In The Matter Of:

DPT. OF INDUSTRIAL RELATIONS
IN RE:

PUBLIC MEETING AND BUSINESS MEETING March 16, 2023

CLARK REPORTING & VIDEO CONFERENCING
2342 SHATTUCK AVE. #145
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10	IN-PERSON & TELECONFERENCE
11	Attend the meeting in person:
12	Ronald Reagan State Building
13	Auditorium
14	300 South Spring Street
15	Los Angeles, CA 90013
16	Attend the meeting via Video-conference:
17	Thursday, March 16, 2023
18	10:00 A.M.
19	Reported by:
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22	
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24	
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1	APPEARANCES	
2	BOARD MEMBERS PRESENT AT RONALD REAGAN STATE BUILDING:	
3	Dave Thomas, Chairman Kathleen Crawford, Management Representative	
4 5	Nola Kennedy, Public Member Chris Laszcz-Davis, Management Representative.	
6	BOARD MEMBERS PRESENT VIA TELECONFERENCE: Barbara Burgel, Occupational Health Representative Dave Harrison, Labor Representative	
7	Laura Stock, Occupational Safety Representative	
8	BOARD STAFF PRESENT AT RONALD REAGAN STATE BUILDING:	
9	Christina Shupe, Executive Officer Autumn Gonzalez, Chief Counsel	
10	David Kernazitskas, Senior Safety Engineer Sarah Money, Executive Assistant	
11	Amalia Neidhardt, Principal Safety Engineer	
12	BOARD STAFF ATTENDING VIA TELECONFERENCE AND/OR WEBEX:	
13	Jesi Mowry, Administrative and Personnel Support Analyst	
14	Lara Paskins, Staff Services Manager. Steve Smith, Principal Safety Engineer	
15	Jennifer White, Regulatory Analyst	
16	ALSO PRESENT AT RONALD REAGAN STATE BUILDING:	
17	Eric Berg, Deputy Chief of Health, Cal/OSHA.	
18	TKO STAFF (*Online attendance):	
19	Sean Acrea Vashish Singh John Roensch *Maya Morsi	
20	PANEL DISCUSSION MEMBERS:	
	Christina Shupe, Executive Officer, OSH Standards Board	
21 22 25	Igino Cafiero, Bear Flag Robotics, John Deere Jassy Grewal, UFCW Western States Council	

Michael Miiller, California Association of Winegrape
Growers

Walter Mizuno, Lyles College of Engineering, California State University, Fresno

Yancy Yap, Senior Safety Engineer, Division of Occupational Safety and Health

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1	APPEARANCES (Cont.)	
2	PUBLIC MEETING COMMENTERS: (*Online testimony)	
3	Bruce Wick, Housing Contractors of California Steve Johnson, Associated Roofing Contractors of	
4	The Bay Area Counties Christie Sasaki, Front-end Supervisor	
5	*Adam Fine, Bluewhite *Helen Cleary, Phylmar Regulatory Roundtable	
6	*Dave K. Smith, Dave Smith and Co. Priscilla Trinidad, Member, USCW Local 770	
7	Marilyn Gonzales, Employee, Rite-Aid Vincent Chairez, Pharmacy Technician, CVS.	
8	*AnaStacia Nicol Wright, Worksafe	
9	*Kelly Trevino, City of Fresno, Economic Development Department *Robert Moutrie, California Chamber of Commerce	
10	*Renee Guerrero Deleon, SoCalCOSH Derek Smith, UFCW, Local 324	
11	Dan Napier, Certified Industrial Hygienist Jeff Jergens, Association of Equipment Manufacturers	
12	*Chris Zeitz, Fresno County Economic Development Corporation	
13	*Travis West, California Nurses Association *Scott Miller, Fresno Chamber of Commerce	
14	*Hector Saldivar, UFCW Work Forward *Mitch Steiger, California Labor Federation	
15	*Christopher Lee, United Contractors	
16	PANEL DISCUSSION COMMENTERS: (*Online testimony)	
17	Jeff Jergens, Association of Equipment Manufacturers Evan Pope, Sabanto	
18	Jassy Grewal, UFCW Bryan Little, California Farm Bureau	
19	*Trent Johnson, Raven Applied Technology	
20	*Chris Zeitz, Fresno County Economic Development Corporation	
21	*Ann Katten, California Rural Legal Assistance Foundation	
	*Jack Winters, Monarch Tractors	
22	*Matthew Allen, Western Growers Association	
23	*Hernan Hernandez, California Farmworker Foundation Michael Miiller, California Association of Winegrape	
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23		Although any Board Member may identify a topic of interest, the Board may not substantially discuss or take action on any matter raised	
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1	PROCEEDINGS
2	MARCH 16, 2023 10:00 A.M.
3	CHAIR THOMAS: Good morning. And live from
4	Los Angeles, California, it's the OSHA Standards Board
5	meeting. Glad to see you all out this morning. This
6	meeting of the Occupational Safety and Health Standards
7	Board is now called to order.
8	I'm Dave Thomas, Chairman, and the other
9	Board Members present here in Los Angeles are Ms.
10	Kathleen Crawford, Management Representative; Ms. Nola
11	Kennedy, Public Member; Ms. Chris Laszcz-Davis,
12	Management Representative. Board Members attending via
13	teleconference are Ms. Barbara Burgel, Occupational
14	Health Representative; Mr. Dave Harrison, Labor
15	Representative; and Ms. Laura Stock, Occupational Safety
16	Representative.
17	Present from our staff for today's meeting are
18	Ms. Christina Shupe, executive officer; Ms. Amalia
19	Neidhardt, Principal Safety Engineer, who is also
20	providing translation services for our commenters who
21	are native Spanish speakers; Ms. Autumn Gonzalez, Chief
22	Counsel; Mr. David Kernazitskas, Senior Safety Engineer;
23	and Ms. Sarah Money, Executive Assistant.
24	Also present is Mr. Eric Berg, Deputy Chief of

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Health for Cal/OSHA.

Supporting the meeting remotely are

2	Mr. Steve Smith, Principal Safety Engineer - Special
3	Consultant; Ms. Lara Paskins, Staff Services Manager,
4	Ms. Jen White; Regulatory Analyst; and Ms. Jesi Mowry,
5	Administrative and Personnel Support Analyst.
6	Copies of the agenda and other materials for
7	today's meeting are on the table near the entrance to
8	the door.
9	This meeting is also being live broadcast via
10	video and audio stream in both English and Spanish.
11	Links to these non-interactive live broadcasts can be
12	accessed via the "Meetings, Notices, and Petitions"
13	section on the main page of the OSHSB website.
14	If you're participating today's meeting via
15	teleconference or videoconference, we're asking everyone

teleconference or videoconference, we're asking everyone to place their phones and computers on mute and wait until they are -- that you're called to speak, and then -- then when you're called to speak, you unmute yourself, and then after you speak, please mute yourself again.

As reflected on the agenda, today's meeting consists of two parts. First, we will hold a public meeting to receive public comment on proposals on occupational safety and health matters. Anyone who would like to address the occupational safety and health

issue, including any of the items on our business meeting agenda, may do so when I invite public comment.

If you are participating via teleconference or video conference, the instructions for joining the public comment queue can be found on the agenda. You may join by clicking the public comment queue link in "Meetings, Notices, and Petitions" section on the OSHSB website or by calling 510-868-2730 to access the automated public comment queue voicemail.

When public comment begins, we're going to alternate three in-person speakers and three remote speakers. When I ask for public testimony, in-person commenters should provide a completed speaker slip to the staff person near the podium and announce themselves to the Board prior to delivering comments.

For commenters attending via web conference or teleconference or video conference, please listen for your name and invitation to speak. When it's your turn to address the Board, unmute yourself; if you're using WebEx or dial *6 on your phone to unmute yourself if you're using teleconference line.

We all ask commenters to speak slowly and clearly when addressing the Board. And if you are commenting via teleconference or video conference, remember to mute your phone or computer after

commenting.

Today's public comment will be limited to two minutes per speaker and the public comment portion of the meeting will extend for up to two hours so that the Board may hear from as many members of the public as is feasible. Individual speakers and total public time limits may be extended by the Board Chair, me. So we're usually pretty flexible.

And after the public meeting is concluded, we will hold the business meeting to act on those items listed on the business meeting agenda.

We'll now proceed with the public meeting.

One second here. Yeah, we'll now proceed with the public meeting. Anyone who wishes to address the Board regarding matters pertaining to occupational safety and health is invited to comment, except, however, the Board does not entertain comments regarding variance matters. The Board's variance hearings are administrative hearings where procedural due process rights are carefully preserved. Therefore, we will not grant requests to address the Board on variance matters.

For our commenters who are native Spanish speakers, we are working with Ms. Amalia Neidhardt to provide translation on their statements into English for the Board.

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1	At this time, Ms. Neidhardt will provide
2	instructions to the Spanish-speaking commenters so that
3	they are aware of the public comment process for today's
4	meeting.
5	Amalia.
	MS. NEIDHARDT: (READS THE FOLLOWING IN SPANISH)
6	"Good morning, and thank you for participating in today's Occupational Safety and Health Standards Board Meeting. The
7	Board members present here in Los Angeles are Mr. Dave Thomas, Labor Representative and Chairman; Ms. Kathleen Crawford, Management Representative; Ms. Nola Kennedy, Public Member; Ms. Chris Laszcz-Davis, Management Representative.
	The Board Members attending via teleconference are Ms. Barbara Burgel, Occupational Health Representative; Mr. Dave Harrison, Labor Representative; and Ms. Laura Stock, Occupational Safety Representative.
1	"This meeting is also being live broadcast via
2	video and audio stream in both English and Spanish.
3	Links to these non-interactive live broadcasts can be
4	accessed via the "Meetings, Notices, and Petitions"
5	section on the main page of the OSHSB website.
6	"If you're participating in today's meeting via
7	teleconference or videoconference, please note that we have limited capabilities for managing participation during public comment periods. We are asking everyone who is not speaking to place their phones or computers on mute and wait to unmute until they are called on to speak. Those who are unable to do so will be removed from the meeting to avoid disruption.

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As reflected on the agenda, today's meeting

- 10 meeting to receive public comments or proposals on
- 11 occupational safety and health matters.

"If you are participating via teleconference or video conference, the instructions for joining the public comment queue can be found on the agenda. You may join by clicking the public comment queue link in "Meetings, Notices, and Petitions" section on the OSHSB website or by calling 510-868-2730 to access the automated public comment queue voicemail.

"When public comment begins, we're going to alternate three in-person speakers and three remote speakers. When I ask for public testimony, in-person commenters should provide a completed speaker slip to the staff person near the podium and announce themselves to the Board prior to delivering comments.

"For commenters attending via web conference or teleconference or video conference, please listen for your name and invitation to speak. When it's your turn to address the Board, unmute yourself if you're using WebEx or dial *6 on your phone to unmute yourself if you're using teleconference line.

"We all ask commenters to speak slowly and clearly when addressing the Board. And if you are commenting via teleconference or video conference, remember to mute your phone or computer after commenting.

1	"Today's public comment will be limited to four
2	minutes for speakers utilizing translation and the public comment portion of the meeting will extend for up to two hours so that the Board may hear from as many members of the public as is
3	feasible. Individual speakers and total public time
4	limits may be extended by the Board Chair.
5	"After the public meeting is concluded, we
6	will hold the business meeting to act on those items
7	listed on the business meeting agenda.
8	"Thank you."
9	CHAIR THOMAS: Thank you, Amalia.
10	You know, I used to try and follow her, but
11	it's English, so I'm trying to figure out everything
12	she's saying. But then I figured I'd just listen for
13	"Gracias" and that's it.
14	So she does a great job. Thank you, Amalia.
15	You do a really good job.
16	So at this time if there are any in-person
17	participants who would like to comment on any matters
18	concerning occupational safety and health, you may begin
19	lining up at this time.
20	And I notice we have a police officer in the
21	back of the room. So if you decide to rush the Board
22	for any reason I think we have protection; I'm not

1 sure. 2 Anyway, so name and affiliation, please. 3 MR. WICK: Thank you, Chair Thomas. Bruce Wick, Housing Contractors of California. 4 I'd like to comment quickly on three regs that 5 are in various stages of process. 6 7 As we know, regulations -- words on paper don't protect workers. How we protect workers is 8 9 educating workers, their supervisors, and the 1.4 million safety coordinators that there are in 10 California for employers. And then we craft a good reg 11 that they all understand, that meshes with their 12 13 education, their understanding of something. 14 The good news is Cal/OSHA has Brandon Hart 15 leading the publications department and he does a great 16 job. But he will only publicize things that are -- he's told to. And I -- what I would like to see is more 17 education and disseminated far and wide. We have a lot 18 19 of avenues for that. 20 If we have a well-crafted reg, then -- in the 21 education -- then employees, their advocates, and 22 employers can complain and have enforcement come in for 23 those employers that don't want to comply. But even

within a company, safety coordinators understand the

They can discipline their supervisors.

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they're not following, supervisors can discipline
employees when they're not following. That's how we
protect people. And the good news is we have an
effective enforcement division under Debra Lee in
Cal/OSHA.

So the key is getting education. And while you all are part of developing the reg, I'd like you really use your voice to tell the Division, "Don't wait until regs are given to us before they publicize education. We need it and they have so many avenues to do that."

So the three regs: Indoor heat. As you know,
Senator Leyva back in 2016 passed a bill that said, "Hey,
we have warehouse workers in the Inland Empire and some
others. They need protection."

And we had the first advisory committee

February 28, 2017, over six years ago, and a gentleman

named Bruce -- so I paid attention to Bruce. He came -
he's a logistics worker, came all the way up from

Southern California to Oakland and talked about the job

he does. And I've done that work -- hand stacking and

unstacking of freight and freight trailers. It's

honorable work; it's hard work, necessary work. But in

a hot trailer that's unventilated, it -- that's a

hazard.

He took a day off to come to talk to everybody. And where the bill allowed Cal/OSHA to back off from covering everybody and just said, "We can focus on those employees who have that kind of exposure, the consensus amongst the parties drafting it." And some on the workers' advocates were, "No, let's cover everybody."

And I said, "If we do that, you're not going to protect Bruce. We're going to be five years down the road and he still won't have a regulation. So let's educate. Let's put out something that educates people on indoor heat."

And the -- Senator Leyva knew and the bill talked about Cal/OSHA had sustained citations under the IIPP for indoor heat. So we knew that could happen. So I think we failed Bruce and all his colleagues who needed a reg. And here we are six years later and something will come down next month, but it's not ready, because it's trying a "one size fits all."

Workplace violence, similar -- similar issue.

In 1995, we developed a very simple thing, part of the IIPP, that said -- especially for those employers with minimal exposure, said zero tolerance for threats. If an employee is a former employee, they are not allowed back on the work site unless given specific permission and everybody knows. And every employee is empowered to

dial 911. That's simple. That's protective.

Nothing has been done, educationally, changing for general industry since 1995. Please tell -- ask strongly the Division to put something out until we get our reg developed and promulgated. This is really important.

And then we have lead. So the last advisory committee was 2015. In those eight years, a lot of people who were involved in advisory committees have retired, left, and a lot of people who should be involved weren't here yet. They've been hired or they've been promoted or something. So we should have an advisory committee.

And we had a draft from 2016 that in construction was 33 pages long. Suddenly we get a draft reg under 45-day public comment, 85 pages long with substantial changes to the reg itself, and then the three appendices have a whole lot of changes that are the other 47 pages. How can we have a 45-day public comment period that could be effective with that?

So, please, we need to extend the public comment period. I really hope there's a way we can do an advisory committee, because there's just too many people that need to engage who haven't been -- you know, who weren't there eight years ago when we had the last,

when there's a lot more to do. So please give us that. 1 2 Steve Johnson's going to talk a little bit 3 more specifically about the lead reg. But you have a strong voice to go back to the 4 Division. Please tell them, "Let's educate." 5 6 And on these, you know, it's nice to say we 7 want a one size fits everybody and let's cover 8 everybody, but we aren't doing people like Bruce right when we do that. We need specific regs or a reg that 9 covers some people specifically and, you know, minor for 10 those employers with minimal exposure. 11 12 Thank you. 13 CHAIR THOMAS: Thank you. 14 He used up all your time, so let's just go to 15 -- no. Go ahead. Go ahead. MR. JOHNSON: Good morning, Mr. Chairman, 16 members of the Board, Division staff, and Standards 17 18 Board staff. My name is Steve Johnson. I'm -- I represent Associated Roofing Contractors of the Bay Area 19 20 Counties. We're a regional union roofing association. 21 And one of the things that I wanted to kind of 22 expand a little bit on what Bruce was talking about with 23 the -- the lead regulations specifically for construction. And I completely agree with extending the 24

comment period, completely agree with reconvening an

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advisory committee to really go over and have the time to review what is a lengthy regulation with a lot of changes.

Just -- just to give you a few, the introduction of trigger tasks into construction, basically, it presumes that any trigger-task work will be above the PEL. And it pulls in things like requiring portable showers on job sites, requiring medical surveillance prior to even going on the job, requires administrative controls, requires documenting administrative controls, requires review of revisions and updates every six months to the exposure control plan and to the elevated blood lead level response plan, two written plans that have to be reviewed every six months.

I haven't seen that in any other regulation.

I mean, generally, there's a requirement for an annual review. This requires the person doing the review to, you know, document who that person is, requires every six months that they have to review it, and if you miss that by one day, then that's a potential for a citation.

I just don't understand how that contributes to employee safety.

The new appendice -- the additions to the new appendices. The regulations are ultimately supposed to

be written for the regulated public. This regulation as it stands right now is confusing. The additions that have been made just since 2016, it reads like the tax code. You can't read three or four sentences without referring back to another section of the regulation where it -- it's completely confusing.

In my position, I'm the one who tries to provide training for our roofing contractors. If I can't understand it, as somebody who's been working in health and safety for 30 years, I don't expect the average roofer to even have a concept or a grasp of what they're trying to do. Roofing owners, it's -- it's -- there's a lot to unpack.

And ultimately I think with the additional impact, the costs to the consumer haven't even been calculated in the SRIA. An average homeowner will have to pay an additional \$21,000 to have a roofing crew go and work on their house to get a new roof if there's going to be any lead flashings, the way the regulation's written. That will be the impact to the homeowner.

We -- our association is made up of union employees, union roofing contractors. I can see this affecting union jobs. I can see union jobs going away with the additional cost impact that is going to be a result of the way this regulation's written. So we need

time to unpack this. We need time to talk with the Division. We need time to educate and train, as Bruce was saying.

And I just -- you know, I want to leave it at that and thank the Standards Board staff for -- for meeting with -- with Bruce and I and other roofing representatives just to kind of air our grievances a little bit. And that was appreciated, and I think -- I think -- helpful. We need more time to talk with the Division. We need the Division to be open to an advisory committee in extending the comment period.

Thank you.

CHAIR THOMAS: Thank you. So I have one more commenter from here and then we'll go to the phones.

So go ahead.

MS. SASAKI: Good morning, everyone. My name is Christie Sasaki. I've worked in the grocery industry for 33 years and I'm here today to speak about my experience with workplace violence.

I'm currently working as a front-end supervisor at a Pavilions grocery store in Beverly Hills. It's an affluent area and everyone might think it's safer there, but it's not. However, my coworkers and I are exposed to many workplace violence incidents at all times. On a daily basis we have some customers

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verbally abusing employees and people stealing at my store. Many times we have shoplifters who are extremely aggressive.

In late January at approximately 9:35 p.m., our liquor alarm went off. Looking into the monitor at the front desk, our security guard on duty noticed two people heavily shaking the liquor cabinet. The individuals then approached the front and asked me for four bottles of liquor. I opened the front case while a coworker helped me gather the bottles and deliver them to my checkstand. We didn't want these aggressive people in the store any longer than necessary.

After scanning the four bottles and without paying, one of the individuals grabbed the bottle and walked towards the door. The second person tried to do the same thing with the remaining bottles on the conveyor belt, but my coworker grabbed them first.

Perpetrators were a male and a female. I recognized one of them from a previous incident involving the same scenario -- the smash/grabbing to steal. Both ran out the door to their car that was parked in the handicapped spot, backed into the stall right in front of the store and all ready for their getaway.

The guard and I walked to the main door. The

guy turned around and looked at both of us in the eye and said he was going to blow us away. It was very scary. I didn't know if he had a gun in the car. I feared for my life. My coworkers later shared with me that they had the same feeling. We work the most dangerous shift and there's no one else in the store, just the three of us.

Just the thought that they might have killed me in the process is distressing. My daughter wouldn't have a mother. My friends wouldn't have me to join them for lunch. My parents wouldn't have me to hug. I took this incident very seriously and called the police.

I sent a report to the company, but they didn't do anything beyond taking the report.

Unfortunately, we're not properly trained to deal with these types of workplace violence situations. I did receive training as a supervisor. The training consisted of a few minutes on the company computer. That training basically advised us to make ourselves visible and to confront the person by asking them if they needed any help.

I work in a small store, which is often busy and has a constant flow of customers. The problem is that we work understaffed. It's just me running the entire store, working with just two more employees. I

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feel responsible for everyone's safety in the store,
1
2
    including customers.
 3
              The company needs to improve the safety and
 4
    security in the store. We need properly trained
    security guards who can tackle thieves and are not just
 5
 6
    there for deterrence. The company could do better and
    invest more to protect workers and customers in the
7
8
    store.
 9
              That's why I urge the Occupational Safety and
    Health Standards Board Members to support me and all
10
    retail workers to have workplace safety standards in
11
12
    place that can protect us and our customers from
13
    workplace violence.
14
              Thank you very much.
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              CHAIR THOMAS: Thank you.
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              So we're going to go to our -- go to our
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    people that have called in on the queue. So, John, who do
18
    we have?
19
             MS. MORSI: Up first is Adam Fine with
20
    Bluewhite.
21
              This is Maya. Sorry.
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              CHAIR THOMAS: Where are you, Maya? I was
23
    looking for you.
24
              MS. MORSI: I'm remote.
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CHAIR THOMAS: Okay. Well, that's why I

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couldn't find you. Okay. Who do we have? 1 2 MS. MORSI: Adam Fine with Bluewhite. 3 CHAIR THOMAS: Adam, can you hear us? MR. FINE: Yeah. Can you hear me all right? 4 5 CHAIR THOMAS: Yeah. Go right ahead. 6 MR. FINE: Fantastic. 7 So I'm here to speak on the autonomous tractor 8 regulation today. 9 Chair Thomas, members of the Board, thank you. My name is Adam Fine and I'm a business development 10 manager at Bluewhite, but I'm also speaking in a 11 12 personal capacity. 13 A large part of my job is to recognize and 14 highlight opportunities, and that is what I'm here to 15 share with you today. We have a chance, if we do this correctly, to have a real and meaningful conversation 16 17 about autonomous technologies and what they're capable 18 of. 19 Firstly, workplace safety is the greatest 20 opportunity. We hear the argument that keeping an 21 operator in the cab of an autonomous tractor will be the 22 safest. However, tractor rollovers account for 23 150 deaths in the United States each year. Moving the operator from the equipment to a remote location 24 25 prevents this from ever happening again.

We also hear concern for workers that may be endangered in the path of travel. This is a concern shared and solved by many manufacturers as a basic function of the technology. Furthermore, agricultural equipment operators face secondary risks of chemical, noise, and heat exposure, which this technology makes unnecessary.

We often hear fears that autonomous equipment will remove jobs, but the data doesn't support this.

California state EDD counts 15,000 tractor operators in California with 30,000 positions needed. That's 50 percent unfilled.

With autonomous technology, this allows those 15,000 operators to make up the missing (unintelligible). California Economic Development and CDFA already know this and have secured nearly 80 million in state and federal grant funding for the creation of an agriculture technology hub in California's Central Valley.

And I quote: According to the Fresno-Merced
Future of Food Innovation (F3) and Fresno County
Economic Development Corporation, the money will support
roughly 1,000 small farmers, training for 8,000 for
other food and ag workers, and help increase wages.

In addition, the I-Create tech hub allows

research and resources as well as partnerships with 1 2 UC Merced, Fresno State, and the region's eight 3 community colleges. Students and workers will have access to training, job placement opportunities for this 4 5 new technology. Within the next three years, the goal 6 is to see at least 2,500 new jobs focused around 7 agriculture technology --8 CHAIR THOMAS: We -- we lost you. We lost your voice. I don't know what happened to your audio. 9 10 MR. FINE: Sure. CHAIR THOMAS: There you go. 11 12 MR. FINE: Sorry. 13 Based on the 200 global ag technology 14 companies that gathered in Fresno for the FIRA 15 conference last October, those 2,500 jobs are easily achieved, if not greatly underestimated. Startups in ag 16 17 tech raised 50 billion in funding since 2021 and will 18 gladly spend that growing in California given the 19 opportunity. 20 Technology is a force multiplier. It has the 21 unique capability of bringing opportunities to those 22 without them. I myself came from a service industry 23 background, working in restaurant kitchens until I was 24 paralyzed in a road collision. Learning autonomous

technologies allowed me to re-enter the workforce, start

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a business, and ultimately regain my independence. I still use technology each day for everything that I do and I am so grateful for that opportunity.

And so I would ask you, the Board, do agricultural communities not deserve that same opportunity to increase their skills, leverage technologies, and improve their lives? Academics, government, economic development, industry, and labor all have aligned incentives to see autonomous agriculture succeed and benefit from it. An advisory committee is the only mechanism where these groups can come together and have a real problem-solving conversation. Autonomous technology will bring economic growth and well-paying high-tech jobs with transferable skills to disadvantaged agricultural communities and, most importantly, remove operators from heat, noise, chemical, and machinery hazards.

And so I implore the Board to impanel an advisory committee to investigate how we safely integrate autonomous equipment on California farms. It is an opportunity that we can miss together or share together.

Thank you for your time in listening to me today. I am hopeful for continued and fruitful cooperation with Cal/OSHA. Thank you very much.

Good morning, Chair Thomas, Board Members, and staff. I am Helen Cleary, the director of PRR
OSH Forum.

I'd like to address the proposed amendment to the lead standard for construction in general industry. PRR members, particularly utilities and communications, are very concerned about the proposed amendments to the construction standard, specifically how the requirements will impact repair and maintenance operations. PRR members request that the Division consider frequency and duration and are frustrated their valid concerns and experiences are not reflected in the proposed text.

We are working on written comments and are planning to testify at the hearing next month, but wanted to voice our concerns as soon as possible so the Board is aware of some detail.

To be clear, we're not opposed to the overall objective of reducing the blood lead burden of workers. We agree and understand that exposure to lead at lower levels can have harmful health effects that were not understood when the regulation was published in 1978.

Our primary concern is that when the triggers were significantly lowered, which greatly expanded the scope, the required controls did not change and they became more complicated. Changing the numbers and

keeping the required employer response similar may sound like it makes sense, but a different strategy is needed to address the operational impact from the new lower action levels and permissible exposure limits.

We don't think that it's reasonable to manage these lower levels in the same way that employers are responding to the current levels in the rule.

Such a low action level will result in the need for exposure assessments for a multitude of worker tasks that most likely will not result in exposure above the lowered PEL. Despite this, the employers required to implement interim protections regardless of duration, frequency, and level of risk of a worker's potential exposure until an exposure assessment is complete.

The interim procedures are significant.

Respiratory protection PPE change areas in medical surveillance that may include blood lead testing or some of them. This may be reasonable for workers who are known to be exposed to lead on a daily basis or are anticipated to be exposed above the PEL, but we don't think it's reasonable for all potential exposures that may reach an action level as low as two micrograms per cubic meter of air. We believe these burdensome steps will result in unnecessary over-protection.

Another industry concern is the updated

accuracy of measurement requirements in (d)(9). The traditional method of analysis (unintelligible) is not sensitive enough to reach the two-microgram threshold, especially during short-term tasks. And we're not aware of another NIOSH analytical method that can even meet this employer requirement.

In addition, the rule seems to be written for fixed work spaces and does not consider mobile workforces or emergency operations. We see this in the requirement to provide shower facilities and the removal of the feasibility consideration.

Regarding both construction in general industry, the new definition of altering and disturbing will unnecessarily increase the number of California employers and industries that are subject to the rule. Employers not typically required to follow the lead standards will need to consider a myriad of tasks the workers may be directly or indirectly subject to because there is a potential for low-risk exposure to lead, including all work that disturbs roadside soil anywhere in the state.

Another example in general industry, employers will be required to have a training program for employees who are exposed to lead at or above the action level, which is now two micrograms per cubic meter of

air "on any day". That training requirement alone will have a huge impact on businesses of all sizes in California.

PRR realizes that this rule has been in the works for many years and DIR, Cal/OSHA, and the Board are eager to finalize it. However, addressing the concerns the industry is trying to communicate throughout the process is integral to a final rule that's effective, and involving employer stakeholders who are unaware that this -- they will be impacted is also important.

Division staff acknowledged at the last advisory committee meeting -- it's on Page 10 of the meeting notes -- that someone -- that something needed to be done to address the concerns of utilities, the communication industries, cities, counties, state.

Somebody even mentioned the highway patrol.

