

U.S. Chemical Safety and Hazard Investigations Board

Business Meeting

January 31, 2018

CSB Headquarters Office - Washington, DC

U.S. CHEMICAL SAFETY BOARD MEMBERS PRESENT:

VANESSA ALLEN SUTHERLAND, CHAIR

MANNY EHRLICH, MEMBER

RICK ENGLER, MEMBER

KRISTEN KULINOWSKI, MEMBER

STAFF PRESENT:

KARA WENZEL, ACTING GENERAL COUNSEL

OPERATOR: Welcome to the Chemical Safety Board public business meeting. My name is James. I will be your operator for today's call. At this time, all participants are in a listen only mode. Later, we will conduct a question and answer session. During the question and answer session, if you have a question, please press *1 on your touchtone phone. Also note this conference is being recorded. I'd now like to turn the call over to Chairperson Vanessa Allen Sutherland. Ms. Sutherland, you may begin.

CHAIR SUTHERLAND: Thank you. Welcome to our public business meeting, first of 2018, for the U.S. Chemical Safety and Hazard Investigation Board. Thanks. Today, we meet in open session as required by the Government in Sunshine Act, to discuss the operations of the agency and various agency or Board Member activities.

I'm Vanessa Allen Sutherland, the Chairperson and CEO of the Board. And with me today are Board Members Dr. Kristen Kulinowski, Manny Ehrlich, and Richard Engler. Also joining me today from our Office of General Counsel is Kara Wenzel and members of our staff.

The CSB, as you all know, is an independent, non-regulatory federal agency that investigates major incidents at fixed chemical facilities. The investigations examine all aspects of chemical

incidents, including physical causes related to equipment design, as well as inadequacies in regulations, standards, and safety management systems. Ultimately, we issue safety recommendations which are designed to prevent similar accidents in the future.

During today's New Business section, we will briefly highlight Board Member outreach, as well as our new product called the Safety Spotlight, as well as the agency's 20th anniversary of operation, and what that might mean to all of us, working towards our vision of a nation safe from chemical disasters.

We will have an update on investigations, of course, recommendations and deployments, an overview of ongoing Inspector General Audits, and a financial update.

If you are in the room and wish to make a public comment at the end of the meeting, please sign up using the yellow form that was immediately outside of the door to our left, your right, or certainly you could raise your hand during the public comments section. For those who are on the phone, you may also submit public comments by emailing them to meeting@csb.gov to be included in the official record.

But before we begin, I'd like to highlight safety information, as we always do at the beginning of this meeting. Please take a moment to note, especially if you're new to our location, where the

exits are, the door through which you came, if you're at our headquarters, is our exit and there are two stairwells to the left and right.

Please also take a moment to silence your cellphones or put them on mute or vibrate so that these proceedings are not disturbed. Thank you for that.

We will now proceed with an update on our open investigations. At this time, the Board Members will each provide an update on various ongoing investigations. But more information is always available on our investigations at the website address, www.csb.gov.

We will start to my right with Dr. Kulinowski, who will provide an update on the Sunoco Logistics Partners and Packaging Corporation of America investigations.

MEMBER KULINOWSKI: Thank you, Chair Sutherland. First, I'll start with Sunoco.

On August 12, 2016, seven workers were injured, including four critically, at a Sunoco Logistics Partners, a terminal facility in Nederland, Texas. The incident involved a flash fire during welding, also referred to as hot work.

Current status is that the draft report is in the final stages of internal review and will be sent to external parties for a factual accuracy review next month, it is anticipated.

And on February 8, 2017, an atmospheric storage tank exploded at the Packaging Corporation of America, or PCA, facility in DeRidder, Louisiana, killing three workers and injuring seven others. On the morning of the incident, PCA issued a hot work permit to the fatally injured workers to repair piping near a 100,000-gallon atmospheric storage tank which likely contained an explosive atmosphere.

That draft report is now complete and is being sent to a technical expert for external review.

CHAIR SUTHERLAND: Thank you. Next, Member Ehrlich will provide an update on the Loy-Lange Box Company and DuPont LaPorte investigations.

