 MR. STEVEN BALDRIDGE: I don't know.
6 MR. TOM BERGMAN: Probably could.
7 MR. STEVEN BALDRIDGE: To extrapolate that
8 out.
9 MR. TOM BERGMAN: I suspect a lot of the ones
10 that didn't respond probably don't contribute that much
11 to the total.
12 MR. RONNY PACHECO: And even when we are
13 using 37 percent, we are talking about --
14 MR. TOM BERGMAN: 23, yeah.
15 MR. RONNY PACHECO: -- 471,000 tons of
16 hazardous materials through Oklahoma. It's a lot, so...
17 MR. TOM BERGMAN: You know, and that has
18 nothing to do with what transverses the state, right,
19 Major?
20 MAJOR JACK MCCOY: No.
21 MR. TOM BERGMAN: This is just what is
22 generated in state.
23 MR. RONNY PACHECO: So with this raw data, we
24 tried to generate some flows. So basically we did U.S.
25 network. We -- based on the shipments points or this

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1 procedure that we have, we connect points, right, and use
2 the highways to -- to show where it go.
3 And so we've originated this nation. We have the
4 highway and we make routes based on shortest path. We
5 are assuming that they are using the -- the shortest
6 distance between the points, using the highways or the
7 main roads. And then when we have the roads reassigned,
8 the shipment that we -- the data we -- that we collect
9 about the shipments, how much, how frequent, and we add
10 it to these roads. So now we have information about what
11 is going on through each segment of highway, and then we
12 visualize it using ArcGIS.
13 So now we have a lot of data and we are starting to
14 increase by day a little bit, see if it make sense. And
15 trying to collect information that could be valuable and
16 that we can transport to the older application that we
17 want to create at least to help people who have to make
18 decisions with this.
19 So basically, we have things like this. Sorry, that
20 is not -- maybe your printout is -- it looks better.
21 Basically, those are routes that -- routes that we've
22 found that transport toxic gas. As you can see, it's not
23 only limited to Oklahoma but have applications far and
24 away. But each segment we can say exactly how much of
25 the shipments we have identified so far.

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1 And this is toxic gas, this is flammable gas.
2 Doesn't look that bad, but even though -- and we could
3 have things like this. Sorry, that doesn't look very
4 good.
5 In the -- in the picture, you can see this is near a
6 place Cow -- Cowe -- I don't remember the place. Sorry.
7 MR. TOM BERGMAN: Coweta?
8 MR. RONNY PACHECO: No. It's a small --
9 Camulgee.
10 MAJOR JACK MCCOY: Okmulgee?
11 MR. RONNY PACHECO: Muskogee.
12 MR. TOM BERGMAN: Muskogee.
13 MR. RONNY PACHECO: So we have U-62 and we
14 have the state highway 165, so just randomly I select two
15 segments of highway to see what happened with these
16 segments based on the information that we already know
17 because these two segments are really close to the town.
18 And we find that the US-62, the segment of highway had
19 some amounts of chlorine bi-weekly, monthly, bi-monthly.
20 But the 165 had some tons of ammonia per year. Sulfur
21 dioxide bi-monthly, one ton, and chlorine on ton
22 bi-monthly going through. So this is just some examples
23 of the data that we collect and we already have. We need
24 to start trying to make sense with the data that we have
25 and make useful.

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1 Sorry, I'm going the other way. I don't know what
2 happened.

3 MR. TOM BERGMAN: So one thing on the slide
4 right there, the previous one, with the flammable gas,
5 I'm going to point out we did not survey for propane at
6 all. It's not an extremely hazardous substance, it's not
7 a Risk Management Plan facility. So I think that's
8 probably a misleading set there. There's a lot of
9 flammable gas on the roads --

10 MAJOR JACK MCCOY: Yeah.

11 MR. TOM BERGMAN: -- but we didn't survey for
12 that. Most of the stuff we're looking at are toxics.

13 MR. RONNY PACHECO: Yeah.

14 MR. TOM BERGMAN: Yeah. So --

15 MR. RONNY PACHECO: And as Dr. Yousefian
16 explained earlier, we are trying to get a web application
17 to help us to make this information accessible to more
18 people and that they make sense probably with a broader
19 knowledge of the situation in the field, you can make
20 more sense of the data. And to make a tool to assess the
21 risk a better way and used to share things that we could
22 be interested in.

23 In this -- in this map, you can see that there's a
24 segment of Highway 40, it's pretty close to
25 Oklahoma State, that we found in the incidents that we

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1 show -- that I show at the very beginning. Do you
2 remember, the incidents?

3 In this segment, we found that there are five
4 incidents in this segment of highway. So out of
5 curiosity we check out what is -- what we have that is
6 going through this segment.

7 MR. TOM BERGMAN: Uh-huh.

8 MR. RONNY PACHECO: So we have 22 tons of
9 ammonia. There's propane. We have --

10 MR. TOM BERGMAN: There will be just a few.

11 MR. RONNY PACHECO: Yeah.

12 MR. TOM BERGMAN: But we didn't survey all
13 these propane dealers that are up and down the road here
14 every day, so...

15 MR. RONNY PACHECO: Probably they give us
16 some information because we captured sulfur dioxide some
17 amounts and some amounts of chlorine that's going through
18 this specific segment, so we -- we will start trying to
19 cross this information about incidents and what kind of
20 materials we have on the highway to try to make a real
21 impact.

22 So this is the application that we are trying to
23 develop to make it simple, and thank you very much. We
24 would love to hear if you have some feedback.

25 MR. MICHAEL GALLOWAY: Will you be able to

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1 add that to your interactive map, on DEQ's interactive
2 map as a layer?