When we compared the drafts from 2015 that was used at that meeting, the 2016 draft that was revised after the meeting and submitted for the SRIA and today's proposal, besides becoming more onerous, not much was different in the drafts. This group was disappointed to see and we think illustrates the valid industry concerns were not addressed and that consistence wasn't achieved. We're hopeful the Division and the Board will listen to

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industry's valid concerns and respond with proposed
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2
    amendments before a final rule is adopted.
 3
              Thank you for your time today and it's nice
 4
    being on camera.
 5
              CHAIR THOMAS: Thank you, Helen.
 6
              Who do we have next, Maya?
              MS. MORSI: Up next is Dave K. Smith with
 7
    Dave Smith and Co., safety consultant.
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              CHAIR THOMAS: Can you hear us, caller?
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              MR. SMITH: Yes, I can. Can you hear me?
              CHAIR THOMAS: Yeah. Go right ahead.
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              MR. SMITH: Great. Well, good morning to the
    Board and attendees. I'm Dave Smith, a safety
13
    consultant in California and the author of Petition 483
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15
    on first-aid kits. And I'm back.
16
              Seventeen years have passed and we still can't
17
    tell California employers which first-aid kit to buy.
18
    At the February Board meeting there was surprise among
19
    the regulated community. The promised first-aid kit
20
    standard was not on the agenda. And this month, the
21
    April meeting web post mentions only the lead standard
22
    revisions.
23
              Can we get the first-aid kit package on the
24
    April agenda, or does it have to wait until May? And
25
    then, if not May, then when? Will it be another 17
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years?

I understand that this issue gets postponed because of more significant hazards or issues such as we've heard already this morning. The reasons for the delay include lack of resources or staff.

My observation is there are few, if any,
employer and labor safety and health departments that
don't have enough to do. Many safety and health
departments are in constant triage mode, always choosing
what to focus on immediately and then postponing the
rest.

However, if the Division were to open an inspection -- a regulatory enforcement action -- an, employer excuse of, "We don't have enough resources" would no doubt be heard as, "We don't want to follow safety and health laws." That excuse simply won't work.

Most safety and health professionals, including me, have been there, been triaging safety issues at some point in their career. A fast way out of the eternal lack of resources is to do the easy ones first and then tackle the more complicated issues. First-aid kits are an easy one.

In February, comments by both Board Members and employer representatives show there's little or no opposition to the revision of the first-aid kit

I encourage the Board and staff to get

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L	standards

first-aid kits done so that we can deal with the many safety issues that we've already heard this morning, and I encourage the Board to vote yes on this long overdue proposal.

Thank you very much.

CHAIR THOMAS: Thank you.

So now we'll go to in-person commenters. So welcome to the podium and state your name and affiliation, please.

MS. TRINIDAD: Hello. Good morning, members of the Occupational Safety and Health Standards Board. My name is Priscilla Trinidad. I am a USCW Local 770 member and a grocery store worker for almost 19 years now.

Thank you for allowing me to testify at today's hearing on the urgency and need to address workplace violence in general industries, including retail. Workers like myself must be protected because workplace violence affects all essential grocery store workers.

According to OSHA, each year nearly two million American workers are victims of workplace violence.

Workplace violence is the second leading cause of fatal

occupational injuries in the United States, and hate crimes have quadrupled at grocery stores since 2010, making them a hotbed for racism and workplace violence.

At my Von's grocery store, which is located in a nice neighborhood in West Los Angeles, workers are subject to verbal, emotional, and physical abuse every single day by the public. On one occasion, a shoplifter pulled out a knife when asked to not take items without paying. Unfortunately, this incident is not unique. There have been customers who throw stuff at us, spit at us, and call us racist names. I've had bottles thrown at me. And our store had an employee who was punched in the eye. She quit because she was traumatized and didn't feel safe at the store anymore.

We should not have to worry about whether we will be safe at work or come back to our families when our shift ends. The harassment and violence that everyday essential workers have to bear takes a mental toll on us up to the point that some workers don't want to show up for work the next day because they feel so unsafe at their store.

Last year a fellow union member and Rite-Aid worker, Miguel Nunez Penaloza, who worked at a store in Los Angeles paid the ultimate price and was murdered on the job after confronting a shoplifter.

Company policy requires that employees approach potential shoplifters and ask them, "Hi, how can I help you?", even when we know they are in the middle of a crime and could physically harm us. These company policies put workers at risk.

This is a reminder that it is not our responsibility to confront and stop theft at the workplace, especially when it requires us to put ourselves in harm's way.

Sometimes grocery workers will have security guards present to assist with incidents at the workplace, but often the security guards are only there for a limited period during the day, and then we have no security in the early morning or late at night, leaving gaps in coverage.

The security guards' responsibilities vary, and sometimes they are limited in what they can do to respond when an incident happens, and oftentimes they themselves are attacked. This does not make us feel safe at our workplace.

Currently, there is no internal rapid-response system in the place to respond and de-escalate situations. We are told by management to call 911 or law enforcement hotline number, which is rarely staffed. Even when we call law enforcement, the response time is

very delayed. Law enforcement will show up hours later, days later, or not at all, and we are left feeling very alone, having to deal with these often dangerous situations by ourselves. With the knife incident we had a few months ago, law enforcement didn't show up until the next day. The situation could have escalated and become very tragic in that amount of time.

As workers, we approach our employees when incidents are happening, who then push us off to law enforcement, and neither of these entities take responsibilities for assisting us when workplace violence incidents happen.

In my eighteen, almost nineteen, years as a grocery worker, I have not once encountered Cal/OSHA enforcement staff at my store. Without an enforceable Cal/OSHA workplace violence prevention standard or intervention from the legislature, nothing will change at my store and we will have to continue to endure these insufferable daily incidents. Employers must be required to provide training to workers on workplace violence, what to do when an incident happens, and what are our rights for post-incident recovery.

They should also be required to provide training on how to safely respond in a shoplifting incident. Additionally, employers must look at their

staffing levels as a cause for workplace violence incidents occurring in the first place.

I strongly urge Cal/OSHA to adopt an enforceable general industry workplace violence standard immediately that is as strong or stronger than the healthcare standard. We have waited six years and cannot wait any longer.

Thank you.

CHAIR THOMAS: Thank you.

Good morning.

MS. GONZALES: Good morning.

Good morning, Members of the Occupational
Safety and Health Standards Board. My name is
Marilyn Gonzales. I worked in the drug retail business
for six years. I currently work as a shift supervisor
at Rite-Aid store in Los Angeles. I'm here today to
speak about how workers like myself are exposed to
workplace violence every single day.

Just to give you an example, sometime in September 2022, around 6:30 p.m., a fellow employee who works in loss prevention was opening a case of merchandise to help a customer. All of a sudden, a man with a gun approached the employee and shot at his head.

I was the manager on duty at the time and working at the cash register and heard the gunshot. It

was pretty loud. Luckily, the employee ducked and dodged the bullet. As my coworker ran to the emergency exit, he yelled at me to call 911, as the shooter followed him. I could see my coworker's fear in his face. Fortunately enough, he was able to run away and save his life.

I immediately called 911 and police officers showed up right away. They evacuated the store, getting out the pharmacy staff and customers, and searched for the shooter, who managed to escape. Everything happened so quickly. With me there were two other cashiers in the store. All of us were in shock, but I was able to take the two cashiers and the loss-prevention employee to the manager's office for safety. At that moment, all I thought about was self-preservation. Of course, I was so scared.

Even though I feared for my life, I had to stay strong because my coworkers and customers are under my responsibility. At the time of the incident, there were no security -- security guards, pardon, in the store. The company hired a 24-hour security guard after the incident, but that was for only three days. To me, this is not an effective solution. This is just a Band-Aid.

The company provides us with Sprout learning courses. These courses are like self-learning. For

example, they expect us to learn about emergency preparedness as well as active threat. In my opinion, these courses are impractical because real-life situations are unpredictable. It would be more helpful if we were trained in active-shooter drills to learn better strategies on how to handle these types of situations. We also need adequate staffing in the whole store, especially at the front area, to serve as -- to serve as a deterrent for shoplifters and to better respond to incidents like this.

We also need adequate mental health counseling and time off to process such experiences. The company offered two sessions of counseling, which helped a little bit, but we had to attend those sessions on our own time.

Since the incident, I feel anxious going to work every single day. It was a very traumatic experience for me. I am a mother of four. When I got home that night, I didn't tell my children about the incident. I felt that the last thing for them to worry about is my safety.

After the incident, management reminded us that this could happen to any of us at any time. And as workers, we're just like -- we need to keep our job, even if we have to risk our lives. It shouldn't be like

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1 that.

We have asked our company to hire security guards, because as of today we only have guards from 12:00 p.m. to 2:00 a.m. and we need -- and we do need security guards from the time we open -- we open the store until we close.

Workers like myself shouldn't have to go to work every day wondering whether we're going to make it through the day or whether we'll be leaving work safely. We need a change. My favorite quote is: If not now, then when? It's not tomorrow, not yesterday. It's now. The time is now.

I call on the Occupational Safety and Health Standards Board Members to support me and all retail workers to have workplace safety standards in place that protect us and prevent us from becoming another statistic. I am worried another incident like this will happen in my store, but this time myself or my coworkers might be the ones shot and killed and not come home to our families.

The California Workplace Violence Prevention standard should protect all workers, including workers in the drug retail industry like myself.

24 Thank you for the opportunity to speak about 25 this matter.

CHAIR THOMAS: Thank you.

Who do we have next?

MR. CHAIREZ: Good morning, Chair and
Standards Board Members. My name is Vincent Chairez.

I'm a pharmacy technician for CVS and also a shop
steward. I'm here to testify on the urgent need and for
the general industry workplace violence standard.

We have been waiting too long for California to adopt protections for non-healthcare workers. It's been since 2017, and we can't wait any longer.

In the community pharmacy setting, we have not only the typical retail theft and transients, but the 24-hour store also deals with the threat of life over narcotics.

At my store, there was an incident where a pharmacist in her professional judgment denied a script, deeming it tampered. The patients were really abusive, belittling, and threatened my staff and my coworkers and they waited outside. Unfortunately, they had to be escorted outside by the front-of-store employees because management was nowhere to be found. Fortunately, when the pharmacists went outside, the police then were called and then they were escorted safely over to their cars. And those people were eventually taken to jail and were later identified as gang members of a local gang in

Carson who had just recently been released.

This led to a plea for myself, because I am the shop steward. I got to have a personal meeting with my president, to the executive director of labor relations, Christopher Gitaz (phonetic) -- sorry -- of CVS, requesting security and some kind of protocol for future incidents if this happens. I was told this was too costly, even though my pharmacy has made millions of dollars because of COVID and it will continue to make millions of dollars after.

CVS has failed to implement any necessary changes to make sure workplace violence incidents do not happen again. I should not have to live in fear for performing my job or safety for leaving my job because we uphold the pharmacy standards.

I strongly urge the Cal/OSHA Standards Board to protect workers and swiftly pass a general industry workplace violence standard so no other worker has to experience workplace violence like my coworkers and I have. Workplace violence is a worker health and safety emergency and needs to be treated like one.

Thank you for your time.

CHAIR THOMAS: Thank you.

We're going to move to the queue for in-phone

-- phone calls. So, Maya, who do we have up?

1	MS. MORSI: Up next is AnaStacia Nicol Wright
2	with Worksafe.
3	CHAIR THOMAS: Go ahead.
4	Is it Nicol?
5	MS. WRIGHT: Hello.
6	CHAIR THOMAS: Hello.
7	MS. WRIGHT: AnaStacia.
8	CHAIR THOMAS: Yeah, go right ahead.
9	MS. WRIGHT: Thank you.
10	So, good morning, Board Members and
11	colleagues. I'm AnaStacia Nicol Wright with Worksafe.
12	Firstly, I'd like to we'd like to address
13	our concerns on automated agricultural equipment.
14	Labor-replacing autonomous machines may hold out the
15	promise to reduce or eliminate certain agricultural
16	worker safety risks when work sites are secured and no
17	workers are present. But at present, or right now, the
18	technology still presents a wide range of health and
19	safety concerns for workers. Many of these concerns
20	simply can't be overcome, as our modern-day technology
21	still remains susceptible to glitches, signal losses,
22	hacking, et cetera.
23	Technological advancements are unavoidable and
24	they're not always bad for workers. However, we need to
25	incorporate these advancements cautiously considering

what we know are tools that are safe for employees, as opposed to simply what's best for the employers' bottom lines.

Autonomous agricultural techs should not be implemented in California until we've brought an appropriate worker safety infrastructure that addresses all the concerns highlighted by our colleagues, like UFCW, CRLA Foundation, and California Labor Federation.

Secondly, Worksafe would like to express its support for the lead standard. The proposed draft would safeguard the health and safety of workers by decreasing the safe blood levels by half. It would also give guidance to employers to protect workers based on task so we don't need to rely on air testing only.

Lastly, it will ensure that workers get medical testing for lead exposure by qualified healthcare providers.

And, with that, that might be the shortest comment I've ever made. So you're welcome and thank you all.

CHAIR THOMAS: Thank you.

Who do we have next, Maya?

MS. MORSI: Up next is Lance Lippincott with City of Fresno.

25 CHAIR THOMAS: Lance, can you hear us? Come

1 on, Lance. Are you there? Apparently not. 2 We'll move to the next, Maya. 3 MS. MORSI: Up next is Kelly Trevino with City of Fresno Economic Development Department. 4 5 MS. TREVINO: Good morning. Can you hear me? 6 CHAIR THOMAS: Yeah. Go right ahead, please. 7 MS. TREVINO: Lance and I work together. He had to jump off, so I'm filling in for him, so we're 8 9 good. Good morning. My name is Kelly Trevino and 10 I'm representing the City of Fresno's Economic 11 12 Development Department. 13 Autonomous technology is no longer the stuff 14 of future tech, but is present in many facets of our 15 everyday life. The California Central Valley and California as a whole has a long tradition of being not 16 17 just a local or national leader in agriculture but an 18 international trend-setter. 19 Autonomous agricultural technology is the way 20 of the future and helps fill several critical job gaps 21 to the benefit of agricultural production. The Central 22 Valley and California are very well positioned to foster 23 autonomous agricultural technology development and manufacturing. 24

And it is for these reasons that we are

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expressing our support for an update to Title 8 to allow 1 2 for the use of autonomous agricultural equipment in 3 California. 4 Thank you. 5 CHAIR THOMAS: Thank you. 6 Who do we have next, Maya? 7 MS. MORSI: This may be a panel comment, but up next is Trent Johnson with Raven Applied Technology. 8 9 MS. SHUPE: (Unintelligible). CHAIR THOMAS: Yeah, go ahead. 10 MS. MORSI: I'm not sure, but he may have a 11 12 public comment as well. 13 MS. SHUPE: Just so our commenters --14 MR. JOHNSON: Hello. Can you hear me? 15 MS. SHUPE: -- are aware, just -- this is Christina Shupe. 16 17 Just so our commenters are aware, there will 18 be a public comment period opportunity after the panel 19 discussion on autonomous ag. 20 MR. JOHNSON: I'd like to defer 'til after the 21 panel, if that's okay. 22 CHAIR THOMAS: Sure. 23 Can we go to the next, Maya? 24 MS. MORSI: Up next is Robert Moutrie with 25 California Chamber of Commerce.

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CHAIR THOMAS: Robert, can you hear us?
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              MR. MOUTRIE: Good morning, Chair Thomas.
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                                                          I
3
    can. Can you hear me all right?
              CHAIR THOMAS: Yeah. Go right ahead. A
 4
5
    little loud, but we can hear you.
 6
              MR. MOUTRIE: That's what my friends say, too.
 7
              So I want to touch on a number of pieces, as
    we have a lot of balls in the air.
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9
              I want to associate myself with the comments
    of Bruce Wick (unintelligible) the lead reg and Helen Cleary's
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               I think she correctly flags the issue with
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    comments.
12
    greatly expanding the workplaces covered without -- and
13
    lowering the thresholds -- without considering that
14
    those smaller workplaces or those different workplaces
15
    may have different compliance issues.
16
              I will just -- without getting too detailed, I
17
    will say my personal example on -- I think we need -- we
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    need more time than the 45-day comment period and some
    time to discuss this, because the differences in
19
20
    language between 2016 and 2023, I will say personally
21
    I've spent ten hours trying to go through and make sure
22
    I caught every difference and connected all the dots and
23
    how those changes were. And I'm an attorney.
              And when we're talking -- as Steve Johnson
24
25
    said, when we're talking about something that's clear
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and understandable for people doing this, this language is not it. And the idea that we've having a big change or a lot of changes to this language and then moving on quickly is really problematic, not just at a lead reg level, but at a policy level of how we move forward. I mean, we need to have clarity, at least a clear red line saying, "Hey, here's what changed from 2016 to 2023," so we can sort that.

So that's a huge concern for us, and I would definitely say we need more time to get through those things to make sure we can address the real substance and not just get caught up in what has been changed.

I won't reiterate Helen's points, spoken really well, about the issues there are, particularly for employers who have mobile work sites and whose exposure is very brief. I don't think the testing provisions make sense and are actually workable with present testing. I don't think that's the intent, but I just don't think that's been considered, because we need to have a talk about it.

I will echo the disappointment of Dave Smith about the first-aid kit regulation. And, Dave, I always appreciate your consistency here.

The -- I want to touch on autonomous tractors.

I want to applaud the Board for having a discussion in

person and trying to work through those issues. I think

it's really good to see the Board weigh in on a

complicated issue like this and really take a close look

at technology. I do think that technology has moved

forward, and I couldn't make it any better than what Adam

said at the beginning, so I won't add.

I do want to touch on an issue, on the shoplifting issue, because this is one that's been raised statewide and is very important and I -- you know, is very complicated and has facets outside of the Board. So I want to touch on it.

I cannot speak clearly enough to say that the statewide increase in retail thefts and the related risks is terrible. The business community in Sacramento on the legislative side are working hard to try to get that fixed. We have been trying to get criminal law adjustments, because the problem really comes from three places.

First, Prop 47, as many of you know, greatly lowered the criminal penalties around theft and caused a noticeable, dramatic increase in thefts across the state, because criminals just knew "We're not going to get punished for this, so we're going to go in and do it." And that put everyone at risk. I mean, that's not good for us; that's not good for employees. That's

what -- we've been trying to get that fixed and address it legislatively. Notably, I don't believe we've had any help on the union side with getting that fixed, which is something we'd love to have.

As the suggestion, I think one of the speakers said, of tackling thieves -- and I certainly have the same question, Can we tackle thieves? What can we do? I looked into this, and the problem is you create liability for yourself as a store if you physically touch thieves. So you get in this impossible scenario where the criminal penalties are incredibly low. You can't physically stop them, because then you get sued for something else. And so what do you do? Well, that's the troubling situation we're in there.

And I appreciate the comment and actually am quite glad to hear about the rapid police response to the shooting story, because that's terrible. I'm glad the police were there rapidly. But I think the first speaker spoke well when they said that -- I'm sorry I don't recall your name -- the police response often is quite delayed to shoplifting issues. Certainly, that's something that we wish was faster and wish they were there more for. That's a resources problem and I think a criminal punishment problem.

I have colleagues who are -- friends who are

police and DA's and they'll say, "When criminal penalties are lowered, we don't prioritize that the same way, because we prioritize the ones with the high penalties, murders, you know, those kinds of things."

So those criminal law problems that have come out of Prop 47 and have been legislative problems, we couldn't agree more. I mean, we really want to get them addressed and, I mean, I speak for the whole business community. Those are tragic.

They are, at their core though, criminal problems that employers can only do so much to work on. We are working in this -- in the regulatory process here and I'm glad to work on the workplace violence reg and have that discussion and work on that law and how to make that something we can do. But I just want to make clear that at the core this is profoundly a criminal law problem that was created by other legal changes that made it too easy and too low-penalty to do these things. And now we are kind of dealing with the echoes of that. And though we can deal with what we can deal with, I just want to make clear we can't deal with all of it. Retailers and businesses cannot be police and so there's limitations there.

So that's all I want to touch on that. I appreciate it, and I truly am saddened, and I wish that

those criminal enterprises weren't happening, because 1 2 it's certainly not something we want. 3 Thank you. CHAIR THOMAS: Thank you. 4 5 So now we're going to continue with in-person 6 speakers, so go right ahead. 7 MS. MORSI: Up next is Matt with TFE. 8 CHAIR THOMAS: Sorry, Maya. Hold that one, 9 because we're going to in-person. 10 MS. MORSI: Oh. Sorry about that. CHAIR THOMAS: That's all right. 11 12 Please go ahead. 13 MS. DELEON: Hello, everyone. I want to thank 14 the Board, staff, and interpretation for your hard work 15 and for receiving our comments today. 16 My name is Renee Guerrero Deleon. 17 organizer with the Southern California Coalition for Occupational Safety and Health, otherwise known as 18 19 SoCalCOSH. And our organization is founded on the 20 principle that workplace deaths and injuries are 21 preventable. 22 I want to start off my public comment today by 23 emphasizing the need for a general industry heat 24 standard. With the rising temperatures each year, it is imperative that we have a heat standard as soon as 25

possible. Each coming year there seems to be a new record of rising heat, yet there lacks updated standards to meet the growing hazards.

Secondly, I want to thank all the workers who have testified here today to the importance of why we need to address workplace violence. We at SoCalCOSH urge the standards board to treat workplace violence as a health and safety issue and pass a general industry standard, because every worker deserves a workplace where they feel safe and free from violence in all forms.

And, lastly, I want to speak out against the unregulated use of autonomous tractors and equipment that poses a harm to farmworkers across the state.

Agricultural work has a track record of failing to protect workers when it comes to maintaining safe and operable equipment.

Working conditions should not have to be experimental. There is a real risk that these vehicles pose by failing to account for workplace environments that go far beyond sensors and cameras, and I would like to ask those here today if they would feel comfortable working in those conditions as well.

Thank you once again to the Board, staff, and Division for your time and consideration. And we know

that you will make the best decision for workers and to protect working-class families. Thank you.

CHAIR THOMAS: Thank you.

MR. SMITH: Good morning. My name is Derek Smith. I am the political director of the United Food and Commercial Workers, Local 324, which covers Orange County and the southern part of L.A. County. We represent grocery, drug retail workers. We also represent 2,000 workers at Disney, all retail workers.

We've relied on Cal/OSHA to regulate and ensure health and safety standard for our retail workers. And this morning I want to speak to you about the increased prevalence of workplace violence in the retail industry and the critical need to establish clear standards in this area.

Recently, we had an informal poll of our stewards, about 300 of them, and about 75 percent had personally experienced some form of workplace violence — maybe verbal abuse, physical abuse, including assault or being spit on. The specific examples have been explained to you more eloquently than I could here today.

This customer behavior has been exacerbated by the stress of the pandemic, but I think it would be a mistake to think that it is exclusive to the experience

of the pandemic. It is going to continue.

Often, these are low-key events in the operation of a grocery store. Workers are told to get back to work. There's no tracking. There's no training on how to resolve an issue like this more effectively and there's no consequences for the offending instigator.

Due to state legislation, we can tell you with a high degree of accuracy how many COVID cases occur in any kind of grocery store. We know where they are, when they are, and we know where the clusters are. This allows us to be effective advocates for our members in this area. No such tracking exists in the case of workplace violence.

The when, the where, the manner that they're happening, the increased frequency that they're happening, in what form the violence is taking, no protocols exist about the best ways to abate violence.

No training exists to inform workers about protocols, how to defuse situations, how to best employ security that exists. And in the case, the very dramatic case, of active shooters, which we also know is on the rise, there's no training on how to protect themselves in that very dramatic incidence. And we urge Cal/OSHA to create clear standards to protect our members and we need

established accountability to ensure that these -- the employers are taking it seriously.

With due respect to the speaker from the Chamber of Commerce, this is not a criminal-justice issue. This is not even just a shoplifting issue. I told you that 75 percent of our members, based upon an informal survey of stewards, but that isn't appropriate either. I don't think the retail establishments could tell you with any further degree of accuracy how these incidents are. This has got to change. I hope at their next stewards' conference that we have that we actually can get those numbers so that we can really do the job and you all can do the job that you're meant to do.

So thank you very much.

CHAIR THOMAS: Thank you.

Before we have our next speaker, how many other people in the room intend to speak? See hands?

Okay. All right. So we're going to do you two and then we'll go to the phone lines.

Maya, how many do we have on the phones?

MS. MORSI: We have one, two, three -- four.

CHAIR THOMAS: Okay.

MS. MORSI: Sorry. Five.

CHAIR THOMAS: Okay. So we'll -- we'll do

these last two and then we'll go to the phones. 1 2 Go ahead. Thank you. 3 MR. NAPIER: Good morning. This is Dan Napier. I'm a certified industrial hygienist and my 4 interest is in the current revisions to the lead 5 6 standard. And I would ask the Board -- I will be making 7 comments and written comments, but I would agree with 8 all the previous speakers. We need more time on some of 9 this. Some of the issues are -- are highly technical. 10 People seem to forget, but lead is ubiquitous. 11 12 It's around us. It is in the soil. EPA did a study several years ago. California soils have between 13 14 4 and 200 micrograms per -- or parts per million of lead 15 in the soil, 4 to 200. Notice, there's no zero. 16 And the current lead standard is perilously 17 close to what we would call background, and there's 18 also not any language in the current standard that says,

You can look at, for example, a modern office building. There's very small amounts of lead in the wall there. Does that mean that every construction site, every job, has to have all of this lead standard built into it? There's no bottom-line number. We need to have that in the standard. We need to be able to

When do we stop? When is there no lead?

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say, "All right, this is background or this is normal." 1 2 And the other thing that we need more time on 3 is, I think, some of the toxicology needs to be looked at more carefully. And the studies that are in use and 4 5 some of the levels are extremely low. A NIOSH study --6 average blood lead is real close to one. And we're talking about -- that's just everybody. That's 7 everybody in this room, everybody in the world. 8 9 Well, is it appropriate then to have a standard of two? It's perilously close to what's in the 10 11 environment. 12 Dan Napier. Thank you very much. 13 CHAIR THOMAS: Thank you. 14 MR. JERGENS: My name is Jeff Jergens. 15 represent the Association of Equipment Manufacturers. 16 Chairman Thomas, thank you for allowing me to 17 speak today. We appreciate the opportunity. 18 And we are in agreement with several of the 19 comments mentioned earlier today. We want to make sure 20 that there are appropriate safeguards and benchmarks put 21 in place when we introduce autonomous regulation -- or 22 autonomous equipment into the field. And we feel 23 that the best way to do that is to establish an advisory

committee so that we can then discuss the appropriate

safety regulations for that equipment.

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As this discussion has begun half a decade ago and everybody might not be up to speed, I thought it would be good to mention some of the comments that were made through the previous petitions.

There were at least eight mentions through the first two petitions that implied there's difficulty applying the current regulation to autonomous equipment. For example, it is unclear how Subsection 3441 and other regulations would apply to a remote operator. The technologies mentioned in the existing regulation addressed traditional tractors, where an operator sits at the seat on top of the tractor to address the machine controls. And employers would experience difficulty trying to comply with the mismatched regulations.

So in answer to that, staff has also recommended that we establish an advisory committee among stakeholders to include petitioners to identify the issues and address those issues and convene an advisory committee to amend that regulation.

So we understand maybe at the time it wasn't the appropriate action to take, is establish a committee, but we definitely feel that that is the appropriate action to take now, to establish a committee.

Also, to just kind of recap a little bit, autonomous equipment began working approximately 2007.

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However, Title 8 was last modified 46 years ago. perspective, 46 years is the same timeframe from the first Model T to the first Univac computer. And, according to encyclopedia.com, those computers inspired anxiety in many who viewed computers as bewildering, frightening machines that had the potential to run amuk. I think we've heard some similar comments now. As witnessed by this body, many of these folks a few years -- or a few weeks ago -- at the Con Ag Expo

As witnessed by this body, many of these folks a few years -- or a few weeks ago -- at the Con Ag Expo -- and we thank you so much for your willingness to proactively see what's out there in the field. You can see that Cal/OSHA can no longer disregard this equipment and is necessary to make revisions to the regulatory framework that recognizes this equipment can operate safely.

Five years ago there wasn't a whole lot of data available as far as this equipment is, but today there is a dearth of it. For example, there are a minimum of 47 manufacturers producing autonomous equipment currently. Of those 47 manufacturers, 31 models do not have an operator station. So we can no longer say having an operator along with autonomous is applicable. Eighteen of those machines are electric, which align very much with California's push towards sustainability. Five of those machines are solar, which

also alleviate the strain on the grid. Eight of those machines mechanically remove weeds, which align with DPR's roadmap of eliminating chemicals. And nine of those manufacturers are California based, employing California workers.

So of those machines that are willing to share their data, there are over 500 machines currently working in the fields covering over one million acres of farmland, working in over 40 countries around the world, accumulating over 350,000 safe-use hours. Or, if you break that down into 2,000 hours a year that equipment typically works, that's 175 years of safe use, or that also equates to 58 three-year variances in data acquisitions. So we can no longer say that we don't have the data to support the safe use of the equipment either.