MEMBER EHRLICH: Thank you, Madam Chairperson. I'm going to cover DuPont first. It's the older of the two investigations.

On November 15, 2014, nearly 24,000 pounds of methyl mercaptan was released at the DuPont Chemical facility in LaPorte, Texas. The release resulted in the deaths of three operators and a shift supervisor inside of an enclosed manufacturing building. Additionally, three other workers were injured from their exposure

to methyl mercaptan and at least three more workers experienced methyl mercaptan exposure symptoms.

The CSB investigation team completed its draft report, which is going through external review at this time.

Loy-Lange Box Company. On April 3, 2017...The Loy-Lange Box Company investigation examines the April 3, 2017 multi-fatality incident which resulted from a catastrophic steam explosion inside of a pressure vessel, caused when the entire bottom of the vessel separated instantaneously. The vessel was part of a utility steam process used by Loy-Lange Box Company in the production of corrugated board products. Both the main portion of the vessel and the bottom remnant that separated have been recovered. Key areas of focus continue to be the circumstances surrounding the 2012 repair, the cause of the corrosion, and the opportunities that may have existed to detect the progression of corrosion damage over time.

Thank you.

CHAIR SUTHERLAND: Thank you. Next, Member Engler will discuss Enterprise Products.

MEMBER ENGLER: Thank you. Thank you, Chair Sutherland.

A flammable gas release with subsequent fire and explosions occurred at the Enterprise Products Pascagoula Gas Plant, in Moss Point, Mississippi, on June 27, 2016. There were no fatalities or

injuries but members of the public in the nearby community chose to evacuate in the absence of a government directive to do so.

The current status of the investigation is that a metallurgical analysis scheduled to be completed this month and the first phase of pressure vessel overpressure calculations is complete, with the results under review by our investigative staff.

CHAIR SUTHERLAND: And lastly, I will provide a couple of updates but wanted to quickly note that the CSB has recently deployed to Oklahoma where a gas well exploded and killed five workers. We are going to have information on the website. It is currently posted.

But investigators arrived onsite on Wednesday, January 24th. They met with the lease holder for the well and the drilling operator. Our investigators are going to continue to meet with well service providers and the well site consultant company that had employees on site at the time of the incident. Evidence preservation and collection is ongoing. It's still very early, but for those who may not have known that we deployed, we wanted to share that today.

The team will be developing a timeline of events related to that fatal explosion and we hope to be able to release additional information in the very near future. And information, as I said,

will continue to be updated on our website as it becomes available.

So, I will now provide updates on our final ongoing investigations, including Midland Resource Recovery, Didion Milling, and Arkema.

Starting with Arkema, which occurred on August 29th of last year, 2017, rainfall from Hurricane Harvey flooded the Arkema organic peroxide manufacturing facility in Crosby, Texas. As the flood waters continued to rise, the facility lost electrical power and the ability to maintain refrigeration for those organic peroxides that obviously require cold storage in order to maintain their current state. The hurricane ride-out crew relocated the organic peroxide containers from various storage buildings to nine refrigerated trailers, but several of those trailers also lost refrigeration due to rising flood water.

Emergency responders evacuated the hurricane ride-out crew on August 29th, established a 1.5-mile evacuation zone. But, lacking the ability to maintain refrigeration, the organic peroxide began to decompose and reached their self-accelerating decomposition temperatures, catching fire. One trailer burned on the 31st of August; two others burned on September 1st, at which point emergency officials initiated a controlled burning of the remaining six

containers on September 3, which allowed the evacuation zone to be lifted the following day, September 4th, which allowed residents to return to their homes.

Our investigative activities on that incident occurred...are continuing to occur and will include the development of a draft report for the Board Members to review. Information as it is currently is on the website.

Next is Midland Resource Recovery, which happened in May of 2017 in West Virginia. And that facility, among other things, decommissions equipment previously used to odorize fuel gas. Two explosions occurred at the facility in a four-week period, killing three workers and seriously injuring another worker.

The first explosion, which occurred on May 24th of 2017, killed two workers and that was the one that also injured another. But on June 20th, a second explosion occurred at the facility, killing another worker. Both explosions happened during the activities to decommission equipment previously used to odorize fuel gas.