3 MR. TOM BERGMAN: Well, I think a lot of
4 things are possible on it. I'm not quite sure what the
5 application would give you, Mike.

6 MR. MICHAEL GALLOWAY: Just like where the
7 anhydrous -- like when I was with Schlumberger --

8 MR. TOM BERGMAN: Well, we --

9 MR. MICHAEL GALLOWAY: -- we had a policy
10 that we wouldn't drive our trucks through the ten most
11 frequent accidents in that town and we would look it up
12 and --

13 MR. TOM BERGMAN: Yes.

14 MR. MICHAEL GALLOWAY: -- ask where the most
15 accidents were and we purposely ran our HazMat through a
16 different route. But that was a company decision.

17 MR. TOM BERGMAN: Yeah. I -- I think
18 certainly we'll make all the data available to you guys.
19 I just don't know if putting it on a DEQ map is the best
20 way to get it to you, but...

21 MR. CLIFTON HOYLE: That was kind of my
22 question. What's the long-term mechanism for delivering
23 whatever information we get out of this to LEPCs,
24 like --

25 MR. RONNY PACHECO: We are working to make

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1 this application is a -- we are discussing about what
2 kind of layer of information we want to have there.

3 DR. FARZAD YOUSEFIAN: So what actually -- to
4 add to that is one of the tasks that -- tasks that we
5 have in our current phase this year is to contact LEPCs
6 and ask for their feedback about -- and present the idea
7 of this interactive software and actually focus on the
8 layers of information that are more meaningful to them
9 and work on them. So that -- communication is actually
10 part of the -- this phase.

11 MR. CLIFTON HOYLE: It will all be web-based,
12 right?

13 DR. FARZAD YOUSEFIAN: Right, yeah.

14 MR. TOM BERGMAN: So that might be something
15 Bonnie would want to keep in mind for the August EM
16 conference.

17 MS. BONNIE MCKELVEY: Uh-huh.

18 MR. TOM BERGMAN: And maybe they'll have some
19 more things that they can generate --

20 MS. BONNIE MCKELVEY: Right.

21 MR. TOM BERGMAN: -- and do a -- do a
22 presentation. They'd reach a lot of people that way.

23 MS. BONNIE MCKELVEY: Yeah, I think so.

24 MR. TOM BERGMAN: Are you guys familiar with
25 that, the statewide Emergency Management Conference in

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1 August of every year.
2 DR. FARZAD YOUSEFIAN: Sure.
3 MR. TOM BERGMAN: Four or 500 folks.
4 MS. BONNIE MCKELVEY: Be held in Norman.
5 DR. FARZAD YOUSEFIAN: Yeah, that would be
6 great.
7 MS. BONNIE MCKELVEY: Okay.
8 MR. TOM BERGMAN: So maybe we can put them on
9 the schedule for that, and then you can get a lot of
10 feedback.
11 MS. BONNIE MCKELVEY: Yeah.
12 MR. TOM BERGMAN: Maybe even set up a booth
13 for a day.
14 MS. BONNIE MCKELVEY: Yeah. Most of the
15 emergency managers are required to attend that as part of
16 their other -- another grant that they receive. So
17 almost every county will be represented. And most of
18 those -- well, all of the emergency managers are involved
19 with the LEPC, if not the chair, so you would reach a
20 good audience there.
21 MR. TOM BERGMAN: We probably already have
22 this data. But I'm interested in some analysis of like
23 what's -- what's the major type -- types of container and
24 amounts for these various materials. I mean, I think one
25 ton cylinder of chlorine is going to be the standard, but

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1 I don't know. Maybe it's 150s. I think that the
2 standard for anhydrous ammonia is going to be
3 30,000-gallon tanker, but I don't really know. But I'm
4 sure we collected -- you guys collected some data along
5 those lines that might bear some fruit.
6 And also, as far as dissemination, some of that data
7 came from ODOT, not directly OHP.
8 One of the things they do, and I'm sure you're
9 aware of this. But when you get an accident report and
10 it has a placard of vehicle, they write down the
11 hazardous class.
12 MAJOR JACK McCOY: Yes.
13 MR. TOM BERGMAN: Right?
14 MAJOR JACK McCOY: Uh-huh.
15 MR. TOM BERGMAN: And that's the data that we
16 get and that we're using for part of this.
17 MAJOR JACK McCOY: All right.
18 MR. TOM BERGMAN: Would there be any interest
19 on OHP's part in actually recording the four digit
20 placard number rather than just the hazardous class?
21 MAJOR JACK McCOY: Oh, I think so, yeah.
22 Absolutely.
23 MR. TOM BERGMAN: Then we'd have a lot better
24 data.
25 MAJOR JACK McCOY: Uh-huh.

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1 MR. TOM BERGMAN: Because right now we're
2 just getting, "It's a Class 3."
3 MAJOR JACK McCOY: Uh-huh.
4 MR. TOM BERGMAN: Well, Class 3 could be a
5 lot of different names or it's a Class 8. It's a
6 corrosive, but we don't know if it's nitric or sulfuric
7 or citric or what it is.
8 MAJOR JACK McCOY: Right.
9 MR. TOM BERGMAN: But that would be -- one
10 thing that we noticed, in the data that we get, is it
11 would be interesting if we had those four digit placard
12 numbers.
13 MAJOR JACK McCOY: Sure, sure.
14 MR. TOM BERGMAN: I don't know if that's
15 something you could discuss with the --
16 MR. MICHAEL GALLOWAY: Well, he's agreeable.
17 But when they created that form, they asked --
18 MAJOR JACK McCOY: Right.
19 MR. MICHAEL GALLOWAY: -- to put the four
20 digit numbers in there and they said that OHP wouldn't be
21 compliant and wouldn't have the time to do it. But now
22 that it's digital and they can type everything in --
23 MAJOR JACK McCOY: Just sitting there looking
24 at the placard --
25 MR. MICHAEL GALLOWAY: Yeah.