Coming up in this meeting, there's going to be a panel going forward represented by stakeholders, and we applaud the Board again for putting that together and taking those proactive steps. Of those five groups of stakeholders, staff and academia have advised establishing an advisory committee, the growers and manufacturers are requesting establishing an advisory committee, and labor has commented that they haven't been properly engaged, and an advisory committee is

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    also the perfect place to do that.
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              So, in conclusion, I just want to say we thank
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    you for this opportunity and we strongly emphasize that
    this Board convene an advisory committee so we can begin
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5
    work on this. It began five years ago, and it's probably
 6
    seven years out before we get a regulation put in place.
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    We're talking about 12 years since we've started this
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    process. So we definitely believe the time is now, and I
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    thank you for your time.
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              CHAIR THOMAS: Thank you.
              So I just want to make sure. We have no more
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12
    in-house speakers in person? All right. I don't see
    any others.
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14
              So, Maya, who do we have on the line?
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              MS. MORSI: Up next is Matt with TFE.
              CHAIR THOMAS: Matt, can you hear us? Hello,
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17
    Matt? So I guess Matt's not there.
18
              Go to the next, please, Maya.
19
              MS. MORSI: Up next is Chris Zeitz with Fresno
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    County Economic Development Corporation.
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              CHAIR THOMAS: Chris, can you hear us?
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              MR. ZEITZ: Yes, I can. Can you hear me?
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              CHAIR THOMAS: Yes, we can. Go right ahead.
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              MR. ZEITZ: So I had actually -- I thought I'd
25
    submitted to speak after the panel on ag vehicles.
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would I be able to wait 'til then?
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              CHAIR THOMAS: Yeah, you would.
 2
 3
              MR. ZEITZ: Okay. Great. I am done for now
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    then.
           Thank you.
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              CHAIR THOMAS: All right. Thank you.
 6
              Who do we have next, Maya?
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              MS. MORSI: Up next is Travis West with
    California Nurses Association.
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              CHAIR THOMAS: Travis, can you hear us?
              MR. WEST: I can, yeah. Can you hear me?
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              CHAIR THOMAS: Yeah. Go right ahead, Travis.
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              MR. WEST: Wonderful.
              Good morning, everyone, and thanks to Board,
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    staff, and everyone else here for the opportunity to
14
                                      I'm a regulatory
15
    comment. My name's Travis West.
    policy specialist here with California Nurses
16
17
    Association.
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              I wanted to state that CNA aligns itself with
    the comments of the UFCW, its members, SoCalCOSH, and
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20
    others on the workplace violence prevention standard for
21
    general industry. We've heard some pretty harrowing
22
    stories this morning that make the need for a general
23
    industry standard pretty clear, and we feel strongly that
24
    this is a workplace safety issue and not just a
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    criminal-justice issue.
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We, therefore, believe that the -- the workplace 1 2 violence general industry standard should be just as 3 comprehensive and protective as the standard for the healthcare setting. You know, of course, all workers 4 5 deserve strong protections from violence on the job, 6 you know, and by way of example, this -- you know, the workplace violence prevention standard should be in 7 effect at all times and it must be tailored to the 8 specific hazards of each workplace so that it's, you 9 know, location specific. 10 Workers and their representatives should also 11 12 be actively involved in all parts of the development, 13 the implementation, and the annual review of the 14 workplace violence prevention plan, including hazard 15 assessment, because they're the ones that are most --16 most situated to determine what are the hazards that are 17 most relevant, you know, on the day-to-day basis. 18 Workplace violence general industry standards should use the healthcare standard as a model for 19 20 effective ongoing protection and prevention of workplace 21 violence across industries. 22 Thank you so much for the opportunity to 23 comment. 24 CHAIR THOMAS: Thank you. 25 Who do we have next, Maya?

MS. MORSI: Up next is Scott with Fresno Chamber of Commerce.

CHAIR THOMAS: Scott.

MR. MILLER: Hi. Thank you for -- thank you for the opportunity to make a couple of comments.

I just wanted to speak very briefly on the update of Title 8, hopefully, and to mention how crucial autonomous agriculture is to our region. Such a huge percentage of the world's food comes from a hundred miles from where I'm -- within a hundred miles of where I'm sitting right now, and we simply don't have enough tractor operators to meet the demand right now.

And, furthermore, we believe that the -- that ag technology and autonomous ag tech will greatly increase worker safety by simply removing them from the areas where the -- where the work is occurring. The work being done by machines will remove people from the noise, dust, chemical spray, heat stroke, et cetera.

And upholding Title 8 to create some common sense standards for what is not just coming -- it's here, globally, and it's in use everywhere -- not everywhere, but it's in use in so many places and has such a great track record. We really encourage you to look at updating this standard, and to do it for all the right reasons, not just for worker safety, but to -- to

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improve the economy of the center of California that
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    absolutely needs it.
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              So thank you very much. And most of the
    speakers who've spoken on this topic are so much more
 4
    articulate than I am, but it is -- it is so crucial to
5
 6
    the economy of the Central Valley.
 7
              Thank you very much.
8
              CHAIR THOMAS: Thank you.
 9
              Who do we have left, Maya?
              MS. MORSI: Up next is Hector Saldivar with
10
    UFCW Work Forward.
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12
              CHAIR THOMAS: Hector, can you hear us?
13
              MR. SALDIVAR: Yes, I can hear you. Can you
    hear me?
14
15
              CHAIR THOMAS: Yeah, go right ahead.
              MR. SALDIVAR: Hello. Good morning, everyone.
16
17
    My name's Hector Saldivar. I'm with United Food and
18
    Commercial Workers Work Forward. We're the workforce
19
    development arm of the UFCW. I am a workforce
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    coordinator. And one of the goals -- or a main goal of our
21
    organization is to provide training and development of
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    our current members as well as future members,
23
    specifically the retail industries, healthcare, to
    develop their skills and in order to create -- in order
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25
    to have better jobs and increase their benefits, their
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wages, and standards.

And one of the key aspects of a good job is being safe, feeling safe and being safe at the workplace. So we -- I'm speaking in support of passing swiftly the general industry workplace violence standard. We believe that this standard and the accompanying training that would come along with it will help our workers feel safer at work.

As you've heard from many workers in the retail industry earlier this morning, the stories, really just terrible stories of what's happened with workers who are threatened as well as unfortunate deaths that happen at the workplace, we believe that the standard is imperative and it's needed as soon as possible to support workers when they're at work.

From my personal perspective, where I used to be a retail worker when I was in college and I witnessed multiple shoplifting as well as armed robberies -- and I remember one of the shoplifting that happened; I think the store manager was there. And at the end, one of the retailers ran after the shoplifter. And when they returned -- I think it was for, like, a six-pack of beer, something very small, and the store manager, all he said was, "Next time, just let them go." Right? That was the extent of the training.

I remember I was there when the armed robbery happened, and I remember it took a while for the police to show up. And afterwards, there was no training, no debrief, nothing that happened, like I said, "Hey, if this happens again, here's what we need to do." And there was multiple other robberies with knives, and not once do I recall their having any kind of training to prevent this or what to do.

And this is not just a safety issue for the workers, but also for the general public, as there's multiple customers all the times, right, when these different robberies and shoplifting occur.

So, again, I'm urging the Board to pass a general industry workplace guidance standard as soon as possible with strong components on training and specifically giving, at a minimum, yearly trainings, not one training when you're hired and then -- and then whatever happens down the line, if something were to happen.

So really emphasizing how crucial it is. It's part of a good job to have the standard and to have regular trainings that are worker-informed, worker-based, because the workers that experience these -- these incidents at work are the ones that have a lot of times some of the best solutions for it.

1	Thank you for your time.
2	CHAIR THOMAS: Thank you.
3	Who do we have left, Maya?
4	MS. MORSI: We have two more. The next one is
5	Mitch Steiger with California Labor Federation.
6	CHAIR THOMAS: Mitch, can you hear us?
7	MR. STEIGER: Yes. Thank you, Chair Thomas,
8	other Board Members, and staff. I appreciate the
9	opportunity to speak today.
10	We'll just speak very quickly on lead and
11	workplace violence.
12	Regarding lead, we would echo the comments of
13	Worksafe and urge the Board to adopt the standard the
14	update, when it's before you.
15	One of the first things that I did when I came
16	to work at the Labor Federation in 2010 was attend a
17	training on the need to update the lead standard and
18	learned a lot about it. I learned a lot of very scary
19	things of the effect that lead can have on the body, but
20	also learned that this is a hazard we've known about for
21	thousands of years. The Romans knew how harmful lead
22	was. And we've been working for a very long time to
23	update this standard.
24	Yes, it's thorough. Yes, there will need to
25	be some work to make sure that employers understand all

of its provisions and all the different ways that it can reach out and help workers. But that is not a reason to delay it. We absolutely need to take action. What we have right now isn't enough and we urge the Board to adopt that when it eventually does come before you.

Regarding workplace violence, the stories from the workers that you've heard today really tell you everything that you need to know about how serious this hazards is, and it's getting much worse very fast. And anyone who shops in a business that can't lock its doors has probably seen it. You don't even need to work in the industry to know how bad this problem has gotten.

And it would seem that our regulatory infrastructure — the infrastructure we have in place to protect workers from this hazard reflects a bygone era when we really didn't have to worry about this all that much. And I don't think anyone can deny how serious it's gotten. We may disagree a little bit on what the fundamental causes of it are, but the reality is that it's out there and workers are getting shot at, they're getting shot, they're getting stabbed, they're getting attacked, they're getting sprayed with items that are stolen from the shelves. It's getting so out of hand so fast, that we need to do something. And we need to do something more, frankly, than what's in the discussion

draft that's out there right now. 1 2 This data that we adopt needs to look more 3 like the healthcare standard. It needs to go much farther, and it needs to provide much greater clarity for 4 5 both employers and workers on what we can do to better 6 prevent this from hurting workers, because it is just 7 everywhere; it is part of work now. And we need to do whatever we have to to make sure that we minimize its 8 9 role in some of these public-facing jobs right now. And those are our comments. And we have a lot 10 to say about autonomous tractors, but we'll respect the 11 12 process and make those later, at the appropriate time. 13 Thank you. CHAIR THOMAS: Thank you, Mitch. 14 15 Who do we have next? This is the last one, 16 Maya? 17 MS. MORSI: Yes. And then I can go back to the ones that didn't get called -- that didn't pick up 18 19 last time, if you'd like. 20 CHAIR THOMAS: All right, we'll do that. 21 MS. MORSI: So up next is Christopher Lee with 22 United Contractors. 23 CHAIR THOMAS: All right. Go ahead, caller. 24 MR. LEE: Good morning --25 CHAIR THOMAS: Good morning.

1	MR. LEE: Chair Thomas, Board Members, and
2	staff. I represent United Contractors, Wall and Ceiling
3	Alliance, Northern California Allied Trades, and the
4	Painting and Decorating Contractors of California. I
5	would note that all the members of those associations
6	are union signatories.
7	With regard to the proposed revisions of the
8	lead standard, we support the comments and concerns
9	expressed by Bruce Wick, Steve Johnson, Helen Cleary,
10	and Rob Moutrie. I won't go over the details, since
11	they've already provided that information.
12	But, in particular, we respectfully request an
13	extension of the comment period, the convening of an
14	advisory committee meeting, and the need to clarify
15	language. We look forward to submitting formal written
16	comments and in participating in the April 20 Board
17	Meeting.
18	Thank you very much for your time.
19	CHAIR THOMAS: Thank you.
20	Who do we have next, Maya?
21	MS. MORSI: So I was circling back to Mike
22	with Vino Farms, LLC.
23	CHAIR THOMAS: Mike, can you hear us?
24	Michael, going once. Going twice. gone.
25	All right. Next?

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              MS. MORSI: Next again is Amber Fowler with
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2
    Agtonomy -- Agtonomy.
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              CHAIR THOMAS: Amber, can you hear us? Amber?
 4
    Gone.
5
              Next.
 6
              MS. MORSI: Okay. Lance Lippincott with City
7
    of Fresno.
8
              CHAIR THOMAS: Lance, can you hear us?
9
              MS. SHUPE: (Unintelligible).
              CHAIR THOMAS: Oh, that's right. Okay. So
10
    we're going to skip Lance.
11
12
              Is there anybody else?
13
              MS. MORSI: And last one is Matt with TFE.
14
              CHAIR THOMAS: Matt, can you hear us? Yeah, I
15
    don't think so.
              Anybody else? That it?
16
17
              MS. MORSI: That is it.
              CHAIR THOMAS: Yay. We made it. All right.
18
    Not that we don't invite and like public comment; we
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20
    love it. I don't know -- yeah, it's the same thing with
21
    the -- every month as you get -- the first one, usually
22
    they never answer and then after that we kind of pick it
23
    up, but the -- you know, it's a crap shoot. You don't
24
    know.
25
              Anyway, so we thank you very much for your
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comments and the -- hold on just a second. I got to get
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2
    to my notes here. Yeah. Thank you. We appreciate your
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    comments, and we really do. It's insightful, and it helps
    us, and we appreciate it. The public meeting is adjourned
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    and the record is closed.
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             We will go to the business meeting. The purpose of
7
    the business meeting is to allow the Board to vote on
8
    matters before it, to receive briefings from staff
9
    regarding the issues listed on the business meeting
    agenda. Public comment is not -- is not accepted
10
    during the business meeting unless a Member of the
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    Board specifically requests public input.
13
              So proposed variances for adoption.
              Ms. Gonzalez, will you please brief the Board?
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              MS. GONZALEZ: Thank you, Chair Thomas, and
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    good morning, Board Members. For your possible adoption
17
    and approval today, we have Docket Nos. -- well, we have
    decisions, proposed decisions 1 through 42.
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              CHAIR THOMAS: All right, so decisions 1
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    through 42. Do I have a motion to adopt?
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              MS. LASZCZ-DAVIS:
                                 I so move.
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              CHAIR THOMAS: Do I have a second?
23
              MS. STOCK: Second.
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              CHAIR THOMAS: I have a motion and second.
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Are there any questions?

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              Hearing none, Sarah, can you please call the
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    roll? And can we get the Board Members back up on
3
    the screen?
              MS. MONEY: So I have Ms. Laszcz-Davis as the
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    motion. And who was the second? Kate, okay.
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              CHAIR THOMAS: Thank you.
              MS. MONEY: Okay. Here we go. Ms. Burgel.
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              MS. BURGEL: Aye.
 9
              MS. MONEY: Ms. Crawford.
              MS. CRAWFORD: Aye.
10
              MS. MONEY: Mr. Harrison.
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12
              MR. HARRISON: Aye.
13
              MS. MONEY: Ms. Kennedy.
14
              MS. KENNEDY: Aye.
15
              MS. MONEY: Ms. Laszcz-Davis.
16
              MS. LASZCZ-DAVIS: Aye.
17
              MS. MONEY: Ms. Stock.
18
              MS. STOCK: (Unintelligible).
19
              MS. MONEY: I'm sorry?
              MS. STOCK: Aye. Aye.
20
21
              MS. MONEY: Chairman Thomas.
22
              CHAIR THOMAS: Aye.
23
              Motion passes.
24
              And Division update. Mr. Berg, will you
25
    please brief the Board?
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MR. BERG: All right. Thank you very much,
Board Members.

The briefing on the rulemaking we're working on, so first is lead. Proposed rulemaking prevent lead poisoning in workers was noticed this past March 3rd, and the 45-day comment period runs through April 20th when there will be a public hearing at the next Standards Board meeting.

And then on the Standard Boards website,
there's all the details on how to submit public comments
and all the rulemaking documents, and I'll speak more about
this at the next meeting during the public hearing.

Indoor heat is the next one. The proposed rulemaking to prevent indoor heat illness will be noticed on March 31st. The 45-day comment period will run through May 18th, and, again, there will be another public hearing at that May Standards Board meeting. And I'll speak more about that during that -- that meeting.

Preventing silicosis from engineered-stone fabrication. Cal/OSHA is meeting frequently -- frequently and regularly with CDPH to discuss some necessary regulatory changes to control the silicosis outbreak.

Aerosol-transmissible diseases, Section 5199.

There's rulemaking to add COVID-19 to the list of airborne infectious diseases and also include COVID as one of the vaccines that is offered to workers. So that is completed and under internal review.

Next is trichloroethylene permissible exposure limit update to Title 8, Section 5155. That's been sent to Board staff for their review.

For first aid, Cal/OSHA will work with the Standards Board staff to restart the rulemaking.

Workplace violence. We're working to update the draft text to be posted online and then schedule another advisory meeting. So that will be coming up.

And I appreciate all the comments today. I used to work at a 7-Eleven and had personal experience with workplace violence and it was very traumatic to me, too. And I had no training and there was no security guard. So I sympathize greatly with the people talking today.

Next is the COVID-19 non-emergency regulation.

CDPH changed a couple things in their orders, which

automatically changed the regulation. So on March 13th,

we updated our FAQs on our website. That kind of

explained those. So please see those FAQs for details.

And that's -- that's my update. Thank you.

CHAIR THOMAS: Thanks.

Are there any questions for Mr. Berg from the Board? Chris?

MS. LASZCZ-DAVIS: Yeah. I've just got a -- I don't know whether a questions or comments, but bear with me here.

You know, as I listened to the comments this morning, you know, we've really dedicated our comments so far to heat illness, workplace violence, and lead.

And I know we'll be dealing with the autonomous equipment issue here shortly.

But the one thing that strikes me is that while the regulatory standard is absolutely critical, I mean, I think the thing that really pushes this is education, good education. It's got to be understandable. It's got to be distributed properly and widely. But there also needs to be an advisory committee process that enables Division staff to create a regulation that is understandable in the public domain.

And I don't know if it's my ignorance on this part, I don't know whether or not we have good, robust advisory committee processes for indoor heat illness, workplace violence, and lead at this point in time. But it seems to me that, if we don't, we must have those.

And, I mean, the only way those get to be more palatable and understandable in the public domain, in the

workplace sector, is if enough people can engage and 1 2 clarify things so that when the final product is out for 3 distribution, it's understandable, enforceable, and executable. So the education piece worries me. And I know 4 5 we made those comments during COVID as well. That's --6 that's a huge one. The other comment that I heard -- and I don't 7 8 know to what extent this can be applied, but I think 9 it's an important one. Generic standards are good. They're good starters. But, given the different 10 workplace sectors and work environments, you really got 11 12 to begin to customize them. So, if we're dealing with a 13 standard with impact, I'm assuming we understand enough 14 about the impact in different workplaces that we can

I think that's all I have at this point. But my real question -- I guess the parting question for my comments: Do we have advisory committee processes set up for heat illness, workplace violence, and lead at this point in time?

focus on those with the highest risk, if you will, and

begin to customize some of those.

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MR. BERG: Yeah. We had several advisory committees for lead, indoor heat illness, workplace violence. We're scheduling more for workplace violence.

MS. LASZCZ-DAVIS: And I know what I heard

pretty frequently was that, given the complexity of some 1 2 of the upgrades in the standards, that we needed a longer comment period. I mean, given our process on the 3 Standards Board, is there an opportunity for a longer 4 comment period for the public and workplace? 5 6 MR. BERG: Yeah. I have to bring that up with 7 the Chief and Director. 8 MS. LASZCZ-DAVIS: I'd like you to consider 9 that. 10 MR. BERG: Okay. MS. LASZCZ-DAVIS: I think it's pretty 11 12 important. If we're, in fact, going to anchor the regulatory system with good, solid regulations that are 13 14 understandable and enforceable and executable, seems to 15 me we need a broad -- a longer comment period other 16 than 45 days. 17 MR. BERG: Okay. I'll bring that up with them 18 and --19 MS. LASZCZ-DAVIS: Thank you. 20 MR. BERG: -- discuss it. 21 CHAIR THOMAS: Thank you, Chris. 22 Any other questions for Mr. Berg from the 23 Board? 24 MS. STOCK: This is -- this is Laura. I can't 25 tell whether anybody on the -- there was also wanting to

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I just wanted to note that I have a few
1
    speak.
2
    questions and comments.
3
              CHAIR THOMAS: It's never stopped --
              MS. STOCK: So it's okay.
 4
 5
              CHAIR THOMAS: -- you before, so go right
 6
    ahead.
 7
              MS. STOCK: Okay. I didn't want to --
8
              See, if somebody else was preparing, I just --
9
    too small on the screen to see if that's the case.
10
    So -- so, yeah, I want to make a couple of comments.
              And, first, I wanted to say I, of course,
11
12
    completely agree with the comments by Bruce Wick that
13
    education and outreach is critical and that any time we
14
    pass a new regulation, particularly one as complicated
15
    as lead, you know, I support the idea that the more we
16
    can get the Division and other -- other groups aboard,
17
    when appropriate, to be in place with clear instructions
18
    and training and fact sheets. It's really, really
19
    important. So I -- I wanted to just add my voice to
20
    that, as he had asked.
21
              I think we also agree that education is
22
    necessary but not sufficient. We need enforceable, real
23
    regulations.
24
              And I feel like, you know, a common theme of
25
    what I heard from both workers who testified as well as
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employers is just the concern about the delays and how long this process takes. And just hearing that heat has been in the works for over six years, lead for multiple decades, you know, first-aid was supposed to be on the agenda and then it was not on the agenda and now we hear Eric saying that process needs to be restarted.

So I -- I just share the frustration of the public that the process is so -- it takes so long.

And I wanted to just -- I have a couple of comments. But before I get there, I just wanted to ask Eric -- and sorry that these questions always have to go to you because you're the person here representing the Division, but can you actually provide a little bit more context about why there are -- what is the issue with these delays and what is needed to accelerate some of our work? Is it a question of resources? Is it a question of priorities in terms of where people -- and how are those priorities set?

So, you know -- and, for example, we heard last month that the indoor heat regulation, we now know -- it's great to see that there's a date for the public hearing, but we know, as you described or as someone described last month, it's going to be a full year at least before we get a regulation that we're able to vote on. So we know we are going to completely miss

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this season of intense heat.
1
 2
              So I wanted to ask -- I have a few comments
3
    about workplace violence, but, first, could you provide
    your insight or what you think would be needed in order
 4
5
    to address some of these delays?
 6
              MR. BERG: Sure. I think there's a lack of
7
    understanding the amount of work that goes into a
8
    regulation. I mean, it's thousands of person-hours or
 9
    more for the economic analysis for all the supporting
10
    documentation. So I just -- and it's not seen by the
    public, but there's just an enormous amount of work that
11
12
    goes behind this.
13
              And we do have a small staff. So, I mean,
14
    we're all working more than full-time trying to get this
15
    done, you know; we're working weekends and working
    nights and doing the best we can, but the public just
16
17
    doesn't see how much work goes into these things.
18
              CHAIR THOMAS: Well, I have one --
19
              MS. STOCK: Yeah.
20
              CHAIR THOMAS: I have one question regarding
21
    that and then we'll go back to you, Laura.
22
              MS. STOCK: Sure.
23
              CHAIR THOMAS: Does it usually always get hung
24
    up on how much is this going to cost?
25
                         I mean, the economic analysis is
              MR. BERG:
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challenging. And we're in the process of hiring more
1
2
    people and getting more capacity to do this, so that's
3
    -- that should help for the future, but, you know, that
    takes time to get them up to speed and do all that work.
 4
5
    So we are working on solving that problem. But, yeah,
 6
    that's -- that's one of the big hurdles is the economic
7
    analysis.
              CHAIR THOMAS: Yeah. And I think -- I think
8
9
    we've all known that and it's -- when I first started --
    and I don't think it was really spitballing, but it was
10
    just like okay, it's going to be -- "We think it's going
11
12
    to be about this much." And there was -- it was more
13
    detailed than that. But now it's really down to where
14
    that is the longest part of getting any regulation
15
    passed is, "How much is it going to cost? Is it going to
    be over this amount?", you know, and then what?
16
17
              So I understand what we're going through.
18
    don't always appreciate it, because we know we need to
19
    get these regulations done, but that's just one of the
20
    main problems that we have getting any regulation passed,
21
    is what is the cost.
22
              Anyway, go ahead --
              MS. STOCK: I just had one response to that.
23
              CHAIR THOMAS:
24
                              Sure.
25
              MS. STOCK: A good example. I was looking at
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the outdoor heat regulation that was done over 15 years ago. Economic analysis was about one sentence, and for indoor heat it's well over a hundred pages. So you can see the change in the quantity of work for doing very similar work.

CHAIR THOMAS: Yeah. I mean, it's -- you're just doing what we ask you to do is to, you know, define everything, lay it all out. But then that causes other problems, too. So, Laura, you had another question?

And just on that economic analysis -- and thanks for bringing that up, Dave, because I think that is a big issue.

MS. STOCK: Yeah, yeah.

And I know that there have been proposals over the last year about how to accelerate that process, but I want to ensure that it gets started quickly. I know there's been some discussion -- and maybe this is still happening -- to try to hire in-house people to do that and whether or not that process, instead of taking a year, could take several months.

I think there's been, also, some discussion about how appropriate? When is it necessary? Obviously, in setting occupational safety and health standards, there's advisory committees and many other processes that help determine what the impact is going to be, and

maybe therefore a long additional economic analysis may not be needed. So I think that is definitely something to look at.

And, Eric, of course, you know, completely aware of the workload that -- that Board staff and Division staff are under. I know we've -- we've all often spoken that we would want to lend our support for the need for additional resources for both the Division and the Board to develop these regulations. So I recognize that.

And I can just understand from the stakeholder community that have been facing these urgent situations like workplace violence specifically and waiting year after year after year after year, you know, and whether these are the kind of situations that may lead people to feel like the way that people need to proceed is either by sort of legislative mandates or by emergency regulations, because something needs to be done.

I wanted to just mention -- I wanted to thank all the workers who came to testify in person and on the phone about your experiences. And I just want to emphasize that -- we can't over-emphasize how important your stories are.

When we hear what's going on actually in the workplace, it becomes absolutely impossible for anyone

not to see that this is an urgent situation it's an urgent occupational safety and health issue that employers must respond to.

And I agree that, while, you know, issues around criminal -- you know, there are criminal issues involved, as we heard from Rob Moutrie, this is also a workplace health and safety hazard. It's a responsibility of employers to put in place mechanisms to protect people in the job -- on the job, training, security, et cetera. So there are many, many urgent things that employers need to do and must do.

But, again, thank you so much, those of you who came to tell your stories. And I hope you'll continue to do that as we move forward, because your voices are really essential.

Thank you.

CHAIR THOMAS: Thank you, Laura.

Any other questions from Board Members?

MS. BURGEL: Dave, this is Barbara.

CHAIR THOMAS: Go ahead, Barbara.

MS. BURGEL: Okay. I want to just echo
Laura's concerns and I wanted to thank the retail
workers about their first-person accounts experience of
violence.

25 And I'm wondering, Eric, would it be effective

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to add more resources, obviously, at Cal/OSHA? But if
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2
    workers were to call in anonymous complaints and just
3
    starting to flood the phone lines at Cal/OSHA, reporting
    high-hazard conditions in retail, that are -- you know,
 4
 5
    of course, could be covered if employers were using the
 6
    general industry hazard to -- you know, it is the
    employer's responsibility to provide a safe and healthy
7
8
    workplace, and employers appear not to be doing that.
 9
              And so would anonymous complaints to the
10
    Cal/OSHA work site liberate more resources?
              MR. BERG: Oh, yeah. We always encourage
11
12
    workers to file a complaint if they feel unsafe in the
13
    workplace. We always encourage that, because we need to
    know about it before we can take action. So that's
14
15
    always encouraged, yeah.
16
              MS. BURGEL: And would there be inspections?
17
    You know, would -- would that engender an evaluation by
18
    Cal/OSHA to go in and do a special targeted assessment
    of that industry?
19
20
              MR. BERG:
                         I mean, I'd have to discuss that
21
    with Cal/OSHA enforcement branch.
22
              MS. BURGEL:
                           Thank you.
23
              CHAIR THOMAS: All right.
24
              Kate.
25
              MS. CRAWFORD: Hi, Eric. We heard multiple
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times a couple of requests on lead -- one for an
extended public comment period, so, No. 1; and you're
going to take that back to the Chief, but we also heard three
or four times for an additional advisory committee. What is
the possibility? It's a direct question. So what is -- what
is the possibility of an additional advisory committee on
lead regulations?

CHAIR THOMAS: Christina, you had a reply.

MS. SHUPE: Yeah. I'd like to step in for a moment, Eric, if you don't mind, because we're now in formal rulemaking. Advisory committees are conducted in pre-rulemaking. There's no time allowed for in the APA for advisory committees. And so what we risk, if the Board decides to move down that road, is losing the regulation.

And as far as extending the public comment period, I think that that's something the Board might consider when we're in April and we're actually at the end of the public comment period. We can discuss that with your counsel. That might be an option allowed under the APA. But, again, it's one of those things where, if you -- if you do this, you then disallow time for making amendments, which is already allowed for in the APA.

CHAIR THOMAS: Thank you.

Go ahead.

MS. CRAWFORD: So the vital piece then is extending the public comment period.

MS. SHUPE: So the APA allows for a 45-day public comment period. If there -- and we do that because we want public comment. We are giving them a final package. We're saying, "Please give us your feedback. If you have recommendations for changes, the Division will then consider them." And the Division needs time to respond to those comments and also implement changes.

So some of our recent rulemakings have had two and even three changes to the regulations. But we also see that every time that that happens, it puts a regulation at higher risk for going away. And that's what we're experiencing with first-aid.

And I understand the frustration of the Board and the public with first-aid not moving forward. But one of the contributing factors was that we had multiple 15-day notices. And when we got to the end of the time where the Board had to absolutely vote whether or not to approve, that package was not ready. And so I understand the public's desire for additional public comment, but this is why the APA allows that 45-day period.

thing, would be for the State to begin to issue alerts

25

and guidance, you know, to the public sector and workplaces, refreshing the memories as to what the protocols are for both lead and heat illness. So it isn't like we're without any guidelines or starting points for standards.