Our investigation team is still working on that report. We did, as some of you may have seen, issue a factual update, but a draft report will be forthcoming.

And lastly, for Didion Milling, which occurred on May 31, 2017, an explosion at that facility, which is located in Wisconsin,

occurred at 11:00 at night, ultimately killing 16 employees...I'm sorry, ultimately killing five employees of the 16 who were working there, and injuring the remaining.

The investigation team is preparing to begin evidence testing, and will release a factual update on the investigation, currently scheduled for February of this year. But a final report will also be forthcoming.

Moving on to recommendations, our overall status is that we have 80% of our recommendations closed. Out of a total of 646, 163 remain in open status. 20% are open and 648 are closed. The total number of CSB recommendations, to be more precise, is 809.

Just a footnote here, and I welcome the Board Members to add any comments, we give that data regarding the total pool of CSB recommendations that have ever been issued, the number that have been closed and the number that have been opened, because part of our stakeholder interest is to look at that number, that metric. We recognize stakeholders are interested in that metric. But we also are evaluating additional ways to communicate how these recommendations are being closed and what that might mean for chemical safety.

So, some have said, you know, can you give more data? We do, and I'm about to share the status since our last meeting of those

that have been closed, remain open, or their status has changed. But for those who are curious as to why we give that metric at each meeting, it's because our statutory requirements are to issue recommendations and people are curious about the number that we issue and how well recommendation recipients are both receiving them, closing them, and at what pace or what's happening.

Do the Board Members want to add anything else that you think I might have missed?

MEMBER EHRLICH: No.

MEMBER ENGLER: No.

CHAIR SUTHERLAND: So, moving on to our current status, five new CSB recommendations were issued with the MGPI Processing, Inc., Toxic Chemical Release report. Their status is currently: open, awaiting response, or evaluation, or approval of response.

Our annual letters were sent out to our Federal regulator and major standard developing entities, recipients addressing 77 recommendations. For those who like to know more specificity, I'm going to share which recommendation recipients and how many each of them have received.

So, first, the Occupational Safety and Health Administration, or OSHA, has 21. The Environmental Protection Agency, EPA, has 14. The Department of Interior, Bureau of Safety and Environmental

Enforcement, or BSEE, has 10. The American Petroleum Institute, API, has 22 of that 74. The National Fire Protection Association, or NFPA, has 5 of that 77. And the International Code Council, or ICC, also has 5.

The status of all of our recommendations can be found on the website. For those in the room and on the phone who, like me, are more visual and less auditory, I know we went through that fairly quickly, but at [csb.gov/recommendations](https://www.csb.gov/recommendations), you can get more detail regarding our open statuses.

Recommendations that have been recently voted on can be found specifically under Recent Recommendations Status Updates, that page. Or if you want to see a status or a vote, that is a linked Status Change Summary.

So, in the fiscal year 2018, in total, we, CSB, have closed seven recommendations. Two were closed unacceptably. Two were closed acceptably, including an acceptable alternative to our proposal. One was closed reconsidered/superseded. And two were closed as no longer applicable.

This fiscal year the Board voted on those recommendations from the following investigations. First was the Macondo well blowout. Next was the ExxonMobil refinery explosion. Then Tesoro Refinery fatal explosion and fire, the Chevron refinery fire investigation

report, Donaldson Enterprises fatal fireworks disassembly explosion and fire, and lastly, MGPI, our most recent toxic chemical release report.

That concludes recommendations as an update and we will move on to the IG, or Inspector General, updates.

As of January 31st, the CSB is working with the Office of Inspector General on two audits. First, Improper Payments and Elimination and Recovery Act Audit, which is required by law. The OIG is conducting their analysis and expects to complete and issue their report by the end of the third quarter.

The second and last of those open audits is the Management Challenges and Internal Controls Report, which is also an annual audit. The CSB completed its Entrance Meeting with the auditors earlier this month and the OIG expects to complete and issue their report by June 2018.

Under our financial update, the CSB, like the rest of the Federal Government, is operating under a continuing resolution that provides sufficient funding for us to continue work through February 8, 2018. We continue to work with our respective appropriations committee staff on FY18 funding and are simultaneously also working on the FY19 budget proposal, as is the rest of the Federal Government.