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1 MAJOR JACK McCOY: -- it's four more boxes
2 they've got to fill in. It isn't that big a deal.
3 MR. TOM BERGMAN: Well, you know, it's
4 whatever you guys can come up with. But I -- I think
5 that would be a useful piece of information for us --
6 MAJOR JACK McCOY: Uh-huh.
7 MR. TOM BERGMAN: -- if OHP and DOT decided
8 they wanted to add that information to the data they're
9 collecting. And then you get real specific. It's not
10 only a hazardous class, but, "This is exactly what the
11 material is." Those are almost like a -- you know,
12 that's a -- that's a pretty good identifier.
13 MAJOR JACK McCOY: Right.
14 MR. TOM BERGMAN: And I don't know if ODOT
15 would want to look at this data or you guys might have
16 someone --
17 MAJOR JACK McCOY: Yeah.
18 MR. TOM BERGMAN: -- look at that and see.
19 MAJOR JACK McCOY: Our Troop S, that enforces
20 this stuff, that's -- they'd definitely --
21 MR. TOM BERGMAN: I would think they might
22 want to get together with this team some time and say,
23 "Well, here's a direction that you could go with this
24 survey or analysis." That would be even more beneficial.
25 So I don't know who the -- who it is you need to talk to

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1 about that, but --

2 MAJOR JACK MCCOY: I'll talk to Lieutenant --

3 MR. TOM BERGMAN: We can put them in touch

4 with them and see if there's something they want to do.

5 But you guys are collecting the information, but I don't

6 think you're doing any analysis with it.

7 MAJOR JACK MCCOY: No, probably not.

8 DR. FARZAD YOUSEFIAN: One comment I wanted

9 to make is one of the -- actually, things that we

10 observed and we took into account the incident database,

11 so we only -- the information is not comprehensive again

12 there. For example, if some incident has happened that

13 is related to hazardous material, we only know the class.

14 We don't know what materials were involved, and we only

15 know the impact in terms of number of injuries and death.

16 So actually, we -- it would be interesting to us to

17 actually find a more comprehensive incident database so

18 that we can actually utilize our data better. Because if

19 we only have the --

20 MR. TOM BERGMAN: Right.

21 DR. FARZAD YOUSEFIAN: -- incidents in terms

22 of the classes, we cannot use our data to -- to connect

23 to the --

24 MR. TOM BERGMAN: Well, I think that's sort

25 of what we were just discussing. I mean, it doesn't

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1 exist. As far as I know, there is no database that

2 records the actual placard number so you know what the

3 material is, and there isn't one that records whether or

4 not there was an actual release of any product.

5 MR. MICHAEL GALLOWAY: Yeah, that's right.

6 MR. TOM BERGMAN: Right? I mean, the NRC is

7 supposed to get it, but they don't. It's just the way it

8 is. That stuff doesn't get phoned in unless it's big

9 enough to cause a big problem.

10 But we're interested in 30-gallon, 100-gallon

11 incidents because that's a precursor for something worse

12 could happen. You know, that's -- I'm glad it was only

13 30 gallons.

14 MS. BONNIE MCKELVEY: Uh-huh, right.

15 MR. TOM BERGMAN: But, you know, the next

16 time it might be 3,000 gallons, right? It could happen.

17 so --

18 MS. BONNIE MCKELVEY: Yeah.

19 MR. MICHAEL GALLOWAY: I'd be interested in

20 the inhalation hazard HazMat that --

21 MR. TOM BERGMAN: Well, we have that data

22 because that's a Class 3.1 -- is that the one? No, it

23 would be 2, toxic gases.

24 MR. MICHAEL GALLOWAY: Chlorine, H2S.

25 MR. TOM BERGMAN: Well, we got a lot of that.

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1 Surprisingly there aren't that many Class 2s in the

2 database, so -- of the incidents, of the collisions.

3 Most of it is flammables, which is not really a surprise,

4 I suppose. You know, most of the highway-related HazMat

5 events are flammables.

6 MR. MICHAEL GALLOWAY: That's the number one.

7 MR. TOM BERGMAN: Well, that's what's mostly

8 on the highway.

9 MR. MICHAEL GALLOWAY: Yes.

10 MR. TOM BERGMAN: Right.

11 MR. MICHAEL GALLOWAY: That's what makes

12 everything move, so gasoline and diesel.

13 MR. TOM BERGMAN: But wasn't it interesting

14 we had 23,000 shipments of -- a lot it is not flammables,

15 because we weren't particularly surveying for flammables.

16 Mostly what we're surveying for, for toxics. A few

17 flammables snuck in there, but mostly it's toxic and

18 toxic gases and corrosives.

19 MR. STEVEN BALDRIDGE: What type of data is

20 available for like railroad shipments? Is that a harder

21 nut to crack?

22 MR. TOM BERGMAN: No. That's very, very

23 easy.

24 MR. STEVEN BALDRIDGE: Okay.

25 MR. TOM BERGMAN: There's only really --

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1 MR. MICHAEL GALLOWAY: Two --

2 MR. TOM BERGMAN: -- two major --

3 MR. MICHAEL GALLOWAY: -- in Oklahoma.

4 MR. TOM BERGMAN: Oklahoma has two Class I

5 railroads, UP and BNSF. And then we have about another

6 10 or 12 Class 3 railroads.

7 MR. MICHAEL GALLOWAY: Regionals.

8 MR. TOM BERGMAN: But the Class 3s, as a

9 general rule, don't haul HazMat.