And, I guess, when it comes to workplace violence, I mean, that hits home for all of us, I mean, our kids, our grandchildren, the schools, I mean, retail stores. That's a tough one, because I think everybody is on edge with that situation. You go to an airport, catch a plane. It isn't like you don't have that issue even on a plane these days.

But the truth is, it surprised me to hear that there is no tracking of incidents at this point in time. And that's something that the consortium of retailers can establish so they have their own repository of tracking incidents. I mean, we've heard some pretty harrowing stories this morning and there are probably thousands of others like it, but is there anybody that's tracking all that so that the data does become aggregated — and — and visible for all of us? I mean, I don't know. I guess I'd have to ask the retailers then.

MR. BERG: I mean, the United States Bureau of
Labor Statistics does keep statistics on workplace
violence incidents and they -- they publish those. I

don't know how comprehensive it is or includes all 1 2 industries, because there's probably exceptions that 3 don't have to report. But they do keep statistics. I know -- I think it was NIOSH and Bureau of 4 5 Labor Statistics -- sorry -- did a recent report. I 6 think it's 2022, where they covered some of the stats on that, and they showed that there is, I think, 7 8 1.2 million workplace violence incidents per year in the 9 period they looked at in their studies. So we know it's 10 very common. It's happening every day. MS. LASZCZ-DAVIS: Is there an opportunity to 11 12 share some of that information? 13 MR. BERG: We post it on our website -- the 14 link. 15 MS. LASZCZ-DAVIS: Okay. 16 MR. BERG: And the advisory committee page for 17 workplace violence, we have that link to that study. 18 MS. LASZCZ-DAVIS: Okay. And the other 19 comment that workplace violence -- and, please, don't 20 misunderstand this. Yes, absolutely we need a standard 21 regulation, but, I mean, it's not an issue that's just 22 health and safety, although it's one pillar of the whole 23 issue that you got the legal system in play, you've got 24 communities that need to come together. So we -- we can enact and should enact a 25

- 1 regulation, you know, which is a great starting point.
- 2 But the truth is there are a lot of other, you know,
- 3 influencers within the world that we live in that can
- 4 help put a cap on some of that, I think.
- And do we have -- do we require -- do we
- 6 request that companion elements also work with Cal/OSHA,
- 7 like the legal system and communities and all? I'm not
- 8 sure how that all works. But standards alone won't fix
- 9 the problem, although they're an important pillar for
- 10 the whole issue.
- So, I mean, I don't know if you want to
- 12 comment or not, but I'm listening to all -- we're not
- going to fix the whole issue; that I can guarantee you.
- 14 So, I mean, what can we do to influence the other
- 15 elements that will help bridge the fix?
- MR. BERG: Well, the training is critical so
- 17 people know what to do when something happens. Like, in
- 18 my case, I had no idea what to do when violence broke
- 19 out in the store I worked at. I was very fearful and I
- 20 didn't know what to do. I was kind of in shock. So
- 21 training would have helped.
- 22 And then, also, implementing preventive
- 23 measures. There's several preventive measures that can
- 24 be instituted. And then tracking them so people know what's
- 25 happening where they work, you know. They know a

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So there's several things that could be done.
1
    history.
2
              In many jurisdictions you have workplace
3
    violence regulations. We did some research, I think.
    Most of them are in Canada, but we did see other
 4
5
    workplace violence prevention laws or regulations.
              MS. LASZCZ-DAVIS: But we don't -- we don't
 6
    take a stance with city councils or police forces or
7
    anybody like that in terms of what we have done and what
8
9
    is it that they can do in coming to the table to bridge
10
    that. I mean, we don't do those kind of --
              MR. BERG: We could definitely improve
11
12
    communication with, you know, law enforcement agencies.
13
    I mean, we have worked with them in the past. So.
              MS. LASZCZ-DAVIS: So more of a hand-in-glove
14
15
    working relationship sounds like it might be a start, or
    a bridge, at least one bridge.
16
              MR. BERG: Yes, for sure.
17
              MS. LASZCZ-DAVIS: Okay. Thank you, Eric.
18
19
              MR. BERG: Okay.
20
              CHAIR THOMAS: Any other questions?
21
              MS. STOCK: Dave, yeah. I have one more
22
    comment for Eric.
23
              And I just wanted to follow up, I think, on
24
    what Barbara was saying about, you know, what can be
25
    done in the interim. So, you know, we know that it's
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going to be a year before we have an indoor heat
regulation. We do have an outdoor heat, but not an
indoor one, and we know what's going to be -- we don't
know how long until we have the workplace violence.

So, Eric, could you comment about what -- you know, if -- if people -- so people who are facing those hazards now, they have the right to file a complaint with Cal/OSHA if their employer is not taking action, even in the absence of a specific regulation. So what would happen in those instances? I assume Cal/OSHA would go in and investigate and potentially cite under the injury and illness prevention program. Is that the case? If you could just comment on that.

MR. BERG: Yeah, that would be a case. We get a formal complaint about workplace violence. We would cite under the injury and illness prevention program, as you say, or possibly issue a special order. It depends on the circumstances.

We do have, like, a model IIPP on our website to address workplace violence, and we do have a web page how it's addressed, in addition to the IIPP.

So we do have information on that. And, yeah, that's how it would be addressed.

MS. STOCK: And people could actually be cited, you know, these are recognized workplace

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hazards. And if there's hazards that are found during
1
2
    an inspection they -- an employer could be cited for not
3
    taking steps to address either indoor heat or workplace
    violence; is that correct?
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 5
              MR. BERG: Yeah, that's correct.
 6
              MS. STOCK: And then just a last comment.
 7
              I know that Cal/OSHA often does these
8
    special-emphasis programs like, you know, heat sweeps in
9
    the summer and outdoor heat, et cetera. And I'm
    wondering if there's opportunities to identify as a
10
    special emphasis enforcement program to look at
11
12
    workplace violence and indoor heat in this period of
13
    time, particularly where we don't have the support of
14
    specific regulations.
15
              MR. BERG: Yeah. it's something that we should
16
    bring up with enforcement -- I'll bring up with the
17
    enforcement branch. I believe they're already working
18
    on indoor heat, but I'd have to check with them. And
19
    also about workplace violence.
20
              MS. STOCK: And I think workplace violence
21
    rises to the level of something that requires that
22
    urgency as well --
23
              MR. BERG: Yes.
24
              MS. STOCK: -- in general industry.
25
              Thank you.
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1
              CHAIR THOMAS: Thank you, Lara.
2
              Any other questions? All right, we'll
3
    continue with legislative --
              MS. SHUPE: We're going to lose our -- our
 4
5
    interpreters.
 6
              CHAIR THOMAS:
                             Oh.
 7
              MS. SHUPE: We need a 15-minute break.
8
              CHAIR THOMAS: Okay. Well, I'm -- let's
9
    finish this part so we can get this done.
10
              Autumn, can you just give us a brief --
              MS. GONZALEZ: Sure. Very briefly, I just
11
12
    wanted to draw your attention to SB 553. It's a
13
    workplace-violence proposed bill in the Senate. So the
14
    Legislature does have their eye on that issue. Good to
15
    know.
              And SB 686, domestic workers, this would
16
17
    amend, narrow the exception that currently exists
    in the program for domestic employees, domestic
18
    workers. And that's it.
19
20
              CHAIR THOMAS: Thank you.
21
              Any questions for Autumn? All right, Christina?
22
              MS. SHUPE: Thank you, Chair Thomas.
              We've talked a bit about vacancies and how the
23
24
    workload is outstripping our resources. This is well
25
            So hiring continues to be a top priority for us.
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Me've conducted interviews to fill our vacant Attorney III positions, legal analyst, and permanent senior safety engineers. I anticipate that we'll be able to introduce you to at least two new staff members next month. We have interviews for two limited-term SSE positions scheduled over the next two weeks and we'll be scheduling interviews for a legal secretary vacancy shortly.

We have a number of vacancies to fill, though, so we also expect postings for another Attorney III position as well as a newly vacant permanent SSE position.

Since our last meeting, your staff has conducted an advisory meeting. It was our third for walking working surfaces. We also have an advisory committee meeting for construction personnel, who I scheduled for March 22nd, and a third meeting of the 2020 firefighter PPE advisory committee will be held on April 4th. Excuse me.

The Board has received a petition for emergency rulemaking from the Western Occupational Environmental Medical Association. They're seeking emergency regulations to control the hazards of airborne silica dust in shops that fabricate engineered stone, also known as artificial stone. This petition will be

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posted on the Board's website probably next week as
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    Petition 597 and will be distributed for evaluation by
3
    both the Board and Division staff.
              And, finally, this is a bit delayed, but I'm
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 5
    pleased to welcome and reintroduce Amalia Neidhardt. As
 6
    you know, she is the Board's new principal safety
    engineer. In addition to her experience as a senior
7
8
    safety engineer with the Board, Ms. Neidhardt brings
9
    over 20 years of experience with Cal/OSHA. Please join me
    in welcoming her to the Board's management team.
10
              Thank you. Are there any questions?
11
12
              CHAIR THOMAS: Any questions for Christina?
13
              All right. Seeing that there are none, we're
14
    going to go to a 15-minute recess, after which we'll
15
    start the panel discussion. So it is 12:04. We'll be back.
    at 12:20 and so we'll see you then.
16
17
              MS. STOCK: Dave, can I just ask a procedural
18
    question?
19
              When we get back to the panel, should we be
20
    signing in with the new Zoom link, Christina?
21
              CHAIR THOMAS: I don't know.
22
              MS. SHUPE: Yes.
                                So audience participants can
23
    stay where they are, but, my Board Members, you'll need
    to go ahead and step off of WebEx and rejoin through
24
25
    Zoom.
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MS. NEIDHARDT: (Inaudible).
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2
              MS. SHUPE: If you have any questions, the
3
    Board Members can reach out to me directly.
              CHAIR THOMAS: So can you switch the thing
 4
 5
    back so we can see Dave Harrison, because I think he
 6
    thinks we can hear him.
              MR. HARRISON: No. Laura asked the same
 7
8
    question I was going to.
9
              CHAIR THOMAS: Okay. All right. So everybody
10
    got it? All right.
11
              Fifteen minutes. We'll see you then.
12
               (Break)
13
              CHAIR THOMAS: Thank you, John.
14
              We are back in session and we are going to
15
    proceed with our panel discussion. And this panel
16
    discussion will be on automated agricultural equipment.
    It will be moderated by Ms. Shupe. There will be a
17
18
    30-minute comment period following the panel discussion
19
    where the public can address questions about items
20
    discussed during this portion of the meeting.
21
              So, Ms. Shupe, would you like to introduce?
22
              MS. SHUPE: Thank you, Chair Thomas.
23
              So according to estimates compiled by the
    United Nations Food and Agriculture Organization, by 2050,
24
25
    we will need to produce 60 percent more food to feed a
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world population of 10 billion. Here in California where we produce over a third of the country's vegetables and 75 percent of United States fruits and nuts, this is an especially pressing issue.

Similar worldwide food-production gains were accomplished from 1960 to 2000, but collateral damage from farming methods included land degradation and deforestation, over-extraction of groundwater, emission of greenhouse gases, loss of biodiversity, and nitrate pollution of water bodies. We need technological innovations to move forward sustainably, but they can't come at the expense of the health of those who are among the most vulnerable to food scarcity, our agricultural workers.

The discussion today will focus on technological advances in autonomous farming methods and how innovative technologies can be introduced to California farms without extracting a cost in worker safety standards.

John, if you would pull up the slides, please?

Just one moment. I pulled together, very quickly,

some examples of the different equipment that we'll

be talking about today, because they range

significantly from very small golf cart-sized sprayers

and autonomous vehicles to equipment that is

significantly larger. They include equipment that has

- space for a driver, an emergency shutoff, but also in 1 2 Australia they're developing large machines that are not 3 designed to be operated by any human driver at all.
- MR. ROENSCH: Maya, please bring this 5 up on Zoom?

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- MS. SHUPE: Since it looks like we don't have those slides, we'll go ahead and move forward without them.
- So, as I was saying, autonomous agricultural equipment comes in many flavors from the sensor retrofit kits for existing equipment, such as those developed by Bear Flag Robotics to tractors slightly larger than a golf cart.
- And joining us today we have representatives from labor, management, manufacturing, academia, and the Division of Occupational Safety and Health. So I'd like to introduce our panel members.
- First, representing the Association of Equipment Manufacturers, Igino Cafiero, who is the founder and CEO of Bear Flag Robotics, which retrofits existing tractors with patented AI technology. Bear Flag was acquired by John Deere in 2021.
- Jassy Grewal is here representing labor 24 interests. She is the legislative director with UFCW, 25 Western States Council. UFCW represents over 180,000

California workers, predominantly in the food sector, including thousands who are farmworkers.

Michael Miiller is the director
of government relations for the California Association
of Winegrape Growers and represents agricultural
employers. Mr. Miller has more than 35 years of public
policy experience, including holding leadership staff
positions in the California Senate and Assembly.

Walter Mizuno joins us from Lyles College of Engineering at California State University Fresno. He has over 40 years of teaching and research experience, including work in agriculture and mechanized systems. He currently serves as the director of the Process Control and Automation Academy performing research funded by the USDA, CSU ARI, and the California Department of Water Resources.

And then Mr. Yancy Yap, senior safety engineer for the Division of Occupational Safety and Health, is a lead engineer working on the Monarch Temporary Experimental Variance. He has dedicated 23 years to worker safety at Cal/OSHA, where he has conducted 240 serious-injury investigations.

So thank you to all of our panel members.

Now, this is a discussion, not testimony, so I encourage everyone, Board Members and panel members

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included, to engage in that manner. I'm going to go ahead
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2
    and kick off the discussion with a question that I'm going to
3
    lead off towards our manufacturing representative.
              So, Mr. Cafiero, if you don't mind beginning,
 4
    one of the benefits that manufacturers tout for
 5
 6
    automated machinery is connectivity and the ability to
    push software updates from the Cloud. How can worker
7
8
    safety be ensured from both passive interruption, i.e.
9
    lost signal, and active interference, hackers?
              MR. CAFIERO: Yeah. Can you hear me?
10
              CHAIR THOMAS: Perfect.
11
              MR. CAFIERO: Thanks. What a privilege to be
12
    here. Thank you.
13
14
              I do represent the industry. My company,
15
    Bear Flag, was acquired by John Deere. So I'll speak --
    I'll speak to what I know, but hopefully it more broadly
16
17
    applies to the industry as well.
18
              So the question has really two points.
19
    There's a concern around security from bad actors and
20
    hackers, and there's a question, really, about
21
    connectivity loss, you know, how the machine, you
22
    know, actually operates.
23
              So the first one, you know, cyber security is
24
    intrinsically related to autonomy. And we know this,
25
    you know, as a market leader. Deere, unfortunately,
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being a market leader, we're the target of cyber attacks every day. You can imagine the consequence of a bad guy getting into a combine or a sprayer during a crucial part of the season. The results could be catastrophic and, unfortunately, a lot of folks want to do that. So this idea of keeping our machines secure is nothing new, and we have a couple paradigms to do that. So, you know, the question asks, you know, what can we actually do?

We use things like authentication to make sure the right people are logged into the machines. We use access control to make sure, you know, that I as a user of the piece of equipment can't get access to the whole fleet, for example. We use augmentation so that, if a bad actor were able to get into the machine, they can't have access to other parts of the machine.

And then in addition we have, you know, a very sophisticated security operations center that looks for anomalies across the fleet. If we detect that, you know, something bad has happened. If, you know, if a bad guy has gotten into the system, we can see -- we can see that flare-up and we can react quickly. It's a muscle we built and it's something we continue to do.

I should mention, too, you know, this is an

ongoing thing and we recognize that we're fallible here and we don't -- we don't know what we don't know. And so John Deere and other companies host events where we bring in what we call "white-hat hackers." These are -- these are folks that like hacking, but want to do it for good, not for evil.

And we -- you know, we lay all the equipment out in front of them and we lay tractors and computers and network equipment out and we say, you know, "Do your worst, you know, what can you find here?"

And then we use that information to make our systems stronger going forward. So we have a closed-loop approach to security. And it's something -- you know, it's something we deal with every day. And I'm happy to talk about that, too.

I think -- I think it's very appropriate that we come together as an industry to create regulations around minimum requirements for security and best practices as well, and we fully support that and look forward to an advisory committee to discuss just that.

In regards to signal loss -- and I heard -- I heard some very concerned comments about this and, you know, I can understand the concern around signal loss, too.

I certainly don't speak for all -- I think it

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was all 40 implementations of autonomous equipment out
there. I -- I'm very familiar with a small number, but
I will share, like -- listen, like, of -- of the stacks
that I know, the technology stacks I know, how to deal
with a signal loss is implementation specific. And
there's a wide breadth of varieties of ways to handle a
loss of connectivity.

One of the best practices and certainly in the autonomous stacks I've worked on is you have all the critical computers and sensors local to that machine.

That means these machines don't require connectivity to be safe.

And then, furthermore, they can self-diagnosis, so they know when they have signal loss. There's, you know, pretty basic concepts in systems engineering and robotics called, like, "heartbeats" or the "watchdog timers." And basically what these do is they know -- they know when a sensor or another party isn't -- isn't connected, and so they can -- they can react appropriately. Some -- some systems, when they lose connectivity, will shut down immediately and go to a known safe state. Others that, you know, have the appropriate safety mechanism in place can continue going and be resilient to signal loss. But these are implementation-specific.

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And, you know, we and I and the industry would
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    strongly urge the Board to consider an advisory
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    committee to characterize, you know, these behaviors,
    because there is a wide variety of implementations. And
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 5
    we look forward to working with labor, with academia,
 6
    with government, with regulators to come up with the
    safest, most sensible regulations possible in this
7
8
    industry.
9
              Thank you.
              MS. SHUPE: Does anyone else from the panel
10
11
    have any follow-up questions?
              MR. MIILLER: Can I just add a comment?
12
13
              MS. SHUPE: Yeah.
14
              MR. MIILLER: Sure.
15
              MS. SHUPE: It's discussion.
              MR. MIILLER: I'm Michael Miiler, California
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17
    Association of Winegrape Growers -- and, also, Wine
    Institute asked me to speak on their behalf today as
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19
           They couldn't attend today.
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              On this issue, one, it's a really good
21
    question; I mean, it's a critical question. Our
22
    growers in using these -- this equipment --
23
              UNIDENTIFIED SPEAKER: (Unintelligible) can't
24
    hear you.
25
              MS. LASZCZ-DAVIS: (Unintelligible).
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MR. MIILLER: Dave can't hear me? Is it on?
1
 2
              MS. SHUPE: It's on. You're just not close
3
    enough.
              MR. MIILLER: Okay. Now can you hear me,
5
    Dave?
          Sorry about that.
 6
              So in using the equipment, our growers want to
    make sure the equipment works and is safe, for a bunch
7
8
    of different reasons. One, we want to make sure that our
    workers are safe. We want to make sure that there's
 9
    protections against hacking.
10
11
              Above and beyond that, you have to remember
12
    our growers are taking a chance putting this equipment
13
    into their, you know, vineyard or their orchard or their
14
    field, because what they're doing is they're saying,
15
    "Here's this machine; we're going to put it into the
    field and hope it doesn't run into the vines, hope it
16
17
    doesn't run into a tree, hope it doesn't, you know,
    cause damage on the property and to our -- to our
18
19
    employees."
20
              So, in looking at making that purchase and
21
    that investment in that equipment, they're going to want
    to see all the evidence that this machine is safe and
22
23
    there are protections against hacking and failure.
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And one thing we know when we were down in

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25 Tulare where we had a machine that lost its

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connectivity, the fail-safe worked. It stopped.
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2
    didn't operate. So we saw at firsthand what happens
3
    when it doesn't have that connectivity. It just stops
    working.
 4
5
              So we share that concern.
 6
              MS. SHUPE: Yeah, absolutely. Please don't --
7
    just jump in.
8
              CHAIR THOMAS: Don't hesitate. Just jump
9
    in --
10
              MS. SHUPE: (Unintelligible).
              CHAIR THOMAS: -- because everybody else will.
11
12
              MS. GREWAL: Jassy Grewal with UFCW.
13
              I would say we have two main concerns as it
14
    relates to the connectivity of automated machinery.
15
              The first is the lack of reliable and secure
    signal, particularly in rural areas, and operators
16
17
    restarting tractors for lost signals when it's actually
18
    a safety issue. So I think our concern is that if equipment
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    shuts down, is that because of signals or is that
20
    because of some safety issue that's actually happening
21
    with a worker or some other issue with that tractor?
22
    Worker safety cannot be insured for passive or active
23
    interference. That is the point.
24
              How often do cell phones still lose signals in
25
    urban areas decades after the technology was introduced?
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This problem is made worse in rural areas where there isn't access to the internet. The state is investing more resources to address the digital divide that rural communities face, but we are a ways off from fixing those inequities.

It seems like we have the cart before the horse here. A worker's death or serious injury should not be the impetus to figure out how to fix these problems. We need to make sure they're fixed on the front end, not on the back end.

These heavy-duty automated tractors are reliant upon a secure and stable signal. Otherwise, all these so-called safety features will not be effective in protecting the very workers they are intended to protect. I know you've mentioned that it is not always reliant upon that, but we don't know about the numerous other devices that are out there and how they are set up with their safety signals.

On our second main concern, we are extremely worried that remote operators, off site or elsewhere, in a field will get used to restarting tractors that stop due to lost signals. This creates a real danger that tractors may be restarted when they have stopped because a worker has collapsed or fallen off the tractor's path or, if there's a system glitch and if the tractor is

restarted, could pose a significant concern to workers that are near or on the tractor.

This is made even worse when you have remote operators watching more than one tractor. This means a remote operator is not able to immediately identify why the tractor was stopped before they remotely try to restart the tractor, believing it was for lost signal when, in fact, it was a much more serious health and safety issue.

On the issue of active interference from potential hackers, active interference can give a remote operator inaccurate information on the tractor, leading to a disastrous consequence. The more connected these tractors are, the more hackable they are. Any manufacturer that says this isn't a concern is not being truthful. Hackers have repeatedly accessed the most secure corporations and most secure government defense agencies on earth. They would have no problem with autonomous companies.

And hacking doesn't just happen with active software interferences. There are other ways to throw off autonomous tractor safety features within the external environment. For example, including something on the ag site that would cause the tractor's programming to derail the tractor's programmed pathway. So you saw this when Tesla was piloting their autonomous fleet. They

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actually looked at -- not on the internal side, but the
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2
    external, what can you do on that tractor's path or
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    that vehicle's path to actually derail some of these
    very heavy-duty machinery with open blades? So Tesla didn't
 4
    do that. They looked at their car vehicles, but I'm
 5
 6
    relating it back to tractors that are heavy-duty with
    open blades that are sharp that could hurt workers.
7
8
              MS. SHUPE: Well -- and then I think we are
9
    all, you know, looking for a lot of corollaries between
    what's going on with Tesla and other autonomous road
10
    vehicles and looking to apply them to agriculture.
11
12
              MR. YAP: I actually have a question for --
    directed to Igino.
13
14
              So, with the proprietary technology from
15
    various manufacturers of autonomous equipment and the
    stringent access to the databases for these equipment,
16
17
    how do manufacturers ensure transparency to regulators
18
    to verify safety issues with the equipment?
19
              Suppose there are near-miss -- you know,
20
    near-accidents and events that occur that -- that, you
21
    know, that occur in the field that we would not have
22
    known about otherwise?
23
              MR. CAFIERO: Yeah, absolutely.
              And thanks -- thanks for the comments.
24
25
    exceedingly helpful for me and for industry to hear the
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concerns of folks that aren't closely looking at this technology. And we have real opportunity here to share our approach. And my hope that, you know, sharing, sharing the real engineering work going on here, the hard engineering work going on here, would do quite a bit to subside some of the concerns folks had around safety.

I'll mention quickly, I think it's -- there's a potential that we're conflating, you know, signal loss with a loss of safety. You know, any system needs to be resilient to signal loss. I don't mean to speak for all implementations, because I don't. But I can speak for the implementations I know that a system that isn't resilient to signal loss would potentially be a very unsafe system, and we're certainly not advocating for that.

What -- what we would advocate for is an advisory committee that comes together to discuss the details of those, because there's some really important details, and I think -- my hope is that parties here would be interested in learning more and we could -- we could explain how we design these systems robustly and resiliently. I'm exactly for those situations.

Yancy, thanks. It's good to see you again.

Thanks -- thanks for the prompt there, too.

You know, there's -- the data landscape's complicated, right? And understandably, different manufacturers have sensitivities around IP and sort of what they collect, you know. And I get that.

I do think there's an opportunity here to be transparent with that data -- share relevant data that helps regulators, helps the public, helps users, helps owners gain confidence in that machine. And where that's appropriate, we're certainly excited to do that.

And once again -- you'll hear me. I'll sound like a broken record here. The call is for an advisory committee to be set up to do exactly that. Let's -- let's determine what's useful and helpful, and then let's share that data and move forward so that we can -- we can create a safe -- you know, safe industry here.

MS. SHUPE: At the risk of derailing some of your discussion comments, I do want to say, you know, this panel discussion exists outside of an advisory committee. An advisory committee is something that happens once rulemaking has commenced, and it's really conducted by staff. This is an opportunity to talk to the Board Members, and that's where we want to focus our comments.

CHAIR THOMAS: I think Dave Harrison wanted to make a comment. Dave?

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              MR. HARRISON: Yeah. I just wanted to go back
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    to one of the things that -- and, "Igino," am I
3
    pronouncing that right?
              MR. CAFIERO: Yeah, close enough. "Igino."
 4
 5
              MR. HARRISON: "Igino," okay.
 6
              You talked about using white-hat hackers, and
7
    we've been engaged with this industry and manufacturers
8
    for several years now -- "we" being not just the Board,
9
    but in other capacities. And these white-hat hackers
    are finding, you know, leaks in the system that were
10
11
    able to make the system stronger.
12
              We've heard some comments in the past that --
    from other manufacturers, our systems are a
13
14
    hundred-percent bulletproof, and -- and based on the
15
    comment you made, obviously, we know that's not true.
    What would you see as an acceptable level, let's say,
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17
    if a hundred percent were bulletproof and zero
18
    percent means the thing's going to run off on its
19
    own and kill everyone in sight? At what percent of
20
    security would you think would be acceptable to engage
21
    this equipment in the ag industry?
22
              MR. CAFIERO: Yeah. Thanks, Dave.
23
              I -- I would agree with the statement that
    connected -- you know, connected devices. It's -- I
24
    haven't seen a system that doesn't have some
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vulnerability, and this goes for everything from simple
things like your thermostat to fighter jets to, you
know, any other mundane -- trains, planes, automobiles,
right? There's innovative people out there on both
sides and it's, you know, kind of an arms race, and that
doesn't apply just in ag or just to tractors, you know;
cases vary, right?

And Dave, even there, like, within a system.

there's parts of the system that would be, you know,

more vulnerable to hackers and some of them will be less

vulnerable.

I'll take, like, the commercial airline example. If you -- if you get on a Jet Blue, you can watch TV and you can plug in a USB device, and there's a potential to hack that, you know, TV screen right in front of you. Does that mean that the autopilot's vulnerable on that plane? Probably not.

And so it's a nuanced question. I'm not qualified nor have been thoughtful enough to sort of give a number to what's an acceptable vulnerability rate for systems. I would -- you know, I would expect to compare it to other paradigms and look for some examples in industry that have been set, perhaps, in aerospace or in defense or in automobiles as well. But I don't have those numbers offhand.

MR. HARRISON: Yeah, and I appreciate the honest response there.

I just say my concern is around -- you kind of compared it to an airplane where there's a pilot in the seat and we're talking about a tractor with no pilot, and that's where the concern is.

So thank you.

CHAIR THOMAS: Yeah. And I -- I just want to make a comment, because I think our concern -- mine and Dave's and people in our position is that, you know, automated sounds great, and I know there's a cost-benefit analysis for having them. They sound pretty expensive to me than having someone behind the seat. But, I mean, we all know it's going that way.

And I think one of the things -- and I don't know that anybody has the safety records of, this type of machinery being used with live humans anywhere for any amount of time, where we have kind of an idea of what actually happens out there where the work's being done and where people are vulnerable and things can happen.

If there is, I heard a lot of numbers earlier in the meeting. I didn't hear about any accidents or any fatalities, which, I think we all know, if it goes on long enough and there's enough, there's enough study

of it, there is going to be some injuries, possibly fatalities, and what the reasons are that those particular issues happen. I don't -- I don't know that we have those facts at hand.

And I realize that we take a lot of things for granted nowadays, but we all know we have really smart cars now and really smart phones, but I'm not taking my hands off the wheel, even if I got the guardrails on everything else, because I don't trust it.

So what -- I mean, what's your answer to the fact that at some point you will probably be liable for something, injury to a human or death to a human and, you know, what -- and I think Dave was asking what's an acceptable cost.

I think we all know that things are going to happen out there, whether we intend for them to or not. Whether it's being run by a person or automated, doesn't matter; something's going to happen. So I'm just kind of asking you how long -- I mean, because I haven't seen enough numbers to really show me that there's a big advantage to it. So.

MR. CAFIERO: Thank you, Chair Thomas. I love this conversation. This is where I spent close to a decade of my life is having, you know, this conversation. And thanks for the opportunity to have

1 it.

to our society right now.