So, those are our operational updates. Before we get to New Business, I will ask if the other Board Members have anything they would like to add or contribute before we move on to our New Business...Okay.

So, first I would like to give an overview of the New Business, just so that you know what we're going to cover in this section.

First, I will share what I alluded to a moment ago, and that's information about the Safety Spotlight. It's called the CSB's Safety Spotlight, but I wanted to provide more context of why we're doing that document.

And second, I will share, along with my other Board Members, from the last meeting, our outreach and advocacy activities, where we've been, with whom we have met. We're going to do that in no particular order. And project out for the next couple of months. Given that our meetings are not necessarily every month, we wanted to share where we will be and what stakeholder engagement will be conducted. And then, lastly, just an honorable mention about our 20th anniversary, which is a big deal.

So, I'm going to start with our outreach activities from the Board Members and staff. So, in no particular order, I will ask the Board Members to volunteer. The thought around this part of

our New Business is there's been a lot of activity in the

government. I mean we all know that it was recently shut down. It was only for three days, thank goodness. But we continue to engage with stakeholders to collaborate, to share and educate, from our body of work. And I think, speaking for the four of us, I think all of us take that very seriously. We receive a lot of invitations to be able to engage not just our CDL list, but on a variety of different topics.

So, in the guise of sharing where we'll be, encouraging others to invite us or partner with us and collaborate, we're going to each share what we did from the last business meeting and where we hope to go over the next couple of months. And, in part, I think it will highlight that, given how small we are and that we continue to work under a continuing resolution, we also continue to execute the mission, and luckily are able to do that based on the funding that we have through February 8th.

So, Dr. Kulinowski?

MEMBER EHRLICH: I heard her volunteer.

MEMBER KULINOWSKI: Thank you, Chair Sutherland. Since the last meeting two months ago, I have engaged in several outreach activities. I spoke about careers in chemical safety to graduate students at Duke University, primarily engineering graduate students.

Several of the Board Members and I had a wonderful, informative tour of an International Paper mill in South Carolina, where we understood much more about the process of making paper, and relates to one of our open investigations, not an International Paper facility, but in the same industry. So, that was excellent.

I had lunch with the Director of the ICWU Training Center here in D.C. at the office, actually, right here in this room. And I attended a reception for new officers of the American Chemical Society, professional society, of which I'm a member.

And just recently we hosted a researcher from the Mitsubishi Research Institute, interested in understanding the U.S. model for major accident investigation by government, by industry, and by third parties, and how aspects of it might be applied to Japan. The researcher was particularly interested in understanding the model of the CSB, which they do not currently have in Japan, an independent investigatory body.

Coming up soon, this weekend as a matter of fact, I'll participate in the 2018 American Chemical Society Safety Summit, aimed at helping the ACS identify opportunities to support safety cultures in the chemical enterprise and academic laboratories. Next week, I'll speak at the second annual Operational Excellence in Risk Management Summit in Houston, where I will share lessons

from our recent investigation of the toxic release at MGPI. And later next month I'll travel to the Virginia Tech Roanoke Center to address a process safety improvement conference, and then on to Santa Monica for the 2018 Midwinter Meeting of the American Bar Association Section of Labor & Employment Law, for which I have not yet compiled my remarks.

That's what I'll be up to.

CHAIR SUTHERLAND: Excellent. I will see you there, on the last one, not to give a preview. Members Engler or Ehrlich?

MEMBER EHRLICH: Okay. I have done significant outreach and advocacy over the last six to eight months, predominantly focused on our CDL, Critical Drivers List, related to emergency response, emergency training and preparedness. I take that very seriously. And my background for the last 30 years has been in hazardous material response and emergency response. And I have developed a presentation that I offer called "The Consequences of Not Knowing What You Don't Know". And...and I think that's pretty vital, and I probably should have said this under the... I don't even know if you want to say it about the incident investigations you read.

But we talk about Loy-Lange, for example, where five people died and it's easy to say, "Yeah, five people died." That's pretty gut-wrenching for the investigators, who have a tough time going

into the field and dealing with that. And in that particular incident, there was a couple that died who had just started a new life together and they were innocent bystanders when this container went through the roof and killed them.