10 MR. MICHAEL GALLOWAY: It's very low.

11 MR. TOM BERGMAN: Some of them do. But you

12 can contact a railroad and they'll give you their exact

13 car count shipment for every commodity for the last year.

14 MR. MICHAEL GALLOWAY: And it's digitized. I

15 mean, it's --

16 MR. TOM BERGMAN: Yeah. I mean, so that's

17 pretty easy information.

18 MR. STEVEN BALDRIDGE: And do you have that

19 incorporated into your system yet?

20 MR. TOM BERGMAN: Yeah, it's already in

21 CAMEO.

22 MR. STEVEN BALDRIDGE: Okay. Great.

23 MR. TOM BERGMAN: There are a couple of

24 outliers that are kind of interesting. One of them is

25 the San Springs Railroad in Tulsa, which the last time I

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1 talked to them -- have you ever heard of those guys?
2 MAJOR JACK McCOY: Huh-uh.
3 MR. TOM BERGMAN: Okay. There's like four
4 miles of track, the entire railroad, four miles. But
5 they carry couple three of the most dangerous materials
6 in the state in like not just one car, like 80 of them a
7 year. Ethylene --
8 MR. STEVEN BALDRIDGE: Where is it going to?
9 MR. TOM BERGMAN: San Springs.
10 MR. STEVEN BALDRIDGE: Yeah, but --
11 MR. TOM BERGMAN: Goes down to Baker Hughes
12 and --
13 MR. STEVEN BALDRIDGE: Okay.
14 CHIEF ROBERT DOKE: Glass plant. Isn't it a
15 glass plant where it terminates --
16 MR. TOM BERGMAN: There's a gas plant down
17 there.
18 CHIEF ROBERT DOKE: Or glass as in --
19 MR. TOM BERGMAN: And there's a Baker Hughes,
20 and they transport propylene oxide and ethylene oxide in
21 railcars, so we're talking 30,000 gallons of ethylene
22 oxide, which is -- if you don't know what that is, it's
23 primarily used as a surgical instrument sterilant. They
24 use it to sterilize surgical instruments. So if it will
25 sterilize a stainless steel instrument, I bet it will

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1 sterilize you.
2 (Laughter.)
3 (Multiple speakers.)
4 MR. TOM BERGMAN: Yeah, it's extremely
5 dangerous. Yeah. So there's a few outliers. There's a
6 Catoosa Railway that carries like, I don't know, 20 car
7 loads of chloride per year.
8 But we really had -- that data is not hard to get.
9 MR. STEVEN BALDRIDGE: Okay.
10 MR. TOM BERGMAN: And it's kind of the
11 standard that -- everybody does these quantity flow
12 studies and they look at ODOT data or USDOT data and they
13 look at PHMSA data and they look -- you know, they try to
14 categorize how stuff is in the rail, how stuff -- and we
15 were trying to something a little different.
16 MR. STEVEN BALDRIDGE: And what about -- just
17 because I'm ignorant, what about like places like the
18 Port of Catoosa?
19 MR. TOM BERGMAN: Again, all that is public
20 record stuff. They have to tell you.
21 MAJOR JACK McCOY: That would be the
22 Catoosa Rail.
23 MR. STEVEN BALDRIDGE: Okay.
24 MR. TOM BERGMAN: Right. But the port, too,
25 they have to tell you exactly how much of --

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1 MR. MICHAEL GALLOWAY: The barge is --
2 MR. TOM BERGMAN: -- everything that comes in
3 and out. And the numbers are staggering. But the number
4 of -- do you know how many derailments we've had in this
5 state in the last ten years? Like six. I mean, the
6 numbers are miniscule.
7 Do you know how many incidents they've had at the
8 Port of Catoosa in the last ten years?
9 MAJOR JACK McCOY: Not very many.
10 MR. TOM BERGMAN: One, that I know of.
11 MR. MICHAEL GALLOWAY: It's when the barge
12 hit the bridge.
13 MR. TOM BERGMAN: When the barge hit the
14 bridge, yeah.
15 MS. BONNIE MCKELVEY: Uh-huh.
16 MAJOR JACK McCOY: Yeah, that was --
17 (Multiple speakers.)
18 MR. MICHAEL GALLOWAY: Yeah. My railroad
19 only goes 20 miles an hour. It's kind of hard to get in
20 an accident.
21 MAJOR JACK McCOY: Yeah.
22 MR. TOM BERGMAN: It's just a pittance
23 compared to what highway stuff there is.
24 MR. STEVEN BALDRIDGE: So the highway is the
25 ones here?

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1 MS. BONNIE MCKELVEY: Uh-huh.
2 MR. TOM BERGMAN: Well, you've got six
3 derailments in our state.
4 MR. STEVEN BALDRIDGE: Okay.
5 MR. TOM BERGMAN: And not all of those
6 involved HazMat. I mean, we can name them, right,
7 Curtis? I mean, it was Luther. There was one downtown
8 Tulsa. I mean, you know, there's not very many.
9 MR. MICHAEL GALLOWAY: Two of them in Guymon.
10 MS. BONNIE MCKELVEY: Yeah.
11 MR. TOM BERGMAN: Then you start looking at
12 just one stretch of interstate roadway and you can have,
13 you know, 50 collisions.
14 MAJOR JACK McCOY: I mean, there's a lot more
15 variables --
16 MR. TOM BERGMAN: Absolutely.
17 MAJOR JACK McCOY: -- possibilities.
18 MR. TOM BERGMAN: The numbers are staggering
19 for what comes out of Port of Catoosa. I've looked at
20 those, but --
21 MAJOR JACK McCOY: There's not really an
22 issue.
23 MR. MICHAEL GALLOWAY: I mean, truck traffic
24 is -- I don't have exact numbers. But just driving I-40
25 the last 30 years, today it looked like there was more