I'm a California native. I grew up in

Palo Alto a long time before anybody knew where
Palo Alto was, which dates me a little bit. Somewhere
at City Hall, I can't remember where I saw it,
there's a picture of a tree, and it's the site of the
first car crash in Palo Alto and it was over a century
ago. And the little plaque was pretty funny. It was
tongue in cheek and it said -- you know, folks stood
around and said, "This would never happen to a horse. A
horse would never run into the tree. These cars are
dangerous, and what are we doing here?" And you look
forward, and obviously this is a humorous example, but, you
know, technology marches forward, and cars are foundational

You can imagine trying to go farming without a tractor today. You know how dangerous that would be, you know, if we were trying to till, you know, all the acres in California with picks and shovels. The amount of heat stroke and exhaustion and toil on the human body would be unthinkable.

And so when we think about the benefits of autonomy, it's really an evolution of those same things. You know, we talk about getting folks further away from chemicals. We're talking about getting them help

moving, you know, and high-value crops moving. Moving
the fruit -- you know, lettuce, grapes, table grapes, et
cetera. Heavy crates long distances using robots to
help them do that.

We're talking about removing them from heat and exhaustion. This came up in different contexts as I was pleased to hear that others in California are discussing, you know, climate change-related heat injuries as well, because it's super relevant.

I've -- I spent a considerable amount of time in the last decade sitting in tractors in over-a-hundred-degree heat in the Central Valley. It's -- it's important, and it's good work, and it's hard, and you need breaks. It's -- it's extremely strenuous.

And then we talk about heat-fatigue-related deaths -- or, sorry, injuries operating machinery, distracted-related injuries operating machinery, you know, low-light conditions, all these things, and autonomy endeavors to reduce those incidents as much as possible, and we're certainly on that arch.

I -- yeah, this is the carrot, you know.

There's certainly -- you know, with what's possible, we also need to be prudent and the industry is looking for regulations to be established to make sure that we can be prudent in our advances as well.

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MS. SHUPE: So that actually leads me into one
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2
    of our next questions.
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              MS. STOCK: Christina, I actually had a
    question, if I could.
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 5
              MS. SHUPE: Yeah, please.
 6
              MS. STOCK: Sorry about that.
              Yeah. It's kind of following up a little bit,
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8
    you know, on a comment that Dave Thomas made.
 9
              I know we heard this morning about -- somebody
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    was testifying about the hundreds that were in use with
    no accidents, and I want to just reiterate that the
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12
    questions that I had in my mind when I was hearing about
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    that is, like, what were the conditions on the ground?
    Were there workers in the field? And I think that's
14
15
    really what we're looking at, is trying to get evidence
16
    about what happens in a place where there are no
17
    labor-intensive agriculture like we have in California,
18
    and varied terrain, et cetera.
              And -- you know, of course, I appreciate --
19
20
    again, I'm sorry, but I don't remember your name, the
21
    person who just spoke, your concern about those issues
22
    around climate change and all of the benefits of that
23
    autonomous equipment. And I agree with you, you know.
24
    There's great promise in that and exciting to look
25
    forward to that.
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I think the issue is whether many of those benefits can be achieved, you know, without having to sacrifice an operator in place to be sure that they're safe.

But I had a question that I wanted to ask the representative from the Division, if I could. And it was specifically about the experimental variance. So I know that the last time this came up, when we denied a petition. We granted an experiment -- excuse me -- an experimental variance, but there was some discussion and concerns about the variance and we wanted to -- before we approved a petition for a regulation, because we wanted to wait for the results of that variance, that experimental variance.

And at the time I remember questions being raised about what kinds of fields that variance -- that the tractors were being used in, whether workers were given the opportunity to speak about their experiences, particularly with the fear of retaliation. So I think there was a specific request that we be sure that we would be able to have that occur in a place where workers could speak up about their -- their -- their experiences and conditions and concerns about it.

So I wanted to ask if -- if we could hear a little bit about how that variance -- how is that going?

Because my understanding is that it's not done yet, that 1 2 it's in one of its early phases, so -- and I know we 3 were -- we had said before we wanted to wait until the completion of that until we considered sort of new 4 5 regulations. 6 So could you give us an update on -- on what 7 you're learning and whether you're learning the things 8 we were hoping you would learn? 9 MR. YAP: Yeah. Christina, I know one of the questions was related to this. I don't know if we want 10 to visit it now or later. 11 12 MS. SHUPE: I think we can just wrap it right 13 in. 14 So one of the questions provided to the 15 panelists that leads directly into your question, Laura, 16

panelists that leads directly into your question, Laura, was, you know, as part of the oversight of the TEV, they've been collecting performance data. And we want to know, you know, what does that performance data show for human-collision avoidance at the two agricultural sites where the Monarch Tractor is used.

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MR. YAP: So I want to answer Laura's question first, and her question was related to what have we done since the last decision was made by the Board Members related to involving labor in the experimental variance.

So when the experimental variance was drafted, it's almost like a contract between Monarch Tractor and the Division. And those -- those conditions that we set and worked together in -- in agreeing to remain in place and since they didn't involve labor, we can't make adjustments to our experimental variance in that fashion.

As far as --

MS. STOCK: Excuse me one second. If I could just ask a follow-up. I know you're right that we talked about labor, but I was actually maybe going a little bit deeper than that.

If you could report on whether you had an opportunity to speak to workers in the field, even if it was not, you know, with labor. So if you could comment, if there's any information you have related to that, that would be helpful. Sorry. Please continue.

MR. YAP: Well, the interaction we had related to experimental variance was with Monarch Tractor. When we went to the field, when I conducted field surveys, the workers were absent from the field. There were no workers to interview to find out what their experience was with interacting with the -- with the tractor.

UNIDENTIFIED SPEAKER: Yancy --

MS. STOCK: Sorry. And are you saying that

when you conducted those, there were no workers in the fields, so you were not able to observe how it worked when there were workers in the field? Am I hearing that correctly?

MR. YAP: That's correct.

Let me continue with the -- so to give Monarch credit, when they used the tractor and when they ran it in an autonomous mode, they ran it in fields where normally workers were not working in. And when I -- when I spoke with the growers, if they were using traditional tractors, there normally wouldn't be any workers in the field. So, essentially, the tractors are being used for weeding, for pesticide application. They weren't being used when -- when -- when workers were working near the tractors, working and walking about around the tractors.

So in grape harvest, I've, you know, had a chance to do grape-harvest survey. And using traditional tractors, an operator would tow a trailer carrying the harvested grapes and a crew of about 10 to 15 workers would pick grapes and load them onto this trailer. And with the experimental variance, the tractor wasn't being used in this fashion.

MS. STOCK: And can I just ask, just as a follow-up, so given that --

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MS. SHUPE: Laura, if you don't --
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2
              MS. STOCK: -- the --
 3
              MS. SHUPE: I don't know if you can see, but
    Mr. Mizuno actually has a point to add that might be
 4
5
    helpful.
 6
              MS. STOCK: Oh.
                               I'm sorry. No, I can't see
7
          Yes. I'll wait 'til he continues. Sorry about
    that.
8
    that.
9
              MR. MIZUNO: I'm sorry to interrupt, but it's
10
    a question in terms of the test conditions.
              When Monarch was operating their tractors, the
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12
    type of work they were doing, did it approximate what it
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    would do in real life? In other words, you're saying
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    that when you're harvesting grapes and you've got people
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    in the field and you're in an autonomous vehicle, people
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    would be around that tractor? In the case that you're
17
    explaining, if I understand you right, you've got the
18
    tractor doing work where there ordinarily would not be
19
    anybody in there. So this is the type of test condition
20
    you've got, right?
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              MR. YAP: That's correct.
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              MR. MIZUNO: So I guess my point is, when
23
    you're looking at application later on, the grower would
    most likely put that tractor into service for its
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25
    intended purpose, right, unless it's designed to work
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in a -- alongside other people in the field, but instead
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    it's designed to really work autonomously by itself.
2
3
    That's the way it would be employed?
              MR. YAP: That's correct.
 4
 5
              MR. MIZUNO: Just a clarification. Thank you.
 6
              MR. MIILLER: Could I add on to that just
7
    quickly, because this is --
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              CHAIR THOMAS: Just jump in, man.
 9
              MR. MIILLER: Okay. So this -- this is a
10
    really important distinction.
              When we're looking at this equipment we're
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12
    talking about, this technology, I think we're
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    assuming that California law is what's happening in the
    rest of the world, and it's just not. This equipment
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    is already in use in Europe, New Zealand, South America,
    Australia, Oregon, Washington, the Midwest. Everywhere
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17
    that grows a crop has this equipment available and it's
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    in use already. We're the only place that I'm aware of
    where you have to have a person physically on board this
19
20
    tractor.
              So when you're looking for data, you have to
21
    recognize that we're talking about something that's just
22
    out there in the real world everywhere except here.
23
              So the data, it's out there. Every
24
    manufacturer has -- can tell you where their parts are
25
    being sold and how they're being used. For us, our issue is
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when you look at the hierarchy of controls, right, you want to make the workers safe. That's the top priority. How do you do that? Elimination of the hazard is your top goal.

That's part of how you do it. If you're looking at a tractor, there is just an inherent risk in operating a tractor.

And what we've done, instead of, you know, just eliminating the tractor from the workplace, what we've said is, "Well, we have to make sure someone's on board the tractor; we've got to put safeguards, anti-roll features, those kinds of things." And they do work and they make the tractor safer, but there are still accidents. I know of a grower who lost his son in a tractor accident, and I was there when he got notified, you know, that his son had been killed in a tractor rollover.

I guarantee that employer -- that person wanted his son and his people to be safe. But there are just some inherent risk. And if you really want to address that risk, take the driver off the tractor, that's how you do it, or you make the tractor safer by making it autonomous, in other words.

When you -- when you look at all that, all that together and make that your top goal, then you can have a conversation about, "Okay, if we're going to

eliminate the driver from the tractor, how do we put parameters around making it really as safe as possible against, you know, potential risks with other people there?"

To Yancy's point and to the professor's point, we predominantly use these equipment when there's nobody else there. You're spraying a pesticide through a sprayer -- this is a sprayer that is being pulled right now. There's nobody on board that sprayer. By taking the person out of that situation, you're reducing their potential exposure to the pesticide, right?

You're also, by using precision application of the pesticide through the collection of the data, through robotics, you are reducing how much pesticide is being used. So it also reduces risk for the environment and the worker. So all that combined, when you really look at the hierarchy of controls, the existing regulation is actually an impediment to safety.

When you look at the technology that is existing today, that we're saying "No, you can't use it," you're actually creating a needless risk, and that's why we would like to see it changed.

And I think, to the point of the gentleman from Deere, there is a conversation to be had about how do we, you know, amend the regulation to fix it to make

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    it -- you know, so that people feel comfortable with it
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    and can understand the total technology and the
3
    parameters around it. That's all.
              MS. GREWAL: I didn't know if we could ask
 4
5
    questions. I'm happy to jump in. I just wanted to --
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              CHAIR THOMAS: Just -- just jump right in.
              MS. GREWAL: Yes. I just didn't know what the
 7
8
    process was with the Board Members.
9
              MS. SHUPE: (Unintelligible).
              MS. GREWAL: We often hear, when it comes to autonomous,
10
    whether it's heavy-duty fleets, autonomous cars, "Well,
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12
    everyone else is doing it first so why are we behind?
    It's deployed elsewhere, but California's lagging."
13
14
              Well, California has a specific process in
15
    place for a reason. It is to protect workers. And when
    I hear Yancy say that, "Oh, we're only piloting this in
16
    an area where there's no workers around that is
17
18
    extremely concerning to labor, to UFCW, because we
    have workers in lettuce plants -- in lettuce fields."
19
20
              And in lettuce, how harvesting happens is you
21
    have workers around the tractor. They are pulling
22
    lettuce heads out of the ground, putting it on the
    tractor. They might be on the tractor; they might be
23
    near the tractor in very close proximity. And so if you
24
25
    don't have a human safety operator on that tractor, the risk
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for something to go wrong, to hurt one of the workers who is in front or behind the tractor, is very significant.

And I think what is concerning to us is that we know that if autonomous tractors are approved, that will be something that is used in our workplace setting without understanding the human risk and the human toll that it could have, since this variance does not have that worker component. And I think that is extremely concerning for us of making sure we're not putting the cart in front of the horse here, that we are truly protecting these workers.

And when we talk about the workers, we have to remember these are workers who are often sometimes not documented. They are not eligible for safety net programs. They do not get healthcare. So if they are hurt, that is something those families cannot afford to have, because often there are families working together in the field and they're relying upon each of these -- each other's incomes.

So you have one worker get hurt in an autonomous tractor accident, that is someone's whole livelihood that is gone. And especially for someone who is vulnerable, like an undocumented worker, that is not something that they can take on. So we have to be really cognizant about the workers we are affecting

here, and when we're talking about the impacts of those workers, what it means in these test pilots to actually understand where the technology fails so we can protect workers in the future.

We are not opposed to technology. Technology does have a value in making sure our members work and safer. But it is not a replacement for their work. You have someone who is there that can immediately respond to a situation, not someone who is virtually away, not on the field, trying to tackle eight different tractors at once and figure out, "Oh, no, this one might hit one of the workers in the field; oh, now I have to stop it."

But what is that delay between that human stopping it and then the stop actually happening with the tractor? So I just wanted to touch on that.

And then I did have a question for Yancy, but I can ask that after, I know, some other commenters.

MS. SHUPE: Yeah. I'd like to jump in here, because I think that Yancy -- and correct me if I'm wrong, but you're in just the first stage of the temporary experimental variance, but you do have plans for human tests, right?

MR. YAP: So, as a clarification, when we drafted the conditions for this experimental variance, we told Monarch that we wanted workers in the field

doing normal duties. And it wasn't until I performed

field surveys that I found out that workers were in

separate fields when the tractors were being run. So

-- but our intention was to have workers performing normal

work in the field, and I wanted to have human avoidance,

collision avoidance, with those workers in the

field.

Those were the data that we were looking for and we wanted to see how it performed. But we didn't get that, so that's -- I mean, that's where we are.

That's how it is.

MS. KENNEDY: So it seems to me that there are sort of different images in people's heads about what goes on during farming. And, you know, doing something like weeding or spraying pesticides and implementing that is very different than harvesting, where you do have a lot of people in a field. Some operations, there are no workers in the field, and some operations there are a great number of workers in the field, and I think it's really confusing and not helpful to the conversation to mix the two together.

And so maybe one way, as we move forward in this development of this technology, which is likely going to keep moving forward, is to start in places where there aren't a lot of workers in the field.

And my guess is that's already what's being done. I

don't know. I'm in California. I don't see a lot of

it. But I do think that's important to remember

as we move forward in the conversation.

MS. SHUPE: John, have you resolved the

technical issue with the slides? I think that they

might add some -- some value here.

- And I see that we have two hands up from our two remote participants as well, but if we can pull those slides up, it will give everybody a visual of really the breadth of what we're talking about, because Monarch is just one manufacturer in this space.
- Okay, so you'll see here a John Deere autonomous tractor. And I think it's important to note that we're not just talking about the tractor itself, right; we're talking about everything that can be attached to that tractor as well.
- Go ahead and advance to the next slide. Other direction.
- This is the Monarch sprayer that the Division has been working with. And you'll see it in an application where there are no workers around it. This addresses some of the secondary hazards, right?

 Exposure to pesticides.
- Next slide.

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1	But here you'll see autonomous vehicles in
2	strawberry harvesting. Now, this picture only shows one
3	worker in the field, but you can very easily imagine a
4	number of workers next to these machines, which are
5	described as lightweight, but are obviously
6	significantly larger.
7	Next slide.
8	And this, again, we talked a little bit about
9	the things that can be attached to these tractors. Now,
10	this is a planter that I think, it runs 120 feet.
11	MR. CAFIERO: Don't quote me on
12	specifics. That sounds about right.
13	MS. SHUPE: Yeah.
14	MR. CAFIERO: Product people would
15	(unintelligible).
16	MS. SHUPE: Significantly larger than a golf
17	cart.
18	And then go ahead and show us the video.
19	Now, we mentioned earlier some of the
20	autonomous equipment being used in Australia and other
21	countries.
22	MR. ROENSCH: Doesn't seem to want to
23	show the video.
24	MS. SHUPE: That's unfortunate, because what
25	you would have seen is a rather large vehicle. Looks

much more like an armored tank, but with no space --1 2 CHAIR THOMAS: Here we go. 3 MS. SHUPE: Here we go. Lots of potential Nobody on board. I don't know that these even 4 have a kill switch on board, but it's also being 5 6 operated in an area where there are no workers at all. And I think it's important as we advance 7 through this -- and, Nola, you touched on this -- is to talk 8 9 about we don't necessarily go straight to this, you 10 know, what's the intermediate step? While you were at the -- and I'm going to go 11 12 back to my questions. While you were at the World Ag 13 Expo, and I think most of the folks here were able to 14 attend that, you may have seen some of the 15 labor-replacing autonomous machines, such as the 16 airborne drone sprayers. And we heard testimony earlier from Adam Fine from Bluewhite about the number of 17 18 rollover fatalities that happen every year, and so those are 19 examples of where autonomous machines are being used to 20 increase safety, but in applications where the work site is 21 expected to be secured. And we don't have any regulations on 22 what a secure work site is. 23 So my question to the panel is which labor-enhancing autonomous equipment might offer safety 24

improvement for workers over existing safety standards,

25

you know? And can we start there. And I see hands up for both Dave and Laura, so I invite either of you to jump in.

MR. HARRISON: So I just want to make a couple of observations.

We heard earlier today from AEM about data that was collected, you know, and from Michael Miiller that these machines are being used all over the world. And we've asked for -- for near-miss statistics.

I would follow up with asking for hacking statistics and the data -- not specifically, obviously -- but data around what the white-hat hackers are able to find to make these systems stronger. How many attacks or how many threats were detected on a regular basis with this stuff?

I mean, we've talked about collecting data to support the request of the petitioner or anyone else wanting to bring this technology into California, and I think it's extremely incomplete data.

And just follow up again that there's a lack of labor involvement, right? We're relying on -- and I've said it before -- a largely immigrant or family-owned workforce that are the least likely to stand up and say, "Hey, there was a near-miss and somebody should be contacted." One of my concerns. I wanted to just drop that into the conversation.

1 Thank you.

CHAIR THOMAS: Laura, you had --

MS. STOCK: Yeah, I just want to jump in very briefly just -- just to kind of -- you know, what we're hearing, back to what our decision was before.

We felt that we weren't ready, but we were going to get this information from this experimental variance. So it seems clearly what I've heard is that we're not getting the information that we would need on that experimental variant. So unless something else occurred where Cal/OSHA was able to do their investigation in real-life situations where people are in the field, we're able to talk to workers about what their experience was, I don't feel like we're going to get the information that we already said we needed before moving forward on rulemaking. So I just want to highlight that.

And that, going forward, you know, if this is going to be something that comes before us, I hope we can explicitly seek that kind of information. You know, what would it look like where workers are there? How can we get labor involvement? How can we be sure that there are workers who can speak freely and confidently that they -- you know, anonymously or however necessary, to be able to speak up? Because, as Dave and

Jassy both said, this is a population that has a lot of reasons to be fearful about speaking up. So it feels like we're missing some very, very important information.

MR. CAFIERO: Thank you, both, for those points.

My observation, being here briefly and, you know, in this dialogue, is I'd venture to say we're actually quite aligned with labor. And the areas that we're not, as Professor Kennedy pointed out, might be misunderstandings.

There's -- I think there's some assumptions about the technology, how we're implementing it, that made us not be complete. And I look forward to the chance to explain some of those, you know, to address those concerns directly.

Specifics do matter. I don't know if this is the forum to get into, you know, systems engineering conversation, but applications that we operate in autonomously -- how many people are around the tractor? What are those people doing? Are they -- you know, what clothes are they wearing? These things matter and we need to talk about them to create a safe environment.

Additionally, too, I don't pretend to know too much about the process here with the Board. The variance that happened with one specific company --

there's a plethora of companies that also have information are eager to join the conversation along with other parties, along with labor, along with regulators.

And I don't know what the appropriate next step is, but we're eager to discuss and share what we can to illuminate the situation.

CHAIR THOMAS: Go ahead.

MS. KENNEDY: I was just going to say it seems like we're not going to be able to get California-based data, since we don't allow these vehicles right now. But it would be great if we could hear more about data from other places to address our concerns and the things we're asking about.

CHAIR THOMAS: Yeah. I would say, if there is all -- if this is happening in all these other different states and areas and around the world, that there would be data that would show what happens. I mean, there should be.

I don't know how every state keeps their records as far as fatalities and accidents, you know, on farms and stuff like that. I don't know. But you would think that there would be some statistics that would be available to look at and kind of make an assessment of whether this is something that would be attainable, I

guess. But from what I'm hearing right now is most of the things that are being done -- and I don't know about the other states either. It may just be done the same way it's done here is there's not really people around.

And I understand why they would do it this way, because you know, these machines don't get hungry. They don't need breaks, you know, they don't need any of that stuff and they can just keep going. And I get that. But if there's no people around, that's a whole different thing than mixing them in with people and I don't know that there's any data on that.

MR. CAFIERO: Chair Thomas, I'd like to come back to the other point too about, you know, folks in other states doing other things.

I completely agree with the gentleman on the right side of our screen here. You know, just because other states are doing it doesn't mean we should do it.

My seven-year-old son knows that -- knows that argument too. And we're completely aligned there.

I think the important thing to call out here is the benefits of autonomy. And if you look at, "Hey, what we're proposing is you're going to get out of that field; you're going to get into an air-conditioned room; you're not going to have the excess heat, vibrations, exposure to chemicals, all these things that

exist in real farming today."

And, furthermore -- and this is a point that

Adam Fine made, which is incredibly on point -- is we're

opening up the labor pool to folks who might not have

considered agriculture previously. Folks who don't

think that their, you know, bodies could handle the

hardship of a day in the field, which is quite extreme.

And we've opened up the labor pool.

So on one side, we're making our workers more productive, helping fill this labor gap, but we're also attracting more folks to the industry.

And then, lastly, something close to my heart as an employer in the state is upscaling labor as well, saying, "Hey, listen, like, you're going to come here; you're going to learn the skills that you need to have upwards mobility; you're going to learn computer skills; you're going to learn technical skills; you're going to learn how to interact with complex technical systems, which should further you on your career." And we've seen that at Bear Flag and I'm very proud of that specific thing as well.

MS. LASZCZ-DAVIS: I'd like to say just a couple of things, if I might.

You know, as Nola spoke, I thought, you know,
I align with her observations entirely. I think we're

talking apples and oranges in terms of the view of what
autonomous equipment and its circumstances are. And I
think you need to separate them, because, you know, as we
move forward, it may be more appropriate to deal with
certain circumstances versus others.

So, I mean, this isn't going to be a carte blanche put these vehicles out there and hope to God nobody's out there. I mean, that isn't the way this is going to work, for one.

The variance -- and I have to -- I'm not sure that we heard your information the same way. What I heard you say was that, you know, you went ahead and, you know, you observed the operation, but that there were no employees in the field.

Was that the intent of the operation? Or did they purposely move the employees to other fields?

MR. YAP: That was not the intent of the experimental variance. We wanted people to be in the field.

MS. LASZCZ-DAVIS: Okay. Okay. And I wanted a clarification on that, because I wasn't sure about that, because there would be autonomous operations where you wouldn't need to have people in the field. Okay.

MR. YAP: Correct.

MS. LASZCZ-DAVIS: That's good. And the

benchmarking data comment, I've heard it several
different times; you've talked about it globally;
you've talked about it nationally; pull the data
together and share it with us, quite frankly.

And I hear a lot of focus on injuries and fatalities. What I found over the years of working in industry -- incident data is absolutely powerful. And, you know, that's not being collected. That's a strategic error. So if you had the incident data -- those are the near-misses -- that's real important.

MR. CAFIERO: What's the best format to have this discussion? Where can we engage with, you know, labor and government and -- like, what's the best way to do that?

MS. STOCK: I'm sorry. Can I just ask one thing to Chris's comment where you're asking for incident data, which I completely agree.

I just want to again highlight where we both need to find that data and we have to think about where we're getting it from. I feel like if we don't have a mechanism to be able to talk to people, workers who are in the fields, who may have observed near-misses that actually didn't maybe make their way up to something that the technology captured, I just want to say if we're going to be looking for external data to answer

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this question. I really feel like it's important to figure out a way to be able to capture data from workers in the field. So -- because otherwise I think that what we're going to get in terms of incident data is going to be, you know, tremendously under-reported, potentially.
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Sorry. Go ahead.

MS. LASZCZ-DAVIS: But going back to your question, I mean, to me the most logical path forward would be an advisory committee process of some sort, where this could be further discussed and refined.

That's just my personal bias.

CHAIR THOMAS: Yeah. And I don't -- I don't really think there's any disagreement with that, because, you know, we're all going through this. We're all learning about it.

And, you know, to your point about the car smashing into the tree, you know -- and we all know, car manufacturers, they run test after test after test on everything they do. I mean, that's how we have seatbelts now that we have to put on. And they're getting better and better because you can't avoid them anymore, you know. You can't -- you can't shift unless you put your seatbelt on, but I'm bad. I'm bad about that, but I've gotten a lot better, because I had to.

But -- but it's -- it's interesting. And I

think we all -- labor has concerns. I know you guys have concerns, because I know nobody here really -- they don't want to hurt anybody. They don't want to kill anybody. And, you know, for the most part we don't want people to lose jobs because of automation, although we know that that is inevitable at some point, but there may be other and better jobs that come out of that.

But I still think that what you said, Chris, is the data -- I mean, that -- I mean, at least it's something we can look at and say, "Okay, you know, we can -- we can look at this and we can kind of evaluate how we want to set up something."

And -- but I think that-- I think it's really important, and I've heard a lot of stories, especially with operating engineers, where, you know -- where it used to take seven or eight people to run a pit. They got one guy with a computer doing all this stuff and probably, you know, changes their whole financial setup of the company. And, you know, I mean, if people are going to try and make as much money as they can without having any liabilities or anything else, that -- that is going to happen. But I think that we're not really opposed to the idea. I think what -- there's some other things that we're opposed to, but we don't want to get people hurt and we don't want -- we don't want to lose

jobs. So there's got to be a fine line in there somewhere where we can do what needs to be done with those vehicles so that we can learn more how to -- how to make them work right, work with people, and --

Yeah, that's a long way of saying, "Yeah, we should have an advisory committee." That would have been probably the easiest thing to say, real quick, right?

MS. STOCK: Can I just make a comment on the advisory committee?

And just back to, Christina, you were telling us earlier -- I just want to kind of flag what you said, or be sure that I'm understanding it. I think everybody agrees that more conversation is valuable, where labor and manufacturers and employers and workers can get together and talk about it and hash out these issues.

So I think, you know, creating a forum where that could happen is only going to be beneficial.

I think advisory committee has a very specific meaning in our system and that only -- if I understood what Christina said, that only occurs when a petition has come before it and -- and the rulemaking has begun. So I don't think we're there yet. And, in fact, we denied the most recent petition. So I -- I just want to say that the advisory committee, as it's organized by the Standards Board -- Christina, correct

me if I'm wrong -- is -- is not necessarily the forum that is going to be available at the moment. That does not preclude another, you know, privately organized or publicly organized forum where these people can continue to come together and hash out these issues.

But, Christina, can you just clarify if I'm understanding what you said correctly?

MS. SHUPE: Yeah. So I think that conflating the petition process with the advisory committee process is a misunderstanding. We can actually begin what we call "pre-rulemaking," which is the investigation period, and that is where advisory committees take place and advisory committees are the forum where we explore these issues. We can convene that either at Board direction, staff initiated; it can also be done because we have federal regulations we need to come into compliance with, or it can be legislatively mandated.

So I would say it does not require this Board to grant a specific petition in order to start moving forward in that process. I think that the advisory committee process and that pre-rulemaking investigation period is probably appropriate, because what that allows us to do is to look at the existing environment and the existing regulatory environment.

And that discussion should be within the

bounds of, "Are we still protecting worker safety? Are we adopting procedures that acknowledge the innovation but also maintain standards that are at least effective as our current worker safety standards?"

And I think that Chris' point to incident data should be a part of that discussion. I don't think that any safety professional would suggest moving forward with the rulemaking if we didn't have incident data.

MS. GREWAL: I just wanted to make a quick point on the data piece of it.

I think, as we look at different states who might have some sort of technology that's similar to this, that we are looking at data in an apples-to-apples and an oranges-to-oranges comparison. Are these state plans states? Are they under federal OSHA? And if there have been complaints formally by workers or other advocates, were they followed up with? What were some of the concerns that workers had in those situations?

And so making sure that when we are making these comparisons, they are apples to apples and oranges to oranges, because without that, you will have an incomplete picture around the data of the use and deployment of this technology in other states.