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1 18-wheelers on the road than cars.
2 MS. BONNIE MCKELVEY: Uh-huh.
3 MAJOR JACK McCOY: Oh, yeah.
4 MR. MICHAEL GALLOWAY: And --
5 MAJOR JACK McCOY: You can move it up to 69
6 and 44, and it's even worse.
7 MS. BONNIE MCKELVEY: Uh-huh.
8 MAJOR JACK McCOY: That's the worse most
9 truck -- or the most major truck traffic.
10 MR. TOM BERGMAN: Absolutely. And, you know,
11 it comes to -- the people I've talked to routinely about
12 this information are people like Johnny Janzen, from the
13 Mayes County LEPC. I mean, those guys really have a lot
14 of material running in and out of there on an
15 uncontrolled access four-lane road, so it's more apt for
16 collisions than some of the other -- but we're hoping --
17 you know, they've -- they've got a lot of data. And
18 eventually, by summertime, we'll get the next batch from
19 your folks or the ODOT folks, as they compile that
20 information, and we -- we try to keep working on it and
21 see what we can come up with that might be of some value.
22 But if guys got some ideas, this is a good time to have
23 time.
24 MS. BONNIE MCKELVEY: Highway 69 issue is
25 what actually kicked off this whole train of thought and

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1 kind of got this going. We were talking about that. We
2 were talking about commodity flow. Because PHMSA, the
3 pipeline group that -- or division that funds the
4 grant --
5 MR. CLIFTON HOYLE: Yeah.
6 MS. BONNIE MCKELVEY: -- they love commodity
7 flow studies. Well, we're talking about the kind that
8 you sit at the corner and count placards or whatever.
9 Well, this -- we were talking about Highway 69 and
10 how that's become such a route for the 18-wheelers.
11 MR. TOM BERGMAN: Uh-huh.
12 MS. BONNIE MCKELVEY: So that's kind of what
13 kicked off all this and now we have what we have. So it
14 was interesting that that was -- the conversation started
15 with that and evolved to, "Let's do something different,"
16 you know.
17 MR. TOM BERGMAN: Well, you know,
18 Mayes County is in halfway decent shape. They've got
19 enough training material, personnel, I mean, you go --
20 you're going to go right through Checotah, right, and
21 McAlester and --
22 MAJOR JACK McCOY: McAlester. There's a ton
23 of little bitty towns.
24 MR. TOM BERGMAN: Absolutely have no resource
25 whatsoever, zero.

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1 MS. BONNIE MCKELVEY: Uh-huh.
2 MR. TOM BERGMAN: Their best resource is
3 going to be the -- probably the Highway Patrol office for
4 that sector --
5 MR. CLIFTON HOYLE: Right.
6 MR. TOM BERGMAN: -- until they can bring in
7 one of the regional HazMat teams.
8 And, you know, we had that 5,000-gallon spill of
9 sulfuric down in Durant. That was on 69, wasn't it? I'm
10 pretty sure it was.
11 MAJOR JACK McCOY: I think so.
12 MR. TOM BERGMAN: Guy went under the
13 underpass bridge and decapitated himself and --
14 MS. BONNIE MCKELVEY: Oh, that, yeah.
15 MR. TOM BERGMAN: There was a lot of sulfuric
16 acid. That was a mess. But thank goodness it was
17 sulfuric acid. If it was some other kind of material
18 that formed vapor clouds and traveled, we would have had
19 a lot more dangerous event. Sulfuric acid is -- it kind
20 of doesn't do much. Just sits there. Eats the concrete.
21 MS. BONNIE MCKELVEY: Sounds bad.
22 MR. TOM BERGMAN: If that would have been
23 sulfur dioxide or hydrogen fluoride or something like
24 that, but -- that's not very good.
25 Anyway, we hope that -- I hope, anyway, that there's

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1 some usefulness to the data that HP, DHS, EM, the fire
2 marshal that you guys can use for something. I'm not
3 quite sure what that is, but I hope there is somewhere in
4 there.
5 MS. BONNIE MCKELVEY: Uh-huh.
6 MR. TOM BERGMAN: Maybe resource allocation
7 or training. If you know, as a result of the data, that
8 you're getting a significant amount of corrosives going
9 through the middle of your town, maybe your fire
10 department needs to get some training on how to deal with
11 a spill of a corrosive. Kind of what I was thinking. I
12 don't know.
13 MS. BONNIE MCKELVEY: Thank you, gentlemen.
14 MR. CLIFTON HOYLE: Yeah, thanks for the
15 update. Yeah.
16 (Applause.)
17 MR. CLIFTON HOYLE: All right.
18 MR. TOM BERGMAN: Good job, Ronny.
19 MR. CLIFTON HOYLE: Any discussions of
20 emergency responses? Curtis, anything? Galloway,
21 anything to talk about?
22 MR. MICHAEL GALLOWAY: No. I'd just like to
23 see Homeland Security get their allotment on the next
24 budget and --
25 (Laughter.)

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1 MS. BONNIE MCKELVEY: They would, too.
2 MR. MICHAEL GALLOWAY: Somehow his boss and
3 me are on that public safety committee for the next
4 governor, and that was one of our recommendations that we
5 put in there, that they fund up the HazMat, replace the
6 monitors and training suits that they use. Because we --
7 we depend on that equipment at the LEPCs, and I've used
8 it a dozen times already, you know, different HazMat
9 incidents, so...
10 MR. CLIFTON HOYLE: Was that through the RRT?
11 Is that who --
12 MR. MICHAEL GALLOWAY: The Regional Response
13 Teams, yes.
14 MR. TOM BERGMAN: Yeah.
15 MR. MICHAEL GALLOWAY: And, I mean, I still
16 think that that's the best-used tool that we've got in
17 Oklahoma is these regional rescue and the regional HazMat
18 facilities, most of which are at fire departments and --
19 But the Homeland Security funding isn't the same as
20 it was, so I'm hoping Oklahoma will step up and just keep
21 those tools in place, bomb squads and all that. That was
22 funded initially right after 2001.
23 MR. TOM BERGMAN: Yeah.
24 MR. CURTIS DRISCOLL: We have asked for
25 additional funding to replace the chemical ID monitoring

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1 equipment that's going out of date. So, you know, it's
2 about a \$2 million project to replace just what's out
3 there right now.
4 MR. MICHAEL GALLOWAY: Can HMEP be used for
5 any of that or is it just training?
6 MR. CURTIS DRISCOLL: For equipment.
7 MR. MICHAEL GALLOWAY: Well, it's monitors.
8 MS. BONNIE MCKELVEY: No equipment for this
9 grant. Planning, training. I'm not saying they couldn't
10 change somewhere down the road, but...
11 MR. MICHAEL GALLOWAY: Well, I mean, the
12 pipeline people keep asking me, "What can we do to make
13 it better?"
14 MS. BONNIE MCKELVEY: Uh-huh.
15 MR. MICHAEL GALLOWAY: And that would be
16 one of the things --
17 MS. BONNIE MCKELVEY: Absolutely.
18 MR. MICHAEL GALLOWAY: -- give us some good
19 monitors locally where I don't have to call Fort Worth to
20 get something.
21 MS. BONNIE MCKELVEY: And I'm wondering if
22 there isn't a grant, in addition to mine, that -- that I
23 received that I'm not familiar with through DOT that
24 maybe --
25 MR. MICHAEL GALLOWAY: Or fire. You know

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1 that --
2 MS. BONNIE MCKELVEY: Yeah.
3 (Multiple speakers.)
4 CHIEF ROBERT DOKE: -- grant, but it closes
5 next week. Never heard of them funding much on HazMat,
6 but it's available --
7 MR. CURTIS DRISCOLL: Yeah. Well, we looked
8 at that, the fire -- the safer grants, you know, and how
9 feasible it was. And our agency, we really couldn't do
10 it. We had to have a third party do it and then have
11 somebody else work with him on that.
12 CHIEF ROBERT DOKE: And if you're a State
13 entity, it really hampers you.
14 MR. CURTIS DRISCOLL: It does.
15 MS. BONNIE MCKELVEY: Uh-huh.
16 MR. CURTIS DRISCOLL: It does. So we -- it
17 came to where it's not viable for us to try to go that
18 avenue.
19 CHIEF ROBERT DOKE: So we're not even
20 possible -- we can't apply for any of those?
21 MR. CURTIS DRISCOLL: Right.
22 THE COURT REPORTER: I can't hear.
23 MR. MICHAEL GALLOWAY: But on that same line
24 of thinking, the host city or county that has your
25 equipment could.

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1 MR. CURTIS DRISCOLL: Right.
2 MAJOR JACK MCCOY: Of course, I can't really
3 speak for the private industry, but I --
4 THE COURT REPORTER: I can't hear.
5 MAJOR JACK MCCOY: -- I -- in the meetings
6 that I've had -- been involved with pipeline, it wouldn't
7 surprise me if they wouldn't come up with the --
8 MS. QUIANA FIELDS: You can't hear?
9 THE COURT REPORTER: No.
10 MAJOR JACK MCCOY: -- financial support for a
11 lot of those things that you're talking about. Because
12 they're -- I mean, they're asking -- in fact, the last
13 meeting I went was over in Yukon, they were asking for
14 what's going on in the communities that we can help with,
15 so they're willing to -- I think they're willing to do
16 that.
17 MR. MICHAEL GALLOWAY: Okay.
18 MR. TOM BERGMAN: So we have an issue with
19 the stenographer being able to hear the discussion.
20 MAJOR JACK MCCOY: Oh.
21 MR. STEVEN BALDRIDGE: Y'all just want to
22 repeat the last 30 seconds? Appreciate it.
23 (Laughter.)
24 MR. CLIFTON HOYLE: All right.
25 MR. TOM BERGMAN: Also, there's a possibility

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1 we could close the meeting because some of these are
2 actually offline-sort-of-discussions and not necessarily
3 needed to be part of the official OHMERC record, would
4 you say?
5 MS. BONNIE MCKELVEY: Uh-huh.
6 MR. TOM BERGMAN: But we don't want to limit
7 the discussion, but maybe it's just not --
8 MR. STEVEN BALDRIDGE: But you don't have the
9 gavel.
10 MR. TOM BERGMAN: I don't. I'm just making a
11 suggestion.
12 MS. BONNIE MCKELVEY: There's a reason for
13 that.
14 (Laughter.)
15 MR. TOM BERGMAN: We don't need to repeat all
16 the last five minutes of discussion.
17 MR. CLIFTON HOYLE: All right. But we can
18 move on to our one action item.
19 MR. TOM BERGMAN: Yeah.
20 MR. CLIFTON HOYLE: In looking at these dates
21 for next year. Maybe slightly controversial. I only
22 proposed three meetings next year. If anybody has a
23 problem with that, now is your chance to voice. If
24 you've had a chance to review them, I'll entertain a
25 motion to approve.