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MS. SHUPE: And -- and that's a critical point
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    to make, because California's agriculture is
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    significantly different than the agriculture that you'll
    run into in Kansas or what we saw in that video for
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    Australia, and we need to be cognizant of that.
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              I would also add that the pre-rulemaking
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    period isn't just limited to advisory committees. A lot
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    of times our engineers engage with the Division what
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    they've done in the experimental space, but they also do
    their own field surveys and they also go out and do
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    their own investigations above and beyond just an
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12
    advisory committee.
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              MS. STOCK: So, Christina, that comment -- and
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    thank you for that clarification.
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              So since we've been hearing about some of the
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    limitations of the experimental variance with Monarch
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    and the way that it was described -- so there's an
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    opportunity that there could be further investigations
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    with -- in this pre-rulemaking to try to capture the
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    kinds of things that we're saying are not being captured
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    there?
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              MS. SHUPE: That's correct.
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              MS. STOCK: Thank you.
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              CHAIR THOMAS: Do you have another question to
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    go to? Because I think we talked that one out.
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              MS. SHUPE: Yeah. Okay, so this one I'm going to
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    direct toward Mr. Miiller. So, Mr. Miiller --
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              MR. MIILLER: I'm in trouble.
              MS. SHUPE: But you've been prepped for it --
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              MR. MIILLER: Okay.
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              MS. SHUPE: -- so I expect a good answer.
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              So employers have argued in favor of the
    adoption of driverless equipment on the basis that labor
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    is unavailable at wages sustainable in the current
    market economy. Some manufacturers claim to be able to
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    minimize workforce expenses by having -- and, Jassy, you
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12
    touched on this -- a single operator responsible for as
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    many as eight autonomous machines in a field at a time.
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              Now, I think we've established that that's not
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    where we're ready to go, but in those driverless
    scenarios, you know, from the employer perspective, what
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    are reasonable measures to keep workers safe in this
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    scenario?
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              MR. MIILLER: So thanks for the question.
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    It's a variety of things. One is, when we're
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    talking about equipment that is being used when there's
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    nobody else in the orchard or the vineyard, that is one
23
    obvious way to protect people; when you're looking at
    that kind of application, make sure that no one is near
24
25
    the machine. And when we're looking at things like past
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application or those kinds of things, you have a huge worker benefit in doing that.

There's new research coming out of

New Zealand where they can actually take a robot

through a vineyard, for example. They can -- using

their optic information, they can -- you can get the

sensors that are detecting exactly where everything is

located for pest issues, right? Like, for a vineyard,

if you're looking for red blotch, right, or leaf

mold, you want to know where that is; you want to know

exactly where it is. So the grower gets a map at the

end of the day of the vineyard saying, "Here's where you

have problems." The next day they go in with a robotic

sprayer that sprays only those locations. So, again, you

have worker protections there as well. And, again, nobody

would be in the vineyard there.

Going back to the premise for the question, about the workforce in general, remember that the labor workforce isn't just a California problem. It is a global problem. People just don't like doing ag work anymore. It is hard work, and people just don't want to do it. They're aging out. The average ag worker in California is over 50 years old and there's not new people coming in behind them to replace them.

I talked to a grower in New Zealand -- and,

remember, California has a cost of living that is
30 percent higher than New Zealand. That grower in
New Zealand is paying \$46 per hour in U.S. dollars and
still can't find enough workers. So this is a global
problem and it's not an issue of, you know, a lack of
high-paying jobs.

And I mean that respectfully, Dave Harrison, because I've heard you say that before. But I just respectfully disagree. It's not an issue of not having good-paying jobs, because when you're paying somebody \$46 an hour and you still can't find them, people don't want the work. They want to do other things. They want something that's less taxing on their body, right?

And that's why I'd actually like to talk to the professor a little bit and get some feedback from you, because for agriculture we work closely with academia, UC Davis, Fresno State, Cal Poly, and looking at a technology growth in agriculture. And a big part of that is training our workforce. What are -- what does the future of agriculture look like?

And I know that your college is very involved in that, and when you're looking at technology like this, making sure that the workers are educated and trained is a big part of it. And to an earlier point, it is a transferable skill, so you're bringing more

people into the job because they're learning something new that isn't just going to be applied in an orchard or a vineyard. It's going to be something they can take to other industries.

So I think you piggyback on that, if you don't mind.

MR. MIZUNO: You're exactly right. We do a lot of training, primarily through our ancillary organizations. If you follow Fresno State at all, we have a center for irrigation technology. And as the technology in irrigation has changed, we bring all the irrigators in and train them to be more efficient, to be more efficient with the use of water. So it is a training process.

And I think you're going to see the same thing here, in that the operators have to be retrained, you know. They're no longer driving a tractor in a traditional sense, but they're -- I hate to say, but it's more like joy stick, you know, a joy stick or a video game jockey.

And the reason why I use that term is I work with the Air Force as well on their unmanned drones out there, and some of the biggest problems that they have is just the -- the quality of the people that come in and want to be a pilot. They find out that their best

pilots tend to be the video jockeys; that's where they've been playing all their lives. And so it's a different set of skills.

And the same is going to happen here. When you bring in new technology, you're going to have to retrain your workforce -- simple as that. But, you know, you've already made the comment that it's going to be higher-paying jobs, and that's good. It's upward mobility and, you know, the university's all for that.

CHAIR THOMAS: Dave, you had a question or a comment?

MR. HARRISON: Yeah. I just want to follow up with -- with the comments that were just made about retraining your workforce. And we hear this a lot -- excuse me -- about retraining your workforce. And right now, the way we see it, you have a tractor operator who, when he's not running the tractor, he jumps off and he jumps down in the ditch, he's laying pipe, he's doing whatever he has to do to keep that farm working, because, God knows, the farm -- a farm owner can't afford to have guys sitting around on a tractor waiting for someone to get other work done so that he can continue running the tractor, right? We know that.

Now we're talking about retraining our workforce to become essentially engineers. We keep

hearing this technology, "We're going to retrain our workforce for folks that are going to be running these computer systems." Now, you're going to ask that same workforce that; when they're not running that computer system, to jump down in the ditch and start laying pipe.

So think about the -- it's almost, to me, like we might be painting ourselves into a corner with the labor shortage issue that we keep hearing about, that you're going to take a part of your workforce and completely push them into the technology corner and eliminate them from the rest of your farm operation.

And so I just wanted to add those comments and make everyone mindful that, you know, retraining our workforce isn't the end-all/be-all answer to this issue.

MR. MIILLER: To be clear, I think you actually kind of made my point for me here a little bit, because when you -- when you look at the workforce available and you look at the demand for workers, right, we don't have enough people to do the job, right?

So what you're talking about is creating something that's going to bring more people in, right?

So if you have now created a technology that's available for people to -- in these new jobs -- the person who was doing that tractor can choose whether they want to do that new job over there or they can do other work in

agriculture, where we can't find enough people already.

So it's not -- no one's being replaced, per se, because we just don't have enough people already. So you're looking at trying to find ways of bringing new people and giving them a new marketable skill and going in that direction.

MR. CAFIERO: Excuse me, just a point of information; I was told this panel was about safety, and shall we stick to safety, or -- I feel passionately about creating --

CHAIR THOMAS: I was going to say, this can go far about as far as you want it to go.

MR. CAFIERO: I started two companies in the state. I feel passionate about being an employer in this state. I feel passionate about jobs. I care deeply about the people on our team. And I'm happy to have that conversation, but if we bring it back to safety, it might make sense.

The questions was about what labor -- I think

-- the prompt I wrote down in my notes was, "What safety

measures are reasonable?" And when we think about this, at

John Deere, there's, you know, like, departments for

specific things. And so I think the woman that is our

safety -- she runs the safety team for our project, which is
autonomy in orchards.

and I want to make sure my words are correct. When I think about safety, there's really two categories. One is product safety, which, as a technologist, I feel qualified to talk on the other's operational safety. Operational safety is probably what this Board is used to. These are things like mandatory—like, training for users; this is mandatory maintenance schedule; this is logging and audits for machines; this is emergency procedures for when accidents do happen. We need those in place. This is the same as you would have for a tractor or a sprayer or a piece of harvest equipment or anything else. We need—we need operational procedures in place to make these things work properly.

From a product perspective -- and this is closer to my background as a technologist. When you think of autonomous systems, there's -- there's three or four components -- three or four categories of components, you know, and we can break it down in its infinity components or its four, I don't know, one of the two.

The first category is perception sensors and, you know, these -- these are things you can see on YouTube, if you just, you know, Google it or whatever.

We have categories of passive sensors. These

are -- these are sensors that work like our eyeballs and take energy from the world and translate that into information. So this is your computer-vision cameras, your thermal-image cameras. And then there's a whole -- and those -- those are fantastic in some situations.

And then there's a whole other category of sensors called active sensors that actually shoot energy out in the world and re -- bounces back. And these are what folks are familiar with, like radars, for example. And you probably have those on your car. If you have any active cruise control or anything like that, you're familiar with radars. And then there's lidars, which are like radars on steroids. They're a gazillion times more powerful and used in different situations.

And so we have this array of different sensors we can use. And really smart teams use them differently. We have active conversations inside of our team about what's the best combination of sensors to use. There's not broad agreement in the industry around what's the best autonomous sensor system. We need -- we need a regulatory board to define requirements for that system that we can then build to. That's where -- that's where, you know, regulators come in.

And in addition -- and I see the professor is going to correct me on some spots here -- we got to

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compute to process that. A computer's generally on
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    board and it's generally redundant. And there's
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    standards we use in aerospace, you know, defense
    applications, drones, to make sure of redundancy, and
 4
    then there's a whole category of sensors.
5
 6
              And I think this is what my peers are most
    concerned with, is how do we diagnose the health of those
7
8
    sensors? And it may be surprising to folks that error
9
    detection is probably where we spend our most time.
    When sensors are working perfectly, everything's great, and
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    that's the happy case. We don't design for the happy case.
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12
    We design for the cases where things are failing.
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              How do we know that the brakes on the tractor
    have failed? How do we know that we've lost
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15
    localization? How do we know the tractor thinks it's in
    one place, but it's actually in another? This is
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17
    actually where we spend 90 percent of our time, and I'm
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    excited to engage on a conversation about that as well.
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              MR. MIZUNO: Okay. Now, I'm not trying to
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    correct you. Sorry to disappoint you.
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              MR. CAFIERO: That's all right.
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              MR. MIZUNO: Again, I want to make two points.
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              I would assume that you could, more or less,
    choose from the suite of sensors that are well suited
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    for the type of operation you're going to be doing.
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when you're working with people in a collaborative setting, you're going to have a different set of sensors. Say, you retune your lidar so it's near -- near sensors as opposed to looking 30 feet out.
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The other thing is, in terms of the health of a system, you're going to build redundancy in there. I know you've already looked at that. So I just want to make that point clear that it's not a single sensor that's going to fail. It's not a single piece of software that's going to fail. If something does fail, there's probably going to be a redundant system in there to pick up. And then the overall system management is probably going to alert the operator, too, "We've got a problem here," and if it's serious, it'll shut it down. If it's a minor issue, at the next scheduled maintenance, bring it in and we'll repair that.

So that's all I wanted to say.

MR. CAFIERO: Okay. Go ahead. Sorry.

MS. GREWAL: My comments will be focused as if the autonomous vehicles are with workers, because we represent ag sites with workers. That is a labor union. So I apologize in advance, but I wanted to make it clear that my comments are specific to workers on ag sites.

And it's just going back to the original question around safety operators watching autonomous

tractors. We think in this scenario that the only way to guarantee safety is by having a worker on every tractor.

And that's because we know technology fails.

It will fail at some point. We have to build the worker-safety infrastructure of the future around this unavoidable fact. It is not reasonable to expect that workers on the ground in a field working on or near an autonomous tractor can be kept safe, especially when one operator is dividing their attention between eight different pieces of heavy-duty machinery.

We talked about fatigue earlier. Well, that safety operator is also sensitive to fatigue, right? And so it's not an autonomous person watching autonomous tractors. What if multiple tractors at once set off safety alarms? How is one operator supposed to trouble-shoot multiple different safety alarms at the same time? How do they know which one is a more dire situation if it's just maybe detecting that, "I need to stall because of a lack of connection," right? Or is it someone that hit -- hit a person and so therefore we need to respond? This person's supposed to do all of these things remotely without being able to be on the site and observing all the different facts that are happening at that site.

I talked about, earlier, about how we represent salad workers and how they're on and near the tractors. I think another thing to point out there is that workers at some point have to take bathroom breaks. How is an autonomous tractor supposed to know, "Oh, I came off the tractor because I'm on bathroom break?" What if, in the course of their work, they fall off the tractor? What happens then and what systems are in place to protect workers in those situations?

The last thing I will just mention is that agriculture doesn't have a great track record of maintenance for all their machinery in our experience. We have significant concerns with the sensors and cameras that will get knocked off of alignment or fall into disrepair and won't be properly maintained with an eye to maximum visibility where workers could be.

And I think, for us, what if a sensor needs to be fixed but that employer doesn't have the ability to fix it because it's cost prohibitive? Do they continue to move forward using a autonomous tractor that doesn't have all the proper safety features up to date? What do they do in that situation where they've invested a ton of money into an autonomous vehicle but then aren't able to make the necessary safety adjustments that are intended to protect workers?

And then I know this is off the safety conversation, but we would love to pilot a \$46-an-hour farmworker job, so if you're interested, please let us know. We'd love to see what they would do.

MR. MIILLER: I applied as well.

But if I could answer a couple of those things real quickly, though.

One, relative to the maintenance of the machine, right? I've heard that assertion before. You have to remember that, the example that I gave, where you've got the tractor going through and it's detecting the diseases and it's then creating that data. That only works if the sensors are operational and functional. It doesn't work if they're not being maintained.

So that assertion just goes to assume that some grower's going to invest all that money and then say, "Eh, I don't need that; I don't want to bother taking care of it, and I'm going to get bad data and I'm going to spray stuff where I don't need to spray it and disease is going to take over the vineyard and things are going to die." That's just not the real world. That -- that assertion doesn't fit here.

Then I'm more with the driver; there's always a human element of a mistake, right? So if you've got

one person sitting on a laptop operating that machine,
then you've got another person sitting onboard that
tractor operating the machine, they've got to be in
constant communication. You've now increased the
likelihood of human error by a hundred percent. You've
doubled the change for human error.

And it's better if you take that, that issue off the table by letting the machine be operated as it's intended. And that's with all the sensors and all the protections in place, you actually have a machine that is safer without the driver onboard.

MR. CAFIERO: I jut want to jump in. Like -truly, I'm grateful for these concerns. This is -- this
is fantastic. I really appreciate the chance to have a
dialogue about this.

It's underscored to me that maybe -- I might get in trouble with my employer. I would love to host folks with these concerns and explain a little bit more about how the technology works.

I mentioned these four different types of sensors. So keep in mind traditional cameras are the only ones that work like our eyes do. There's other sensors as well, like rotors and lidars that work without any light at all. They can detect objects in zero light conditions, which is really remarkable and

way better than a human ever could.

There's thermal-images cameras that only detect heat, completely independent of light, and solely look for the heat signature of humans.

There's -- I'm reflecting on the data that we have internally, and we have an incredible number of pictures of humans in fields. And there's some easy cases, but most of the cases, too, are the machine caught a human and you need to look for five or ten seconds to find the human in the image.

These computers are much better at detecting humans in certain situations than humans are. They don't get tired. They don't get bored. They don't look at their phone. These are tremendous enhancements to humans. We call them superhuman features. It's -- it's truly remarkable. I look forward to sharing this with you.

And I'd like to come back once again, like, just to really, like, beat this point to death. The concern around when sensors fail is the primary concern.

It's, "How do we know this machine isn't working properly?"

And we spend a tremendous amount of time there. This is

-- this is really exciting. I think we have a lot of common ground here.

MS. SHUPE: So I want to -- I want to

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interject right now, because I feel like we've really
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    hit our stride in this discussion and -- but we do work
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    for OSHA, and it is time for my staff to take their
    30-minute break, so I'm going to give you ten minutes to go
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5
    ahead and wrap up the discussion and then we'll bring
    the panel discussion to an end. But thank you all.
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              MS. KENNEDY: I just want to speak real
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    quickly to tag on what you said. I hope it won't get
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    you in trouble with your employer, but I think it's
    really important for the industry to reach out to labor
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    and address their concerns directly and, you know, in a
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12
    very open way.
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              MR. CAFIERO: We work quite closely with
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    farmworkers, and I was told coming into the panel, "Hey,
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    like, the labor you think of is different than labor
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    you're going to talk to." But we work quite closely with
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    farmworkers every single day, and I'll share their
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    champions for what we're doing.
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              MS. STOCK: Can I just interject --
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              CHAIR THOMAS: I'm going to say -- I'm going
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    to say --
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              MS. SHUPE: Any closing thoughts?
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              CHAIR THOMAS: Oh, sorry. I'm just --
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              MS. STOCK: Well, I was --
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              CHAIR THOMAS: Well, go ahead, Laura.
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ahead.

MS. STOCK: I was -- I was just going to say a

thank you, Nola, for that comment.

And I just want to underline that working closely with farmworkers directly given, you know, the risk that people are not going to be speaking freely is not going to be the same as working with organizations that represent those communities. And there are both unions that represent farmworkers as well as really important community-based organizations and worker organizations that are representing farmworkers that can help them be more willing to contribute to this conversation, more able to -- so I just want to underline that that voice needs to be heard in these conversations. Thank you.

MR. YAP: I just wanted to add a final thought. When data's gathered for -- for -- for human, avoidance -- I pulled up data from 2017 through 2022 for California tractor fatalities, and there were 14 fatalities related to agriculture, and nine of those were related to being crushed or crushed between a tractor and a gate, or being run over by a tractor.

So I just wanted to emphasize the importance of data where workers are working in conjunction or near tractors. They're very different than tractors that

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operate in the next four largest agricultural states
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    like Iowa, Minnesota, where the majority of
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    agricultural is soy and wheat and grains and dry peas.
    The agriculture in California is vastly different and we
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 5
    need to concentrate on -- on specific regulations for
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    tractors working with -- workers with tractors in
7
    proximity.
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              Thank you.
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              MS. GREWAL:
                           And just on that, I'd stress the
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    need to do it at different times in the day. A lot of
    the work now is happening at night, and I think that is a
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12
    totally different dynamic than during the day. So
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    making sure that we're testing that throughout different
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    types of light periods, too.
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              CHAIR THOMAS: Any other comments by anyone?
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              MR. MIILLER: I just want to thank the Board.
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              CHAIR THOMAS: Thank you.
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              MR. MIILLER: Very much. I think it's
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    very informative and I appreciate it. Thank you.
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              CHAIR THOMAS: And I was just going to add --
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    oh, go ahead. Go ahead.
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              MR. CAFIERO: Did I misunderstand? Is there
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    time for public comments too?
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              CHAIR THOMAS: Yeah.
                                    After --
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              MR. CAFIERO: Will we have a chance to respond
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to those or is that just the Board?

CHAIR THOMAS: We usually just listen to public comments, yeah.

So I just wanted to add, you know, our charge as the Board is to keep employees as safe or safer, and that's what we have to do. And doesn't really -- nothing else really matters. It's like, okay, are they going to be safer with the automated equipment around or are they not going to be? And so that's kind of -- that's the question. When you get to the very end of it, that's the question.

And if we get to that point, yeah, you know, those things will probably come to fruition, but that's -- that's what we have to do, is discern whether it's safer or not. And that's why we have all these -- that's why we have all the people that work for OSHA, the Division, Standards Board, that's -- that's what they do, and then they give us that information to decide if it's -- if it's worthy or not.

So -- but it's -- it's definitely worthy to keep employees safe and make sure that everybody who goes to work gets to come home. And, you know, and me and Dave have been through a few things where guys didn't get to come home and it's -- it's horrible. It's a terrible thing. So that's what we have to do. And I

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know you guys all agree with it; that should be done.
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    So that's my final comment.
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              MS. KENNEDY: Is it too premature to entertain
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    a motion of any sort or not?
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              CHAIR THOMAS: I don't know.
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              MS. SHUPE: So we -- we have actually a couple of
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    comments scheduled --
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              MS. KENNEDY: Oh, okay.
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              MS. SHUPE: -- as Igino mentioned.
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              But at this time we're going to go ahead and
    break for 30 minutes and allow our staff their breaks
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12
    and allow everybody else to grab something to eat.
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    I appreciate everyone. I know this is longer than
    our standard Board meetings, so I appreciate your
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15
    time and attention in sticking with us. We'll be back
    in 30 minutes at, Dave, would you say 2:30?
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17
              CHAIR THOMAS: Yeah.
18
              MS. SHUPE: We'll be back --
19
              CHAIR THOMAS: Yeah.
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              MS. SHUPE: -- at 2:30 to accept public
21
    comment on the panel discussion and possibly a motion.
22
              CHAIR THOMAS: And I really want to thank all
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    of our speakers here that usually aren't up here. Thank
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    you very much. It's been very -- very good, very
    enlightening for all of us. So thank you, guys, very
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    much.
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              Okay. So we're adjourned --
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              MS. STOCK: Christina, wait, wait.
              MR. HARRISON: (Unintelligible.)
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              CHAIR THOMAS:
                             Sorry.
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              MS. STOCK: Yeah. Go ahead, Dave, I think --
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              CHAIR THOMAS: Oh, no. Go ahead. Go ahead,
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    Laura.
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              MS. STOCK: (Unintelligible) same question.
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              CHAIR THOMAS: Or Dave.
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              MS. STOCK: Oh, no. I think we just want to
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    know whether we should exit Zoom and go back on WebEx.
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              MS. SHUPE: Ah. So you can exit Zoom now and
    rejoin WebEx, because when --
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15
              MS. STOCK: Okay.
              MS. SHUPE: -- we come back, we'll be back in
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17
    public comment. Thank you.
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              CHAIR THOMAS: Isn't that always the question?
    All right. All right. We're adjourned.
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20
               (Break)
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              CHAIR THOMAS: Good afternoon. We are back in
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    session.
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              And at this time, if we have any in-person
    commenters who want to speak on the panel discussion,
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25
    please come up to the podium and state your name and
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affiliation, please, for the record. Thank you.
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 2
              MR. JERGENS: Yes, sir. I had it filled out
3
    and I couldn't find it.
              UNIDENTIFIED SPEAKER: (Unintelligible.)
 4
 5
              MR. JERGENS: All right. Can I fill it out
 6
    when I'm done? All right.
              Jeff Jergens, the Association of Equipment
 7
8
    Manufacturers.
9
              Again, I just want to say thank you for this
    panel and for the Board for putting this panel together.
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    I think it's a huge step forward. I just want to
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12
    emphasize a couple things that came up during the panel,
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    if I may.
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              You know, connectivity was mentioned. I think
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    all the manufacturers have made sure that -- stress that
    signal is not a requirement for autonomous machinery to
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17
    be working safely in the field.
18
              Some hypothetical concerns were brought up
19
    concerning remote operators where there's real issues
20
    that autonomous equipment can address now, whether it's
21
    through poisonings or rollovers or some of those other
22
    hazards that come along with agriculture.
23
              We've -- it was also brought up -- many
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    hypothetical near-misses with autonomy. If we're going
25
    to record near-misses, are we recording those with
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operated machinery currently, as a comparison?

And I want to back up a little bit. I don't want to sound argumentative at all. Of course, the goal is for safety all around.

And a little bit of background from me. I was an equipment operator for 20 years, so I came through this and I'm where I'm at because I love equipment and I love this industry. So just I've been on the ground and I've been on this equipment and I understand it very well. So I just want to make sure that I am -- I am with these people that are a part of this industry, and it's important to me.

And, as Nola had mentioned, if there are operations with no workers, why wouldn't we put some of this machinery in there to start getting that extra data on it? The reason is because the regulation, as it's currently written, does not allow that, right? So we need to get past that point so we can start getting those equipment in the field.

And it's important to stress that autonomous equipment is not an answer for all. It's a tool in the toolbox and it needs to be applied accordingly, right? You want to apply it in dull situations where the -- the action is very repetitive, right? Snowplowing is a perfect example for -- and snow removal is a great

place to put autonomous machinery, you know, a sprayer running through an entire orchard back and forth; that's a perfect place for autonomy.

So just keep in mind that it's -- we're not going to go -- and there's a range of automated features in autonomy. It's not an all-or-none, either. There's lots of different tools for different applications, so let's keep that in mind.

But in order to get any of those tools into the field, we need to address the regulation, which, according to -- as Chairman Thomas said, the staff are the people that he listens to, that you rely on as the Board to give you instruction. And that staff has asked on multiple occasions to establish an advisory committee. So if that is who you rely on to give you your guidance, please, please do that.

Christina Shupe mentioned pre-rulemaking investigation, perhaps, instead of an advisory committee. That is an option. But we have to do something. The regulation, as stated, is 46 years old. It can not apply to what we are doing today.

There is some -- Dave mentioned putting monitors back in the ditch. They're not going to want to do that. I'm sorry that you missed out on the Ag Expo, Dave, but there was a manufacturer there that

specifically had his equipment there. And he's pulling
-- instead of the guys spraying, he's pulling those guys
directly onto his tractor. So he's -- he's -- there's a
perfect example of elevating workers, right? They're
not pulling -- he's had owners say, "Hey, I've got to get
tech guys to run these machines."

He's, like, "No, I want the guys that were doing the spraying, that understand the work, getting on the machines."

And so we're not talking about, you know, bringing techs in that don't want to get dirty. We're talking about guys that are getting dirty that are being elevated, but still know the work and can do that work. So I think that's a great compromise there.

It was mentioned that, you know, how is a machine going to protect -- if we have operators on autonomous machines and that operator falls off, what's that machine going to do? I think that's a perfect argument right there for not putting operators back on the machines, right? Let's not put them in a situation where they may fall off. That defeats the purpose of having an autonomous machine.

It was also mentioned we need to concentrate the data on these -- from these crops. All of the data that I mention -- I was kind of surprised. I mentioned

a lot of data when I spoke earlier and I heard several people say, "We don't have data." I provided you with 58 three-year studies of data that we have available and we can give you. But equipment manufacturers are scared to share the intimacies of that data because currently the regulation does not allow using this equipment.

So the comments are I'm going to put a target on my back or I need to fly below the radar so that I don't get in trouble. So we need to address the -- you're saying, We need more -- we need people to work illegally to give us this data, which isn't fair to operators and manufacturers.

And I mentioned at the Ag Expo tour the ISO 18497 standard is the standard that governs autonomy. And many, many people mentioned that they would like to learn more about that standard, because that could really answer a lot of these questions that came up today.

Christina mentioned that, you know, in order to do that, that would have to be advertised and whatever. So perhaps the advisory committee is a place where people can hear that standard, understand that standard that has been put -- it's a consensus standard put together by international experts in order to make this equipment safer.

And I think if staff and Board and those 1 2 interested could hear what's going on with that 3 standard, you know, where this regulation is 46 years old -- an ISO standard goes through systematic 4 5 review every five years, and this standard went through 6 a review almost immediately when it was done because of 7 the rapid pace of technology. 8 And then some comments were made about, you know, "What is Year Zero to 100 about, you know, 9 10 how safe is -- if we can cut rollovers by half, if we can cut deaths by half, would you think that that's a 11 12 good application for putting this equipment in?" Right? 13 If we can decrease deaths by what we've got now instead 14 of hypothetical maybes down the road, isn't this a good 15 way to put autonomy. So, again, manufacturers want to work 16 17 together. Again, staff has recommended, academia has 18 recommended, an advisory committee. Growers and 19 manufacturers are requesting an advisory committee and 20 labor would like to be more heavily engaged, and an 21 advisory committee is the perfect place to do that. 22 that is my request from the manufacturers. 23 And I thank you so much for your time. 24 CHAIR THOMAS: Thank you.

Any more in-person comments?

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Good.

MR. POPE: Thank you again for having this opportunity. I'm Evan. I'm from the company Sabanto. We make retrofit kits for autonomous tractors.

Before I kind of dive into my --

MS. SHUPE: Evan, can we please have your last name for the record, if you don't mind?

MR. POPE: Of course. Pope, P-o-p-e.

Before I dive in, I'd just like to say we -we've offered on numerous times to OSHA our data that we
collected in states like Texas, Iowa, Illinois, and
Florida. We work with U.S. military, so we'd love to
have a conversation about how we approach security and
safety around individuals.

So farming is a dangerous job and autonomy makes it safer. The U.S. Bureau of Labor Statistics states that agriculture is one of the most dangerous jobs in the United States with 26 deaths per 100,000. Compare that to police officers, which is 14 deaths. Most of these deaths occur in or around the tractor itself.

Autonomy removes the need for these operators to be in these dangerous situations and eliminates human error. Autonomy will also continuously improve as technologies improve with it. So lidar,

radar, sonar, Bluetooth even -- these are all things that can sense people in the field and we are -- you know, the tractor will then take corrective action once it knows these -- we're using these technologies.

Today, you know, workers are actually exposed to numerous chemicals that are known to the State of California to cause cancer. One of the most popular herbicides used today actually has the side effects that include heart failure, liver failure, lung scarring, coma, and seizures -- and this is if you survive the initial exposure. Autonomy makes workers safer by removing the need to be exposed while applying these actual chemicals.

Improved maintenance, which was talked about quite a bit today, will benefit workers. These new tractors are equipped with advanced monitoring systems that can detect maintenance issues in realtime. So the farmer can make, you know, quick decisions to stop the tractor or we will -- the autonomy systems will stop the tractor before anyone has to make a decision and take corrective actions to make sure these tractors are operating in top condition.

Having a well-performing tractor also reduces, you know, burning -- reduces the amount of fuel you have to burn, which, you know, obviously, helps the

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environment and release of CO2.

Autonomy is safe and it is needed. It's our belief that, rather than reducing jobs, it could actually lead to an increase of job opportunities by making farms safer and more attractive to potential job applicants. California is -- leads the way in agriculture and technology, and we hope we'll have a chance to review Section 3441, Title 8, and love to be a part of that.