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1 CHIEF ROBERT DOKE: I'll make a motion to
2 approve those.
3 MR. CLIFTON HOYLE: I've got a motion. Do I
4 have a second?
5 MAJOR JACK MCCOY: Second.
6 MR. CLIFTON HOYLE: Second, Mr. McCoy.
7 All in favor, say "aye."
8 (Positive response.)
9 MR. CLIFTON HOYLE: Opposed?
10 (No response.)
11 MR. CLIFTON HOYLE: Hearing none, the motion
12 passes.
13 Mark your calendar, Chief Doke.
14 (Laughter.)
15 CHIEF ROBERT DOKE: I always mark it. It's
16 just whether I can --
17 (Multiple speakers.)
18 MR. TOM BERGMAN: Always mark it.
19 MR. MICHAEL GALLOWAY: When you've got three
20 on the same day and you've got to pick one.
21 CHIEF ROBERT DOKE: Yeah.
22 MR. CLIFTON HOYLE: Anything else? Any new
23 business that we need to address?
24 (No response.)
25 MR. CLIFTON HOYLE: Any comments from the

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1 public? I don't think there's any public here or
2 considered public?
3 Do you have comments?
4 CHIEF ROBERT DOKE: Yeah.
5 MR. CLIFTON HOYLE: You want to enlighten us
6 with something?
7 CHIEF ROBERT DOKE: Yeah. The -- myself and
8 my Assistant State Fire Marshal, Sam Schafnitt, spent
9 several days in Denver with medical marijuana with State
10 Question 788. With that, I came back after the first
11 week. I sent him back up again. We spent a lot of time
12 with the Denver department heads, police department, fire
13 department and the grow facilities. Our main interest is
14 the grow facilities only.
15 As we go through there, Sam has put a presentation
16 up on the grow facilities and the first responder. We're
17 not promoting, we're not demoting, we're not even --
18 we've just saying, "Here's the deal. Here's how the
19 structure has to be built." But the process is amazing.
20 Because you can use anything from water to gasoline to
21 strip the oil off.
22 Well, the presentation, he just about has finished,
23 will be -- will be -- in Fort Cobb, there's a group of
24 EMs. Is that northwest, southwest? Is there an
25 association? But going out there with the 14 public

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1 safety directors in the state, metro chiefs. He's got
2 quite a few. It's about a 30-minute presentation. It's
3 mayors and council members that are not as familiar as
4 this group with emergency response, and about 20 minutes
5 of Q&A, so it would be much shorter for those that are in
6 the business in one way or the other. And then
7 Rusty Rhoades asked for a presentation and Sam will be
8 doing that.
9 So if there's any interest on that. The main thing
10 we look at, other than the building, is the processes,
11 the off-gasing of the vegetation. Is it off-gased, then
12 how do they dispose of the vegetation.
13 And what you'll --
14 MALE SPEAKER: You just smoke it.
15 CHIEF ROBERT DOKE: Yeah.
16 (Laughter.)
17 CHIEF ROBERT DOKE: And some indicators --
18 indicators that you'll see, freon tanks, transformers
19 being replaced, some of those issues. So if you wish, he
20 can come and do that. If not, you're not going to hurt
21 our feelings. But I think he's got five or six
22 presentations for January already. Up to the board.
23 MR. CLIFTON HOYLE: Just let us know.
24 CHIEF ROBERT DOKE: Okay.
25 (Multiple speakers.)

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1 MR. CLIFTON HOYLE: So you're offering?
2 CHIEF ROBERT DOKE: Yeah.
3 MALE SPEAKER: There's your source of money.
4 (Multiple speakers.)
5 MALE SPEAKER: They've got \$8 million already
6 on growing fees.
7 CHIEF ROBERT DOKE: It's amazing because
8 while he's up there, he -- he has arthritis in his wrist.
9 And when he came back, he said it wasn't hurting at all
10 until about a week or two later, so --
11 MR. TOM BERGMAN: Yeah.
12 (Laughter.)
13 MR. CLIFTON HOYLE: What about the disposal
14 of the plant waste? What --
15 CHIEF ROBERT DOKE: Yeah.
16 MR. CLIFTON HOYLE: Because we've -- DEQ has
17 been in contact with the Bureau of Narcotics and their
18 divergent division has taken the lead on that.
19 CHIEF ROBERT DOKE: And that's another good
20 group because OBN, I believe they have two or three
21 different licenses they have to get through them and
22 things they have to hop through. But if it's in our
23 jurisdiction, we're not being notified. So we're working
24 with OBN and our agency. We're trading information back
25 and forth. We've already put a stop work order on two.

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1 But most of them are the small mom and pops in the rural
2 area. Those that are what I call the valid ones, they
3 are growing where their customers are, so I -- I think
4 Weatherford has two or proposed for two.
5 MR. MICHAEL GALLOWAY: I would think most
6 college towns would have more than one.
7 CHIEF ROBERT DOKE: Yeah, they do. But as
8 far as the rural area, it's a mom-and-pop operation.
9 It's going to be difficult for them to meet the statutes
10 on that. Again, the disposal is -- Sam has a part of
11 that that is interesting about the disposal part.
12 MR. CLIFTON HOYLE: Okay.
13 CHIEF ROBERT DOKE: You talk to one group,
14 they say, "Oh, it's doing great." You talk to the group
15 that's disposal, they say it's really terrible. So I
16 think the ones that are saying it's really great, they're
17 the ones that get the money.
18 MR. TOM BERGMAN: So they license -- my
19 understanding was --
20 CHIEF ROBERT DOKE: Yeah.
21 MR. TOM BERGMAN: -- from Colorado anyway,
22 that they license them for three operations; grow,
23 process, and retail.
24 CHIEF ROBERT DOKE: From what I understand.
25 And they limited the number of grow facilities.