Thank you.

CHAIR THOMAS: Thank you.

So if there's -- go ahead.

MS. GREWAL: Jassy Grewal with UFCW.

I didn't feel it was appropriate to make this comment on the panel, so I wanted to make it in a public setting.

There was discussions about moving forward with an advisory committee process. And UFCW would express significant concerns about moving forward with a formal process like the advisory committee.

This morning we heard from several workers around the urgent need for a workplace violence standard and all the important work that's in front of the Cal/OSHA staff. And we think this would take away significant resources from something that should be

prioritized, like the workplace violence standard, and moving that along, since it has been in the process and in the works for seven years.

We also think nothing stops this Board from continuing to have discussions like we did in the public setting today, I mean, continuing these discussions throughout the year. But to jump from this to an advisory committee process seems like a significant jump, especially when we're missing critical data on the Monarch variance. I think there are critical pieces in there that are still needing to be met that we should work on first before we move into something so formal like an advisory committee process.

So I just wanted to express the concerns on behalf of the UFCW. Thank you.

CHAIR THOMAS: Thank you.

this conversation earlier today.

Any other in-person comments?

MR. LITTLE: I'm Bryan Little with California
Farm Bureau.

I wanted to say -- I guess I forgot to do the usual "Good afternoon, Mr. Chairman, Board Members, Agency staff," all that stuff. Yes, thank you.

Thank all of you for all the effort you put into having

And it seems like you're moving in a direction

where at some point we're going to have an advisory committee that, by the way, need not take away from anything else that the agency and the Standards Board is doing. It can -- a lot of other things are in line ahead of it. So I don't know that that's going to delay anymore some of these things that have been delayed any more than they already have been.

I think it's important to understand a couple of incidents. I'm kind of interested -- I'm kind of an amateur geek about naval aviation and aviation generally. And a couple of interesting things have happened in the last couple of weeks, last year or so -- and then, again, last couple of weeks, that I think are illustrative of a lot of what we're talking about here.

Last week, or maybe it was earlier this week, the Russian air force forced down an M29 Reaper drone in the Black Sea. A Reaper drone is about a \$70 million -- well, maybe \$50 million aircraft, something like that. And it's operated remotely by a pilot at one of several facilities around the world that the U.S. Air Force maintains for drone pilots.

We didn't -- we lost a \$70 million aircraft, or however much it cost, but we didn't lose the most precious and important and most difficult to replace

piece of that system, and that's the pilot, because the pilot wasn't on the plane when the Russian air force forced it down.

The other interesting thing that happened in January of this past year was an accident on the USS Carl Vinson involving a new F-35 fighter jet that suffered what they refer to in the Navy as a "ramp strike." Essentially, it means that it hit the back of the aircraft carrier, missed the retaining wire, and rolled off the front of the aircraft carrier and struck several sailors in the process and wound up in the ocean.

It managed -- nobody got seriously hurt. They managed to get the pilot out. He managed to eject, so he was fine -- a little bruised up, but he was okay. So in the long run, we wound up doing that and saving the pilot, saving all the crew, lost a \$90-million aircraft.

And as a taxpayer, I'm not so happy about losing a \$90 million aircraft. As the father of four, one of which might have decided at some point that they would like to serve their country in a capacity like that, I'm glad that everybody was safe when all was said and done.

But what's interesting about that and what's relevant to what we're talking about here is that the

Navy's guidelines for their aviators flying F-35s off aircraft carriers, they've developed automatic landing systems for virtually all the aircraft they operate off aircraft carriers now. And they strongly encourage pilots to use that automatic landing system at least seven times out of the ten that they land on the aircraft carrier.

Landing on an aircraft carrier is one of the hardest things that naval aviators have to do. When the weather's bad, it's even harder. In this particular case, the weather was clear, the sea was smooth, and he only partially implemented the automatic landing system and got behind it. Had he used -- the pilot used the automatic landing system in the way that it was intended to be used, he probably would have safely landed that aircraft on the aircraft carrier.

And so, mercifully, we did lose a \$90 million airplane, but we did save the pilot. But had he followed the guidance that -- the safety guidance that the Navy spends millions and millions of dollars and countless man-hours developing, we probably wouldn't have lost the aircraft and didn't put the pilot at risk.

So there are uses, important uses, for autonomous and semi-autonomous technologies and equipment of various kinds to the extent that we can

remove a tractor driver from the equation entirely.

Just to name one thing, we talk a lot about tractor

drivers and tractors being operated in the

presence of workers. It could be that there might be

use cases where we would not want to use automated or

semi-automated tractors.

and I don't know if there's any way to get this data, but it would be interesting to know how many hours tractors are operated in the aggregate in California and then how many of those hours are those tractors operated when there's nobody else around but the tractor driver driving the tractor. I suspect that there's a lot more of the second than of the first. And to the extent that you can use that tractor, at least in those cases and those situations, that will be a huge step forward for safety, I think.

I've talked to you guys before about the typical application of a tractor where the tractor is operated by a tractor operator making a pesticide application wearing a respirator and a Tyvek suit. If the tractor operation is not there and the tractor's being operated autonomously, you don't need to worry about whether its respirator is correctly fitted, whether it's got the correct cartridges on it, whether

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his Tyvek suit is fitting him correctly, or any of those
1
 2
    issues, because he's just not there. And that's the
 3
    safest possible place he could be -- or she.
              So I'm looking -- I hope that you guys go
 4
 5
    ahead and decide to impanel an advisory committee. I'll
 6
    be looking forward to participating on the committee,
    because I think we found out today there's a lot of
 7
 8
    issues that we need to talk about and figure out how we
 9
    can do
            this, because this technology isn't coming.
             It's
10
    here.
11
                So thank you.
12
                CHAIR THOMAS:
                               Thank you.
13
                So, Maya, do we have callers on the line?
14
                MS. MORSI: Yes, we do. First up is
15
    Trent Johnson with Raven Applied Technology.
16
                CHAIR THOMAS:
                               Trent, can you hear us?
17
                MR. JOHNSON: Yes. Can you hear me?
18
                CHAIR THOMAS: Yeah. Go right ahead.
19
                MR. JOHNSON: Great. Thank you, Chair Thomas
20
    and Board Members, for putting this panel on today. I'm
21
    happy to be here talking to this group.
22
              My name is Trent Johnson. I represent Raven
23
    Applied Technologies, which is a subsidiary of
24
    C&H Industrial.
25
              Raven is a (unintelligible) agriculture
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company and we released our first products over 45 years ago. We've been pioneers in technologies such as precision spraying, satellite-guided steering, and vision steering.

My role at Raven is product safety and compliance. In addition to those areas, my responsibilities also include functional safety and reliability engineering. My career has included a similar role in the nuclear power industry. Simply put, my career focus has been one of quality and safety. So I'm not here to sell you on the technology, but to assure you that we have a common goal of protecting farm workers.

The ag equipment industry prioritizes safety, not only because we want to protect our workers, but because it is our neighbors, our friends, our family that uses the equipment that we build. One of the ways our industry does that is to develop safety standards through global committees, which include representation from manufacturers, technology providers, universities, and government.

Our industry also works together in other capacities. This past November the Safety for Emerging Robotics and Autonomous Agriculture, or Safer Ag, was a workshop hosted at the University of Illinois that

brought together growers along with members of industry, academia and government to discuss all topics pertaining to the safety of ag technology, including rural connectivity, insurance, research opportunities, societal implication, worker safety standards, standards, regulation, and risk assessment methods.

It is the mission of our industry to provide growers with the tools needed to feed a growing population while ensuring the safety of anyone who may encounter our equipment. The task of collecting the data needed to accomplish this mission is immense. We must take measures to ensure that data is relevant, actionable, and verifiable.

To demonstrate the effect of safety of these machines, we must also compare the performance of our machines to humans performing the same tasks. This is critical, as it will establish a baseline for which machine data can be compared against. The scientific method requires control data, and this baseline data would be that control element.

To be certain, every manufacturer involved in autonomous agriculture has been collecting data, but to my knowledge, we have not been provided specific requirements from the State of California to compare our data against.

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We urge this body to consider working with
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2
    manufacturers through the proposed advisory committee to
3
    establish what this baseline expectation must be so that
    we can address these challenges head-on. Raven
 4
 5
    acknowledges that any update to this regulation must
 6
    be done so in a manner which protects workers while
    allowing farmers to maximize their potential to
7
    feed the world.
8
 9
              Input from all stakeholders is critical.
    Industry, growers, laborers, academia, and government
10
    must work together to make sure we get this right.
11
12
    Raven sees the formation of the proposed advisory
    committee as the best path forward to accomplish this
13
14
    goal.
15
              Thank you for the opportunity to speak today
    and for your consideration for this advisory committee.
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17
              CHAIR THOMAS: Thank you.
18
              Who do we have next, Maya?
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              MS. MORSI: Up next is Hernan Hernandez with
20
    California Farmworker Foundation.
21
              CHAIR THOMAS: Hello, caller. Are you with
22
    us? Hello?
23
              I don't think they're there, Maya. You want
24
    to go to the next and we can come back?
25
              MS. MORSI: Sure. Up next is Chris Zeitz with
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Fresno County Economic Development Corporation. 1 CHAIR THOMAS: Chris, can you hear us? 2 3 MR. ZEITZ: Yes. Can you hear me? CHAIR THOMAS: Yeah. Go right ahead. 4 5 MR. ZEITZ: Thank you, thank you. And thank 6 you, Members of the Board and panelists for your time today. I know this is a long meeting. I appreciate 7 8 everyone's thoughts and contributions. 9 Fresno County Economic Development Corporation is a recipient of U.S. Economic Development 10 Administration's Good Jobs Challenge and a partner with 11 12 the F3 Initiative in the Central Valley that was awarded 13 Build Back Better Regional Challenge Grant focused on ag 14 tech innovation. It creates pathways accessible to the 15 farmworkers that keep our region going and feed our 16 nation. 17 Earlier today I was on a call with one of the executive directors for a community-based organization 18 19 that represents and works with those farmworkers and is 20 partnering on both of our projects. And I know he 21 wanted to speak today, but I believe he had to leave the call early due to a prior commitment. 22 23 I am here to talk a little bit about the economic development arguments in favor of revisiting 24

Section 3441, Title 8, through an advisory committee.

25

While California leads the nation in agricultural production and technology, we are lagging behind other states and, indeed, other countries due to some of the limitations with our regulations.

Agricultural technology and autonomous agricultural technology represent a significant opportunity for investment in this state and, in, particular, in this region that produces so much of the nation's food, while at the same time suffering from 20 percent poverty rate and in areas poverty rate that reaches 40 percent.

I've also heard today about the importance of safety, and I would like to also highlight that, while a lot of the conversation has been very important, has talked about physical accidents that occur while using agricultural equipment, it's also important to remember that these vehicles do emit hazardous chemicals, and being physically on the machine makes you more susceptible to that exposure.

In 2022, agricultural technology start-ups raised over 2.6 million in venture capital investment, looking to California as a primary market to grow their businesses. In our region, again, a high-poverty region, a high-unemployment region, it's uniquely positioned to channel this investment on the heels of

1	unprecedented federal and state climate-smart ag tech
2	investments still to be pushed out to transform this
3	region's local economy, while at the same time having
4	\$100 million, give or take, in federal and state
5	investments, to upscale the workforce here and to
6	allow them to take full advantage of these opportunities
7	that are coming down, whether we like it or not.
8	Without new policy considerations, private
9	investment will not be able to come into this region and
10	to have those positive benefits.
11	Again, I thank the Board and we thank the
12	Board for your time in considering this important matter,
13	and would ask that an advisory committee be impaneled to
14	further review Section 3441, Title 8. Again, thank you
15	for your time.
16	CHAIR THOMAS: Thank you.
17	Who do we have next, Maya?
18	MS. MORSI: Up next is Anne Katten with
19	CRLA Foundation.
20	CHAIR THOMAS: Anne, can you hear us?
21	MS. KATTEN: Hi. Yes, good afternoon. Can
22	you hear me?
23	CHAIR THOMAS: Go ahead. Yeah.
24	MS. KATTEN: Hi. Yeah. Thank you very much,
25	Chair Thomas and Board Members.

I'm Anne Katten from California Rural Legal
Assistance Foundation and I appreciate the discussion
today and I've learned from it. But I remain convinced
that it isn't time yet to start an advisory process for
automated tractors, especially for use when any workers
will be in a field and the field is not secured.

I also think that convening any advisory process is premature because of the backlog of development of other important health and safety regulations currently.

I recognize that tractor operators face many safety and chemical exposure hazards that automation can partly prevent. But even if autonomous machines are used in secured fields where there are no workers, there'll be a need to manage the number of machines in the manner of operation to prevent pesticide drift and dust carrying silica and potentially Valley Fever spores from harming workers in adjacent areas, and there'll be additional lockout requirements, probably, for maintenance of these machines, because they're more complicated.

Sensors are great as a safety aid to a driver, but not ready, I think, to be relied on as a substitute.

And that's what multiple collisions of Teslas on autopilot with emergency vehicles have shown. Sensors,

like spray nozzles, can also be knocked off or out of alignment by vines and branches. And I continue to have concerns that safety sensors may not be as well maintained as those that are central to ag production.

With regard to retrofit kits, I'm not at all clear which manufacturer would be responsible for the proper installation or maintenance of systems like that, so it's another concern.

And, finally, I'm frankly very skeptical of the claim that the intention is just or mostly to use these machines when workers are not -- when workers are not in the field, because driverless tractor violations of section 3441(b) have at times been quite common for the field-packing operations which Jassy described today, and fatalities and very serious injuries have resulted.

In addition, the packing and sorting trailers are pulled behind the tractors, so I don't see how the sensor on the tractors are going to see the workers on and around these trailers, especially during night work.

So, again, you know, I welcome the discussion today, but I think we have to proceed very carefully and slowly and be mindful of our resources. Thank you.

CHAIR THOMAS: Thank you.

1	Maya, do we have any other callers?
2	MS. MORSI: Yes, we do. We have three more.
3	So the next one is Jake Winters from Monarch
4	Tractor.
5	CHAIR THOMAS: Jake, can you hear us?
6	MR. WINTERS: Everybody, I can hear you. Can
7	you hear me okay?
8	CHAIR THOMAS: Yeah. Go right ahead.
9	MR. WINTERS: Fantastic.
10	Thanks for the opportunity to comment and for
11	your patience during this important discussion. I'm
12	Jake Winters from Monarch Tractor, and I do all of our
13	government engagement and I've actually been involved
14	with the Monarch temporary experimental variance since
15	we started engaging with Cal/OSHA staff back in 2019.
16	I want to start with some information on the
17	temporary experimental variance, since it seemed to come
18	up several times during the panel and other discussions.
19	We're happy to join the panel next time and look forward
20	to continuing to provide all the data and guidance we
21	can to the Board and Cal/OSHA staff.
22	On the variance, the operations that are being
23	completed by the three Monarch tractors that fall under
24	the variance reflect the true and current state of
25	operations consistent with how they're completed on

non-automated tractors.

And to put a finer point on that, people are not in the field during most tractor operations, autonomous or otherwise, not during spring, not during flail-mowing or hedging. It's not safe to be in the immediate proximity of a tractor during most of these operations.

Furthermore, the variance explicitly prohibits our vehicles, the three Monarch tractors, from operating within the immediate vicinity of people. I understand that's the desire for some of the new data request that we've seen recently, but to quote the variance directly, when moving in forward or reverse, the tractor shall initiate braking to slow the movement of the tractor and come to a stop when humans are detected within 16 feet way in any direction.

And our applications -- the three -in grape crop during harvest time, where most people are
around tractors, that's really kind of the primary
time where these machines are up close and personal with
humans. The 16-foot radius is not feasible for us to
actually do any sort of meaningful operation.

I also want to provide some clarity. There's three stages of the experimental temporary variance.

And moving from stage to stage requires a sharing of

several data points as part of the transition and the approval from Cal/OSHA staff. So you can only move from the phases prior to the next ones with the approval from Cal/OSHA.

The data that we've been asked to share under the variance includes total distance traveled by the vehicles, total hours of operations in autonomous mode, collision-avoidance instances, instances where the tractor fails to initiate braking, and replacement of any components except for the replacement of in-kind resulting from normal wear and tear.

When we completed the first stage of the variance, we submitted data to Cal/OSHA for approval in late 2021. The data shared was as follows:

4,442.94 kilometers traveled, 589.57 hours of autonomous operations, 40,498 successful human detections and collision-avoidance instances with zero accidents, zero near-misses, and zero close calls.

We also shared, at Cal/OSHA's request, imagery of humans and the obstacles being detected by the collision-avoidance technologies. We answered more than 80 questions by email and other forms from the team, ranging from how farm operations and implements work to test results and more. We answered 100 percent of Cal/OSHA's questions.

And then Cal/OSHA approved Monarch Tractor to move from Phase 1 to Phase 2 in variance, which now allows us to run autonomous operations without an operator on board, again specifically under the variance and with those three vehicles.

It was mentioned during the last petition and again today that the variance should be completed before we make any additional progress on the topic. As a refresher, there are only two ways the variance is completed. There's a Title 8 rulemaking process that begins or the variance simply times out in 2027.

So there's not a clear mechanism. And if we are to wait and we are having this be a precursor to the regulatory rulemaking process, we're talking about waiting until 2027 without any sort of other mechanism to move this forward.

To wrap up, some of the comments today show the deep misunderstanding, if not total fabrication, about the current state of the technology. Saying things like, "Remote operators won't have any idea why the machine is stopped," or it being totally unknown to the operator what is happening with the machine and that they're having to make these decisions, is simply not true.

When a safety feature is triggered, the

vehicle immediately goes from operating at its normal
speed of two miles an hour to zero miles an hour -- comes
to a complete stop. The vehicle sends a notification,
including why it stopped, provides a 360-degree
live-camera view of what it sees, and waits for further
instructions from the remote operator.

If the operator somehow is still unsure why
the vehicle stopped and reboots the vehicle, it's not
going to continue moving; it's simply going to come
back with the exact same error, notify them, and it will
not move until the issue is addressed. And that's
something that we've done in our software layer.
This is specifically referring to Monarch technology,
but after working with AEM and some of our other
colleagues, I can speak generally, most paradigms fit
these types of behaviors.

We also hear things like, "What if multiple safety alarms happen at once? How do they -- how does a remote operator triage multiple vehicles?"

Again, the vehicles are coming to a stop. The operator does not need to stop the vehicles when a safety alarm happens. It notifies them. The vehicles wait for additional instructions from the remote operator.

I want to be careful we're not creating

fear-mongering or any sort of other things. I want to speak strictly to the current state of the technology.

The last one that I heard was, "What happens if a key piece of safety equipment goes down, a sensor or other piece of hardware? What if the operator decides just to run it anyway?"

They literally will not be able to operate the equipment in that scenario. The software is constantly monitoring itself. And you heard things like "Heartbeat" and some of the other industry terms today, but essentially the operator will not have the ability to start the machine. The machine will not allow it to move forward unless 100 percent of the components are up and operational and 100 percent of the software is operating normally.

We've done outreach to labor unions in a variety of formats, including in-person demonstrations at the World Ag Expo and across a variety of technologies and applications and showcasing of those. They say simply, "We don't ever see a world where there's not a driver on board the tractor, despite some of the safety benefits that's doing so."

We're asking you, the Board, to help bring labor, the industry, and all the other relevant stakeholders together so we can have a discussion, not

based on fear-mongering, but based on actual data. 1 2 these quantities will be allowed -- will actually give 3 us enough information to move forward and have a meaningful carve-out to say this is when and how we will 4 5 move through the process. 6 Like Dave Thomas said, this needs to be about worker safety. We can start in places where there are 7 8 already no workers, like those operations we talked 9 about earlier. We can say that autonomous self-propelled machinery can not be used within "X" feet 10 of workers or within these other parameters. Let's not 11 12 try to eat the entire elephant at once. It's not a binary 13 decision between full autonomous operation for every 14 industry and every operation and every crop or no 15 autonomy at all. We're simply trying to have a dialogue 16 to understand how and where farmers can deploy these 17 technologies, because there are very clear safety 18 benefits. 19 Thank you for your time. CHAIR THOMAS: Thank you. 20 21 So who do we have up next, Maya? 22 MS. MORSI: Up next is Mitch Steiger with 23 California Labor Federation. 24 CHAIR THOMAS: Mitch, are you there? 25 Thank you, Chair Thomas MR. STEIGER: Yes.

and other Board Members and staff. Sorry to double-dip, but we do have a lot to say about autonomous tractors and appreciate the opportunity to speak today.

So we definitely would like to respond specifically to this idea that's been floated of going to an advisory committee. But before we do that, we'd like to respond to some of the things that have been said here today throughout this discussion that has covered a wide range of topics associated with autonomous tractors. And that's a good thing. We definitely encourage discussion of these topics.

But we would really focus for a second on this argument that this is about safety. We've heard this over and over again from the proponents, that this is about safety, this is about keeping workers safe; therefore, you, the Standards Board, should move in this direction.

Frankly, we see this as a chilling argument that because a job is not risk-free we should just eliminate it. The reason it is so scary is that that same argument can be applied to every job. There is no risk-free job out there. And if we look at all of these and say, "You know what, we can't eliminate all the risk; we need to look at getting rid of these," what does that look like on a broad basis? None of us are

safe. The technology is coming for all of us. And if that's a conclusion that we draw and then start making decisions based on, it's terrifying to think about where that leads us.

And the response to that argument seems to be something along the lines of, "No need to worry; we're going to upscale these jobs; we're going to put workers in air-conditioned rooms with joy sticks and everything will be fine."

Well, if that were to happen, that would be the first time that's ever happened in the history of automation that, sure, for a small number of workers, when technology eliminates a job, other jobs are created. They are sometimes higher paying, sometimes much higher paying, doing maintenance or design or control of these machines, but never is it the same number of people.

That's kind of the point of this technology. That's why you have venture capital companies pouring tons of money into this idea, because the idea is that down the line we're going to save a lot of money by not paying workers to be here. And, frankly, anyone who's taken an honest look at this issue knows exactly that's what this is all about, and that's what's so concerning for us.

And we've also heard over and over again that it's somehow inherently safer to have a machine doing work that a person can do. And, you know, there's all sorts of data all over the news every day about how not true that is. The technology fails all the time. We've all got plenty of examples in our own personal life.

If I could take a quick page from

Bryan Little's comments and tell a quick aviation story,

my friend was a commercial pilot for Alaska Airlines and

he told me about a lot of near-misses that he was

involved in. And there was one where he was taking off

in a plane and he could tell, as he was starting to

accelerate, the plane wasn't accelerating as fast as it

was supposed to. And he had to make a split-second

decision about whether to abort the takeoff and wind up

in the trees or keep going, potentially not have enough

speed to take off and then maybe the plane crashes.

And he decided to go forward. He thought he had maybe enough speed to take off, and did. And, you know, it turned out to be the right decision. It was some hydraulic issue. The plane landed fine and everything was okay. But who knows what an autopilot would have decided? He told me that if he had aborted the takeoff he probably would have killed half the people on the plane, and that's what he was trying to avoid.

Maybe a -- you know, automated decision-making system would decide that half is better than everybody and would have made the wrong decision in that case.

There are examples over and over that we heard in all sorts of hearings and issues related to this about all the different ways that a human operator can sense risks that a robot can't, that an ADS can't.

And that's why we continue to hold firmly to this position that in the interest of worker safety, we need a human operator on these machines. This technology needs to be designed around a person so that the best strengths of a person can be combined with the best strengths of technology to keep workers safe, that eliminating the human being doesn't make any more sense than eliminating the technology, and we need to go forward with that in mind.

And, also, with that in mind, we keep hearing this argument that we're falling behind other states. And, you know, to that we say, "Good." If other states are moving forward without enough data that this is the best decision for worker safety, we want to fall behind them. All sorts of decisions are being made by other states these days that we may not agree with. And we very much don't want to look like that, and we strongly believe that this is one of those cases we're doing the

right thing by being careful and moving slowly and making the right decisions for worker safety.

And we would also really stress to the Board that the function here is worker safety, that whether an industry is pouring a bunch of money into an effort, you know, it's not our responsibility to worry about that.

Our responsibility here is to make sure that workers are kept safe.

And with that in mind, the process here is a little concerning to us. So this idea, this petition or related petition, has been floated to the Board multiple times. It's been rejected multiple times, one of which was in December, less than three months ago.

And here we are now talking about doing exactly what we decided not to do, what the Board rejected in December, in kind of sort of approving the petition and sending it to an advisory committee.

And nothing has changed since December, other than, you know, we have not done what that decision said we needed to do, which was get the data that we need, learn more about this. I pulled up the decision. I won't bore you all by reading through it, but trust me when we have not met the conditions laid out in that decision about what needs to happen before we revisit it.

And, frankly, we've heard a lot of very concerning things about the Monarch variance. I'd be very interested to hear what Cal/OSHA has to say about the testimony that was just offered by Monarch, as we've heard a very different story about whether or not Monarch has been living up to their end of the temporary experimental variance.

And in our eyes, the second that variance was deviated from in any way, it should have gone away, that this was a deal that was struck between that company and state regulators that we have heard a lot of rumors that it's not being met. And if that's the case, the variance should go away and this -- this issue should be put on pause until we know a whole lot more than we do right now about whether or not it's safe.

So we would just urge the Board to stick with the decision that it made very recently, that we have this variance that's out there. Nothing has changed since the last decision other than, frankly, some concerning things about whether or not the experimental variance is being met.

And we should stick with that. We should not go to an advisory committee in any sort of official way. We've never shied away from a discussion on this issue. We're happy to meet with whoever, whenever, to discuss

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But moving down the road of rulemaking so soon
1
    after this petition was rejected, when nothing
3
    substantive has changed, we think would be a very
    premature move and we would urge the Board not to do
 4
 5
    that.
 6
              Thank you.
 7
              CHAIR THOMAS: Thank you.
8
              Who do we have next, Maya?
 9
              MS. MORSI: Up next is Matthew Allen with
10
    Western Growers Association.
              CHAIR THOMAS: Matthew.
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              MR. ALLEN: Good afternoon, Mr. Chair and
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13
    Members of the Board. Can you hear me okay?
              CHAIR THOMAS: Yeah. Go right ahead.
14
15
              MR. ALLEN: Good afternoon. I will be brief.
16
    Again, I'm Matthew Allen with Western Growers
17
    Association.
18
              We are really happy and pleased to see this
19
    discussion occurring today regarding autonomous
20
    tractors. We believe there is a clear need to update
21
    Title 8 to allow the use of this critical technology.
22
    Western Growers supports the creation of an advisory
23
    committee moving forward to further discuss this topic.
              Thank you again for the (unintelligible.)
24
25
              CHAIR THOMAS: Thank you, I think. I think --
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was that the end?
                       Thanks.
1
2
              Who's next, Maya?
 3
              MS. MORSI: I'm just going to circle back to
    Hernan Hernandez with California Farmworker Foundation.
 4
    That was one I called earlier but missed.
5
              CHAIR THOMAS: Hernan, can you hear us?
 6
 7
              MR. HERNANDEZ: Yes, I can hear you. Can
8
    everybody hear me?
9
              CHAIR THOMAS: Yeah. Go right ahead.
              MR. HERNANDEZ: Yes (unintelligible.) My name
10
    is Hernan Hernandez, executive director of the
11
12
    California Farmworker Foundation, a 501(c)(3) nonprofit
13
    that works with farmworkers throughout the state of
    California.
14
15
              First and foremost, I do think that when we
    talk to workers, we know that safety is at the
16
17
    forefront, right? But we also know that a lot of them
18
    want opportunity, and they want opportunity in the way
19
    in which they can make higher wages.
20
              The way we view technology is what can we do
21
    in order to improve the quality of life of the
22
    farmworker, and it has to come through economic
23
    mobility; it has to come through opportunity. We fell
    that a discussion needs to occur on what can be done
24
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in order to provide more prosperity for the farmworkers

throughout the state of California. We think technology provides a perfect avenue to that via education.

As of right now, we're participating in the future of food initiatives, upscaling about 2,500 farmworkers making over 60-percent increase in wages via technology, via ag tech. We know that this is going to change the life of the population we serve. We know it's going to change the life of the families and of their children as well, as they see education as the way going forward.

So we really truly believe that an open discussion can happen between all stakeholders and really come down to the benefit of the farmworker that takes into consideration what their -- what their needs are and what can be done for them.

I feel like a lot of times we engage in these discussions, but the missing link within the discussion is the farmworker. And as a former farmworker myself, I spent 15 years working in the fields; I've seen what the needs are; I've also seen how technology has helped improve farmworker lives.

When I was growing up in the table grape industry, the majority of the injuries that happened were through the cart wheel. People would hurt their back. People would fall down. A couple of years ago they

invented the Burro. The Burro is an automated system that now carries all the 20- to 25-pound boxes from the field all the way to the packer, therefore alleviating the majority of the injuries that happen in that industry today.

So I definitely would encourage that we have a discussion; if an advisory group is created, then that we have farmworkers in mind. And when I talk about farmworkers, we're talking about farmworkers that are on the ground. Farmworkers are going to be impacted through this -- through these efforts, because I think that's the critical missing link here. And we encourage discussion and we would encourage us to help facilitate those discussions as well for farmworkers that therefore they can have a say in this discussion.

So, lastly, just want to say that we embrace technology, we want a better future for our workers, and we know for a fact that when we capture our surveys, workers just want more opportunity to create higher economic mobility within themselves and their families.

CHAIR THOMAS: Thank you.

MR. HERNANDEZ: Yeah.

22 CHAIR THOMAS: Do we have any other online

23 callers, Maya?

MS. MORSI: We do not have any more panel

25 commenters.

1 CHAIR THOMAS: All right. Yeah, go ahead.

MR. MIILLER: Thank you, Chair Thomas and Board Members. Again, I just want to thank you and I'll be very, very brief. Thank you for what you're doing today. Thank you for looking into the issue. It is greatly appreciated.

And I just want to associate myself with some of the comments that were just made. One is we agree the Board needs to focus on priorities. You need to really -- you have limited resources. We understand that. We genuinely believe this is a priority. When you have a 50-year-old regulation that's based on 80-year-old technology that doesn't in any way reflect how to make workers safer today, that regulation on its face deserves a bigger discussion. And please look into it; figure out how we can possibly fix that regulation.

We also agree that it's important to gather data and to have the conversation about it and have a dialogue about it. The only way that that happens, though, is if you create some venue, avenue, for people to come together to share that data, to gather that data, and to look at what we can do.

And while I appreciate that we have had two petitions that have failed, this ain't that. Those two petitions, both of them, offered individual specific

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amendments to Section 3441.
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 2
              We're taking a different approach here. With
3
    this, we're saying we're not offering you the solution;
    we're asking you to come collaboratively with labor
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 5
    unions, with the academics, with the manufacturers, with
 6
    your staff, with the ag community, and figure out what
    is the right way to amend 3441 in a way that is the highest
7
8
    priority protection for workers in a way that reflects
9
    the technology and the science that's available today.
10
    The only way you'll get there from here is through some
    kind of an advisory committee process or some ability to
11
12
    bring people together, have the conversation.
13
              Again, thank you very, very much for your
14
    time. It's greatly appreciated.
15
              CHAIR THOMAS: Thank you.
16
              And do we have any other commenters? All
17
    right.
18
              The public comment period is now closed.
19
              UNIDENTIFIED SPEAKER: (Unintelligible.)
20
              CHAIR THOMAS: Oh, yeah, always open to the
21
    Board.
22
              MS. LASZCZ-DAVIS: Okay. I just wanted to
23
    clarify.
24
              I appreciate everybody's comments. You know,
25
    just a few observations, for what it's worth. I mean, I
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think one of the things that we heard, clearly, was that 1 2 with the need for greater agricultural capacity to feed 3 the growing world population, one of the reasons for autonomous tractors in agricultural fields, we also heard. 4 that there has been difficulty, a fair amount of difficulty, 5 6 in finding workers to take the higher-risk roles in the field. There's got to be some way to deal with that. 7 We've also -- you know, we spoke at -- it's 8 9 been interesting. Some of the discussion has centered around this as being a technology of the future. 10 truth is, we're here already, and it's been around for 11 12 anywhere from seven to ten years. And when it's here, 13 we need to deal with it. I don't think we have a 14 choice. And what we need is to bring people together so 15 that we can inform each other as to how to implement

I did hear some concern expressed about the fact that if we have an advisory committee, we'll be moving fast forward into a rulemaking process, correct, (unintelligible), Chris; I think you mentioned that there is a pre-rulemaking venue for an advisory committee as well. Is that true?

this properly and, if necessary, how to modify the

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regulations.

MS. SHUPE: Yes. So advisory committees take place during the pre-rulemaking investigation.

And everybody's quite right to note that we do have resource restrictions that are inescapable. But if you -- just going back to my executive officer's report earlier today, we've conducted -- I believe we're on our fourth advisory committee meeting for either firefighter personal protective equipment -- it's the third. And then fourth for walking working surfaces.

When we're dealing with complex issues, this is not a fast-forward process. This is one where we engage, we bring everybody together, we talk about the issues that are relevant.

MS. LASZCZ-DAVIS: And thank you for that.

And, given that, I think it's important that we move towards some sort of an advisory committee process. I think the best thing we can do for all of us, for our farmworkers, for the California workers, is to get educated and informed so that whatever transpires comes from real sound, reasonable anchors of knowledge.

And I don't know whether or not this is the right place to do it, but I'd like to offer a motion, unless somebody else wants to share something at this point.

MS. STOCK: Well, I would like to comment on the advisory committee. And so I don't know whether I should do this now or after you have a motion or -- but

I guess I can make a few before you do that, Chris, in advance of the motion.

I -- I would strongly -- I plan to vote against it, if you make that motion, and I would strongly urge us to vote against it. And I'll just give a few reasons now.

First of all, in the context of what we heard this morning about the urgent issues in front of the Board and when I asked specifically what is it that causes the delays, Eric was talking about all the resources that are needed to do -- to do this.

We are asking the Board or the Division to take on a complicated process, and that is going to use resources that I feel like are not warranted at this point and not as urgent as the other issues that are in front of the Board.

And I want to say, also, that we have -- I'm glad that we had this panel. I know many Board Members traveled to go to the Ag Expo. So I think we can say that we have given quite a bit of conversation and discussion and time to this, more than is often provided to many other issues that were talked about. I don't remember a similar panel around workplace violence or indoor heat, et cetera.

So we have been trying to make opportunities

for the stakeholders to come together outside of the advisory committee process, which is something that needs to be organized and facilitated and managed by a very over-stretched staff. So I think there is nothing that precludes us from continuing to host panels like this to invite stakeholders to come and give testimony at public hearings, like they have been. When more information comes, there's nothing to preclude people coming to share it.

So I would strongly urge us not to give the burden of an advisory committee at this critical moment where so many other urgent issues are -- are pending, but encourage people to create -- to use these other opportunities to share information.

And I also feel like, you know, again, we -- we looked at this in December, and at that time we did discuss this and we said we wanted to wait for something to happen to get data from this experimental variance, which we have not gotten.

Not only have we not gotten it, I think we've learned that the data that's being collected is not what we expected. I think both the gentleman from Monarch and we heard earlier during the panel said that they have not -- that has not included situations where workers are in the field, in spite of the fact, as the

Division said, that that was the requested expectation. 1 2 There has been no talking to workers at that point, 3 because they weren't there. So -- so I have a lot of concerns about now 4 5 agreeing to something that we had just a few months ago 6 said we did not want to do until we got that information. So I would urge my fellow Board members to 7 8 -- to not vote for an advisory committee at this point. 9 When the experimental variant comes with more 10 information, as we get more information that stakeholders bring to either other panels like this or 11 12 to public testimony, we can then make that decision at a later point, but I don't think we're ready to make it 13 14 now. 15 CHAIR THOMAS: Any other comment from any other Board Member? 16 17 MR. HARRISON: Yes, I have some 18 comments. 19 CHAIR THOMAS: Yeah. Go ahead, Dave. 20 MR. HARRISON: So first I'd like to say that 21 -- just to kind of clear the -- you know, get the record 22 straight -- and I'm going to turn my camera off, because 23 I don't like looking at myself while I speak. 24 CHAIR THOMAS: You're not the only one, bro.

Sorry.

You're not the only -- no. Go ahead. Go ahead.

MR. HARRISON: So -- so I thoroughly enjoyed attending the Ag Expo. I was there. I loved interacting with some of the manufacturers, including Sabanto and some others. That was great. I look forward to future education.

I think that the advisory committee process

I think that the advisory committee process -I think we're putting the cart before the horse a little
bit. The Division kind of stepped ahead of us or -rightfully so, and granted a temporary experimental
variance, which we heard testimony from the Division
today that the applicant is not living up to the terms
of.

But I think we should collect that data. I think Mr. Trent Johnson nailed it when he said, "safe, reliable, and verifiable data moving forward." I think all the Board Members would agree with that comment, and I think we've got to continue to collect data that meet all that criteria.

Mitch Steiger said we shouldn't be following other states like Texas. If we followed Texas, what would that do? I mean, that wouldn't do anything for us.

And so I would make -- I'm going two directions here. One, I agree with Laura. I don't think an advisory committee is appropriate at this time.

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And I would also -- and I don't know if there's -- if we
1
2
    have the right or ability to request that any future
3
    temporary experimental or any sort of a variance around
    this technology be granted, that it go through this body
 4
    and not the Division.
5
 6
              I mean, I know they have administrative --
7
    or procedural rights to do that, but I think this is
    such a sensitive subject that if there are any future
8
9
    variances granted, that they should -- they should
    come through this body so that there's actual stakeholder
10
    involvement through the Board and not just staff
11
12
    granting these variances.
13
              So that's -- that's all I'd like to say.
14
              CHAIR THOMAS: Thank you.
15
              Anybody else?
16
              MS. KENNEDY: (Unintelligible.)
17
              CHAIR THOMAS: Sure.
18
              MS. KENNEDY: I guess I have a question for
19
    the Division.
20
              So I -- when I heard Mr. Yap speaking earlier,
21
    what I heard was that maybe there was miscommunication
22
    about the terms of the variance. And I'd like, I guess,
23
    the Division to clarify if Monarch is violating the
24
    terms of the variance agreement or what exactly is
25
    happening.
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UNIDENTIFIED SPEAKER: (Unintelligible.)
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 2
              MS. KENNEDY: Okay.
 3
              MR. BERG: So, yeah, there's many conditions
 4
    in the experimental variance. And, as Yancy said, the
 5
    purpose was for the -- for us to get real data on how
 6
    these tractors interact with people in the field, and we
    have not gotten that data. But it's not through any
7
8
    malicious attempt by Monarch, just the situations
9
    they're using haven't, you know, presented that
    opportunity. So we haven't been getting data.
10
              So the tractors are operating when there's no
11
12
    people around so tractors are not endangering
13
    employees, so we don't feel like the experimental
    variance should be pulled because we're hoping in the
14
15
    future they can look at situations where people are
16
    there. And they have done staged interactions where
17
    they intentionally put -- I don't know, Yancy, is it a dummy,
18
    or just have someone standing in front? But they do --
    they've done staged interactions, which is not sufficient,
19
20
    `cause it's all planned ahead, but it's a first step.
21
              I'm not sure if I'm answering your question,
22
    but --
23
              MS. KENNEDY:
                                   I quess basically my
                            Yes.
24
    question might have been, when the emergency or the
25
    experimental variance was granted, I mean, was it
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specifically stated we want this used in conditions
1
2
    where people are working in the fields?
3
              MR. BERG: I don't have it in front of me.
              I don't know, Yancy, if you want to be --
5
    remember the exact --
 6
              We have -- I don't know -- 25 conditions in
7
    that variance and I can't remember the exact wording.
8
              CHAIR THOMAS: Yeah.
 9
              UNIDENTIFIED SPEAKER: (Unintelligible).
10
              CHAIR THOMAS: Your day's not over yet.
              MR. YAP: The intention of the experimental
11
12
    variance was to have people in the field when we were
13
    conducting -- when they are running the tractor in
    autonomous mode. The -- that's -- that's not what we
14
15
    received, because it just so happened that, the way they
    ran the tractors, the workers were not present.
16
17
              MS. KENNEDY: So I guess that may have been
18
    the intention, but was that a stated condition?
19
              MR. YAP: It wasn't an explicitly stated
20
    condition; it was discussed verbally. But we did not
21
    know that -- you know, we made it clear during
22
    discussions that that's what we wanted, but it wasn't
23
    something that was legalistically stated on the
    conditions.
24
25
              MS. KENNEDY: Okay. I guess I'm just -- I
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just -- there have been several comments made during the
1
2
    discussion that Monarch is in violation of their
3
    emergency variance because they haven't provided these
    conditions in their testing. And I'm just trying to get
 4
    at if that's the case or not. That's all.
5
              CHAIR THOMAS: So I guess, fellows, the -- the
 6
7
    question really is are they going to have data at some
8
    point where the autonomous vehicle is going to be
9
    working with people so that we have some data to look
10
    at?
              MR. YAP: Well --
11
12
              CHAIR THOMAS: Is that a condition that was in
13
    the variance?
14
              MR. YAP: I think we're going to have to make
15
    changes to our experimental variance conditions and be
    more specific as far as what's expected and what data
16
17
    we're looking for. We're going to have to make changes
18
    to our existing experimental variance.
19
              CHAIR THOMAS: I think that's fair, because
20
    otherwise it -- you know, it doesn't make sense.
21
              So I'll just put my two cents in. And I think
22
    -- I don't think a motion is in order or necessary at
23
    this point, because we're not going to have any data to
    look at.
24
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So until we get to the point where we have

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something to look at and we have something that will
1
2
    tell us whether this is safe in these conditions or not
3
    with humans, I don't see the point of having an
    advisory committee at this point 'til we have that data.
 4
 5
    And as far as that goes, I'm not going to allow a
 6
    motion 'til we have some, because it doesn't make sense
7
    otherwise.
8
              MS. LASZCZ-DAVIS: Can I say something?
              CHAIR THOMAS: Sure. No, go ahead.
 9
10
              MS. LASZCZ-DAVIS: Let me push back on that
    just a little bit here. If the intent -- and I'm not
11
12
    sure I disagree with you entirely, but I don't think,
13
    moving forward, an advisory committee precludes Monarch
14
    from getting the data that it needs, and I don't think
15
    it precludes setting up a process within California that
    allows everybody to get educated.
16
17
              You know, it's nice to say, "yeah, you know,
18
    you can come to the meetings and provide your comments
19
    in the public domain," but do we really do anything as a
20
    result of that?
21
              That's an opportunity to be heard. It's not
22
    an opportunity to take action necessarily. And the only
```

time I've seen us really move forward, advance that

ball, is within an advisory committee process. Granted,

it's not perfect, but I'm not sure leaving this issue

23

24

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to public comment is going to translate to anything
 1
 2
    other than public comment five years from now.
 3
              So how would you address that?
              CHAIR THOMAS: No, I think -- I think you're
 4
 5
    -- I don't personally have a problem with an advisory
 6
    committee or kind of what we staged today, but I think I
    do have a problem with having an advisory committee that
 7
    it's really based on no information. I mean, we can
 8
 9
    still talk and we can do all that. We can have another
10
    panel. But, you know, that's -- you know, that's
11
    putting a lot of time and effort into something where we
    don't have any data to look at. And I think we could have
12
13
    one when we have data. I have no problem with that. But I
14
    don't think that that's now.
              And I think the conditions of the variance
15
16
    need to be reworked between you and Monarch so that
    we're going to have something to look at that will give
17
18
    us some information. That's all -- that's what I'm
19
    saying, because I --
20
              MS. STOCK: If I could just -- sorry.
21
    ahead, Dave.
22
              CHAIR THOMAS: Go ahead, Laura. I'm not going
23
    to stop you anyway. Go ahead, Laura.
24
              MS. STOCK: No, no, no. Go ahead. Finish.
25
    I'11 --
```

1 CHAIR THOMAS: No, I think I made my point. 2 Yeah, go ahead. 3 MS. STOCK: I was just going to respond to Chris' point. I think my concern about the advisory 4 5 committee is precisely how you defined it, is that 6 that is something that is typically moving towards action as opposed to just sharing, you know, more 7 information. And that's what I feel like we are not 8 ready for, that I think we're still in the, you know, 9 10 gather data, bring it to the Board through the mechanisms that we already have. 11 12 And then at the point where we have that information and we're ready to set up an advisory 13 14 committee to actually --as a prelude to taking action, 15 will have the data that we need. And, you know -- and, again, I just want to 16 17 recognize and appreciate that the Board did set this 18 panel up, which is, again, unusual. I haven't seen very 19 many of these in all my years on the Board. So I think 20 there has been quite a bit of effort to try to create an 21 environment where multiple voices are heard and can 22 discuss. And we can continue to do things like that if 23 -- if it seems useful. 24 CHAIR THOMAS: Thank you, Laura. 25 So any other questions? Any other comments?

1	MS. CRAWFORD: Can I just ask a clarifying
2	question?
3	CHAIR THOMAS: Sure.
4	MS. CRAWFORD: And this is about the data
5	piece, right. Am I hearing, Dave, that the only
6	acceptable data is the data from Monarch for us to be
7	able to move forward? Because I thought that was what I
8	heard, but I can't imagine that's right.
9	CHAIR THOMAS: Well, for for this
10	particular variance, it is between the Division and
11	Monarch, correct?
12	MR. YAP: Yes.
13	CHAIR THOMAS: But I don't have problem with
14	other information that would be included with that.
15	But, yeah, I mean, there's plenty of information that
16	can be gathered from other places.
17	MS. CRAWFORD: For an advisory committee?
18	CHAIR THOMAS: For an advisory committee. But
19	I don't think it's pertinent to set up an advisory
20	committee 'til we have the data we're talking about from
21	Monarch. And that can be arranged between the Division
22	and between Monarch and then we can get you know, over
23	time, may not be as long as you think. It may be a
24	few months may not be that long that we have some
25	actual data that may be pertinent to the conversation

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MS. CRAWFORD: Well, and Monarch could -- is
1
2
    probably still listening.
3
              MS. SHUPE: Can I make an interjection?
              And this is just a point of process, because
 4
5
    the Division, through the Labor Code, has authority over
 6
    the temporary experimental variance process. That is
    the complete extent of their authority when it comes to
7
8
    safety regulations. And I think that it's important to
9
    know that your Board staff would be the staff that would
    be working on any data gathering from the industry
10
    outside of Monarch.
11
12
              CHAIR THOMAS: Yeah, that's -- I mean, that's
    -- yeah, that's reasonable.
13
14
              MS. LASZCZ-DAVIS: So -- oh, Eric, you wanted
15
    to say --
              MR. BERG: Jason had some information to
16
17
    provide about the -- having workers there or not, how
18
    it's (unintelligible.)
              JASON: Based on our last discussions with
19
20
    Monarch, the type of operations that they are using the
21
    tractors that are under the variance typically do not
22
    have employees in the field. So it probably would not
23
    be a situation where they would be -- we could alter the
24
    variance to have them use the same tractor at harvesting
25
    or somewhere else where there might be employees in the
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It was for spring and other weeding operations,
1
    field.
2
    where employees would not be there. That's how they
3
    described it to us.
              CHAIR THOMAS: So is -- I have a question for
 4
5
    the -- for the Board Members to comment on is that what
    we expected or not? And I'm not sure that I expected
 6
    that, but --
7
8
              MS. LASZCZ-DAVIS: So, first off --
9
              MR. BERG: No. That's not what we expected.
10
    We were hoping to get interaction with humans, but I
    guess in these -- we have, what, two sites. And
11
12
    from what I understand, these two sites where the
13
    tractors are used, there's not -- Jason, correct me if
14
    I'm -- or Yancy -- there's just -- how these tractors
15
    are used at these two specific sites, there's not an
    opportunity for this human/tractor interaction.
16
17
              CHAIR THOMAS: Yeah.
18
              MR. BERG: We'd have to find another site for
19
    them to use these tractors, maybe, or that's -- so I don't
20
    -- we'd have to talk, too, more if these two sites where
21
    they're at right now, whether that can be -- if there
22
    are situations where people would be in the field with
23
    the tractors, maybe some other tractors that they
    have at these --
24
25
              CHAIR THOMAS: Yeah, I --
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MR. BERG: -- sites, but we don't know that.
1
 2
              CHAIR THOMAS: I mean, there's -- to me,
3
    there's two things here. One is I understand the
    operation of an autonomous vehicle where they're
 4
 5
    spraying and chemicals and poison, you know, that's
 6
    harmful to humans. And somebody is driving this
    vehicle. It's harmful to them and they're going to be
7
8
    all masked and Tyvex or whatever they need to protect
9
    themselves.
10
              But the bigger part of this is these
    autonomous machines working with and around humans that
11
12
    are not running them. That's the bigger, more broad
13
    application. And I think that's what we're trying to figure
14
    out overall is, okay, is it going to be as safe as when
15
    somebody is operating the machine as -- is it going to
16
    be as safe as when somebody is not and it's being done
17
    autonomously? Did I say that right?
18
              Anyway. So, yeah. Anyway. So that's -- I
19
    think that's what a lot of us thought this was more
20
    about, was both of those things together and having data
21
    on them.
              Okay?
22
              MR. HARRISON: In response to your question,
23
    Dave (sic), if I could?
24
              CHAIR THOMAS:
                             Sure.
25
              MR. HARRISON: I think you said did the Board
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1 know what to expect?
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And I say the answer's no, because we didn't even -- the Board didn't know that such a variance application was ever even submitted. Didn't even know that it was submitted, discussed, granted, or anything until after the fact. So I didn't know what to expect.

MR. BERG: Yeah. We're working on increasing transparency for that, like, have -- setting up a web page where we list all our experimental variances. So this was a good less --

CHAIR THOMAS: That's probably a good idea.

MR. BERG: Yeah.

13 CHAIR THOMAS: Probably is.

MR. BERG: This was a good lesson for us.

MS. KENNEDY: Well, I think I just want sort of wanted to back up what Kate's comment was getting at was -- and I -- I didn't think that -- I mean, people are calling for an advisory committee meeting. I -- I didn't think that was in response to the emergency -- I keep saying "emergency" -- experimental variance. I thought it was just a call for, "Hey, let's have a conversation about this and bring the parties together so we can figure out what everyone's concerns are and answer them."

So I may be a little process-confused. And

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so, you know, if we're -- I didn't even think it's our place to do an advisory committee for the experimental variance. That's -- right? I don't know.
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Anyway, but to the point Kate was making is I think there's plenty of data out there, probably, that can be looked at with respect to this issue. The reliance on the Monarch data -- I mean, even if we were waiting for that, that's a really tiny data set. Why would we base all our decisions on that?

MS. LASZCZ-DAVIS: That's right.

MS. KENNEDY: You know, we need to look at other data that's out there if we want to make data-driven decisions. If we don't, then forget it. So.

MS. LASZCZ-DAVIS: And if I might follow it up.

And, actually, Christina's clarification of the two authorities, if you will -- the two purposes, you know -- helped -- helped me get to the point where I still have to say I'd like -- at least I'd like to put a motion on the table and see where the vote takes us, because I too did not see our discussion or the panel revolve around the Monarch situation alone. This is a broader industry issue. And any process that we can set up to begin to educate ourselves and each other, you

can't lose.

So with that, I'd still like to put forth a motion on the table.

MS. STOCK: If I could just make one other comment before we vote on that -- or you put that out.

I think the issue is we have been hearing -- I think we've had quite a bit of stakeholder engagement on this issue. We had a panel where we heard a diverse group of voices. I think we've gotten quite a bit of, you know, testimony from -- from manufacturers, from people who are farmers, from labor, and others. So I think the system that we have now has provided quite a bit of -- of opportunity for stakeholder to -- to share their concerns.

I think what -- what you're saying, and I don't disagree, that what we need to move forward to action is -- is data that -- first of all, the experimental variance was designed to do. I agree it's not the only thing.

And, you know, there are other ways we can direct the Division to collect data. We can do things like that that are short of setting up a formal advisory committee that takes us on a pathway to taking action that we're not ready to take.

And my other concern is the extreme limited

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resources of the Division. And, as we discussed this
1
2
    morning, various other items that are urgent and are not
3
    -- where there aren't the resources to attend to them.
    There's a call for another lead advisory committee,
 4
5
    workplace violence committee, et cetera.
 6
              So I support your right to put that motion on
    the table, Chris. I think, you know, you should do that,
7
8
    and I'll be voting against it. But I agree. You should
    have the opportunity to see where the vote takes it.
9
              MS. SHUPE: Laura, can I just clarify for you
10
    that any advisory committee meeting wouldn't be
11
12
    conducted by the Division. The Division doesn't have
    authority over safety regulations.
13
              MS. STOCK: Oh, so then it would be the Board?
14
15
              MS. SHUPE: It would.
              MS. STOCK: Okay. So then I meant --
16
17
    substitute what I said about resources. I mean the
18
    Board.
            I think your resources are extremely limited as
19
    well.
                          They are. And I would not be the
20
              MS. SHUPE:
    -- it would not be the first time I've even said that in
21
22
    this meeting.
23
              MS. STOCK: Yes, yes, you have.
24
              MS. SHUPE: I would say that I don't have any
25
    senior safety engineers that I could assign to an
```

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1
    advisory committee at this time. But we do prioritize
2
    our work and we move things forward as we can. What we
3
    need from this Board is do you think that this issue is
    worth discussing.
 4
 5
              CHAIR THOMAS: So --
 6
              MS. LASZCZ-DAVIS: I -- I think it's worth
    discussing and I have full faith in Christina and her
7
8
    staff to decide the priority of this in line with the
9
    others.
             Amen.
10
              CHAIR THOMAS: So you can make your motion if
    you -- if you want to.
11
12
              MR. HARRISON: I respect the authority of the
    Chair, but I would agree with some of the other comments
13
14
    as well, Dave. But I completely respect your authority.
15
    But to allow the motion to come forward, I don't have a
    problem with that either.
16
17
              MS. LASZCZ-DAVIS: You know what? If you
18
    guys don't like it, you're going to vote it
19
    down anyway. So who cares?
20
              Well, let me put it forth and we'll see.
21
    We'll see where it goes. Are you okay with that?
22
              CHAIR THOMAS: Yeah.
23
              MS. LASZCZ-DAVIS: You good with that, Dave?
24
    Laura?
            Okay. Good.
25
              MS. STOCK: Yes.
                                 I -- I support your right to
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1
    put that forward, Chris. Go for it.
2
              MS. LASZCZ-DAVIS:
                                  Thank you. Okay.
 3
              This is the motion I'd like to put on the
 4
    table:
            The Board directs staff to convene an advisory
5
    committee of relevant stakeholders, including members of
 6
    the agricultural, labor, and occupational safety
    committees, to consider potential amendments to Title 8,
7
8
    section 3441. The committee will consider possible
9
    changes to safely incorporate autonomous agricultural
    equipment in California farming, including consideration
10
    of incident data.
11
12
              CHAIR THOMAS: So we have a motion on the
13
    table.
              MS. KENNEDY: I'll second that.
14
15
              CHAIR THOMAS: So we have a motion and second.
16
    Is there any other comment?
17
              Hearing -- hearing none, then, Sarah, where
18
    are you?
19
              MS. GONZALEZ: I'm going to step in for Sarah.
20
              CHAIR THOMAS: Oh. Thank you.
21
              MS. GONZALEZ: No problem.
22
              CHAIR THOMAS: Autumn, can you call the roll,
23
    please.
24
              MS. GONZALEZ: Member Burgel.
25
              CHAIR THOMAS: She's gone.
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1
              MS. GONZALEZ: Oh, I'm sorry. I should know
 2
    that.
           Member Crawford.
 3
              MS. CRAWFORD:
                             Aye.
 4
              MS. GONZALEZ: Member Harrison.
              MR. HARRISON: No.
 5
 6
              MS. GONZALEZ: Member Kennedy.
 7
              MS. KENNEDY: Aye.
 8
              MS. GONZALEZ: Member Laszcz-Davis.
 9
              MS. LASZCZ-DAVIS: Aye.
10
              MS. GONZALEZ: Member Stock.
11
              MS. LASZCZ-DAVIS: She's still there.
12
              MS. STOCK: I'm sorry. No. No. Sorry.
13
              MS. GONZALEZ: Got you. Chair Thomas.
14
              CHAIR THOMAS: No.
15
              So it's tied. You would have to have four
16
    votes to win anyway. So at this point it did not pass.
17
              But I do want everybody to understand that
18
    this will probably happen at some point in the future.
    I think that it's necessary, but I also think you have
19
    to have -- which I don't think we have access to right
20
21
    now, but we could get over the next few months -- is
22
    just data that shows us.
23
              And we're not opposed to that in any way.
    We're not opposed to the idea of automation, but there
24
25
    are -- you know, we have -- our agenda is to protect
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employees, and we have to do that. We have no other choice. It's got to be as safe or safer than what we already have in place.
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And so keep -- I mean, I think you should keep communicating. And we have no problem with that. And I think at some point in the future, we probably will have some advisory committee on this. But I don't really think it's appropriate and I think that the Board has expressed that at this time we don't feel that it's appropriate, at least some of us, not all of us, that until we have some more access to data and we have it in our hand and we can evaluate it, that it just wouldn't be appropriate.

So thank you. So do we have anything else to come before us at this time?

MS. SHUPE: Just new business.

CHAIR THOMAS: Which is ...

All right. So I'm going to go through the -do any of the Board Members have any questions for staff
or items that they would like to propose for future
Board agenda items? We kind of went through that already,
but, okay.

MS. KENNEDY: I know everyone's anxious to get going. I just have a quick question about where we're at with -- I don't know what it's called -- the

1	avalanche people.
2	MS. SHUPE: So we have staff assigned
3	currently working on combining two different rulemaking
4	projects that were initiated as a part of petitions,
5	and we're trying to merge those into a single rulemaking
6	to move it forward more efficiently.
7	MS. KENNEDY: Thank you.
8	CHAIR THOMAS: Any other questions from Board
9	Members?
10	All right. So we don't have a closed session,
11	Autumn?
12	MS. GONZALEZ: No.
13	CHAIR THOMAS: All right.
14	So the next Standards Board regular meeting is
15	scheduled for April 20th, 2023, in Sacramento and via
16	teleconference and video conference. Please visit our
17	website and join our mailing list to receive the latest
18	updates.
19	Thank you for your attendance today.
20	There being no further business to attend to,
21	this meeting is adjourned. Thank you.
22	(End of recording)
23	
24	
25	

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