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1 MR. TOM BERGMAN: They did, indeed.
2 CHIEF ROBERT DOKE: Where here, I don't know
3 how many are -- 1200 or so. I -- I don't know. And then
4 you'll find out if you take the address off of their
5 license, that that address doesn't exist in that
6 community. So we're trying to figure out what's the --
7 what's the deal with that. But that's going to be their
8 problem, not ours.
9 MR. CLIFTON HOYLE: Well, I would like to
10 hear that presentation.
11 MR. TOM BERGMAN: Yeah, sure.
12 MS. BONNIE MCKELVEY: Definitely.
13 CHIEF ROBERT DOKE: We'll put that on. Send
14 me also --
15 MR. TOM BERGMAN: When is our next OHMERC?
16 You want to do it at OHMERC?
17 MR. CLIFTON HOYLE: Well, it's in April.
18 MR. TOM BERGMAN: Oh.
19 MR. STEVEN BALDRIDGE: You also could have
20 someone from DEQ give kind of the DEQ perspective of all
21 that, all the issues related to environmental and --
22 MR. CLIFTON HOYLE: Fenton Road --
23 MR. STEVEN BALDRIDGE: Yeah.
24 MR. CLIFTON HOYLE: -- is our marijuana
25 expert.

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1 MR. STEVEN BALDRIDGE: You could have a
2 marijuana day at OHMERC.
3 (Laughter.)
4 (Multiple speakers.)
5 MALE SPEAKER: I knew him 20 years ago and he
6 was an expert then.
7 (Laughter.)
8 MR. TOM BERGMAN: Yeah. Product. We call it
9 product, you know.
10 MR. STEVEN BALDRIDGE: The process.
11 MR. CLIFTON HOYLE: Yeah, we could do
12 something outside of this meeting before April if you
13 guys wanted to here or both or and whatever.
14 CHIEF ROBERT DOKE: Just let us know and
15 we'll check Sam's schedule.
16 MR. CLIFTON HOYLE: Okay. All right. Is
17 that it?
18 (No response.)
19 MR. CLIFTON HOYLE: Do we have a motion to
20 adjourn?
21 CHIEF ROBERT DOKE: So moved.
22 MR. CLIFTON HOYLE: Do I have a second?
23 MR. CURTIS DRISCOLL: Second.
24 MR. CLIFTON HOYLE: We're done.
25 (Meeting concluded at 2:55 p.m.)

CERTIFICATION

1
2 I, Jennifer Payne Kaelin, a Certified Shorthand
3 Reporter within and for the State of Oklahoma, do hereby
4 certify that I was present at the proceedings had
5 December 5, 2018; that I recorded in stenotype notes all
6 of said proceedings; and that I thereafter transcribed my
7 notes so taken and reduced same to typewritten form; and
8 that foregoing transcript of proceedings is full, true,
9 correct and complete, to the best of my skill and
10 ability.

11 I further certify that I am not an attorney for
12 nor relative of any of said parties or otherwise
13 interested in the outcome or event of said action.
14

15 IN WITNESS WHEREOF, I have hereunto set my hand
16 and affixed my official seal this 17th day of December,
17 2018.

18 *Jennifer Payne Kaelin, CSR*
19

Jennifer Payne Kaelin, CSR#1748
Official Court Reporter

20
21
22
23
24
25

OKLAHOMA HAZARDOUS MATERIALS EMERGENCY RESPONSE COMMISSION

DATA MANAGEMENT REPORT

December 5, 2018

1. As of December 1, DEQ has received 51,469 Tier 2 reports. Report totals are as follows:

	<u>2018</u>	<u>2017</u>	<u>2016</u>
RMP Sites	313	327	333
EHS Sites	1280	1210	1139
Non EHS Sites	2522	2615	2719
Wind Turbines	2932	2591	1957
Oil & Gas	<u>44297</u>	<u>46080</u>	<u>47418</u>
TOTALS	51469	52823	53566

2. CAMEO training was held at:

Poca City CAMEO	August 23
Sacramento Continuing Challenge	September 5-6
Boise Idaho	September 11-12
Davis	October 1-2
Houston Hotzone	October 18-19
Bartlesville	November 29
Taloga	December 19-20

3. Mr. Bergman and Mr. Wormus attended NASTTPO Conference in Houston on October 15-17.

4. DEQ staff have attended LEPC meetings and conducted presentations as follows:

LEPC Workshop	Broken Arrow	August 21
LEPC Workshop	Ada	August 22
LEPC Workshop	Alva	August 27
LEPC Workshop	Lawton	August 28
LEPC Workshop	Ardmore	August 29
LEPC Meeting	Payne LEPC	September 5
LEPC Meeting	Caddo LEPC	October 11
LEPC Meeting	Canadian LEPC	October 30
LEPC Meeting	McClain LEPC	November 14
LEPC Meeting	Canadian LEPC	November 27
LEPC Meeting	Cleveland LEPC	December 5
SW OKEM Meeting	Lawton	November 1
COEMA Meeting	OKC	November 7-8
OK Marina Assn	OKC	November 15

**OKLAHOMA HAZARDOUS MATERIALS
EMERGENCY RESPONSE
COMMISSION
Attendance Record
December 5, 2018
Oklahoma City, Oklahoma**

<u>NAME</u> and/or <u>AFFILIATION</u>	<u>Address</u> and/or <u>Phone</u> and/or <u>E-Mail</u>
Quinn Field	ODEQ
[Signature] DEQ	
Curtis Driscoll OKOHS	
Donnie McKeley ODEM OEM	
Farzad Yousefian	OSU
Ronny Pacheco	OSU
Mostafa Amin	OSU
Tom Bergman	ODEQ
Kristen Bliss	ODEQ
Matt Wormus	ODEQ
Stark <u>Baldwin</u>	DEQ
Robert Duke	SFM
Michael Galloway	Custer County LERC