And my goal is to look at what caused that, what we didn't know, what we need to know, and what we can do about those kinds of things, take that message into the field. And hopefully the people that we do outreach and advocacy to will take it back to their organizations and help prevent the same thing from happening again.

I think I did...I traveled about 100,000 miles last year, doing outreach. I think I have 23 or 24 investigations...or opportunities, all of which had to do with emergency response, meeting with LEPCs, Local Emergency Planning Committees, State Emergency Response groups, SERCs, and this year I hope to get involved with some of the TERCs, the Tribal Emergency Planning Committees.

But that's my focus. What do we learn? What can we do about it? How do we get it to people that can do something to keep those types of incidents from recurring? We don't go out and ask people for money. We go out and ask them for their time. Take the message back. In big organizations where you have a lot of talent, take advantage of the talent because those are the folks that can help prevent similar incidents and investigations.

I've done a lot of work with the Ammonia Safety Training Institute, not all about ammonia, but about safety days. In fact, I'm going to Seattle tonight to do a presentation tomorrow and Friday. And then the week after next, I'm going back to California to do another presentation in a different part of the state.

It's very important to me. And I think...I think we're making headway, okay. I really do. I've had people come up to me and say, "Hey, you know, we know that the things you have done," not just me but the agency, "...have kept people from being injured or killed on our facility." Dupont incident with, I believe, it was a phosgene cylinder that caused a problem or a [inaudible] hose, a problem with DuPont a number of years ago, where the hose blew up and killed somebody. That's what we need to stop. We need to make it safer every day so that when people go to work, they come home the same way they went to work. Thank you.

CHAIR SUTHERLAND: Member Engler?

MEMBER ENGLER: Thank you. On our Critical Drivers List, one issue is process safety and I'm the Board Member who has taken some responsibility for...along with others here, of course, for trying to promote modernization of process safety. It's...it's a broad category and sometimes it's difficult to focus within that. But there's certainly elements of process safety, such as ensuring that

proper analysis of hazards is conducted and that such hazard analyses are followed up. So, some number of my presentations have focused on that the process hazard analysis required by the PSM standard actually done to identify hazards, and was it followed up, or was it ignored? And what was the role of employees, as well as managers, in that process of pointing out where there were potential dangers to both workers and the community?

So, in that context, in recent months I attended and spoke at the Operational Excellence in the Oil & Gas Industry's conference in Texas. I spoke at the National Council for Occupational Safety and Health in Baltimore. I also participated in the...as Member Kulinowski discussed, in the briefing and plant tour with management of International Paper in Georgetown, South Carolina, and which included the participation of local unions at that site.

And in 2018, to date, I had an informal meeting with the Director of the International Chemical Workers Union in our training center here in Washington, concerning the DuPont investigation, to hear about any concerns and also to suggest...make some suggestions to that process and when it was appropriate, to speak to the investigator in charge. And also I attended the National Academy of Science's workshop on human factors in the

offshore oil and gas industry, also in Texas most recently, which was a new research initiative of the National Academy of Science.

Upcoming, I plan to participate, in person or by phone, in the Washington State Process Safety Rule for Refineries revision process. As you may know, California has adopted new rules for process safety for the state's refineries that were effective last October. Washington State is now proceeding to essentially do a similar rule for the refineries in their state. There's an open stakeholders process and CSB recommendations both to California and to Washington State, out of a specific investigation, are consistent with that. And I look forward to participating and understanding more about what's happening and working with our own Recommendations Department to understand how state-based efforts on process safety are...are meeting our expectations from our recommendations.

I'll also be attending the—tell me if I'm saying this wrong—the [inaudible] Human & Organizational Performances Conference in Texas in February.

CHAIR SUTHERLAND: ORCHE.

MEMBER ENGLER: ORCHE. I don't know if that's the right pronunciation. Which is a gathering of corporate leaders and

managers, focused on...on high standards for safety and health and process safety.

And I also am coordinating workshops at the upcoming in March United Steelworkers/Communication Workers Safety, Health, & Environment Conference in Pittsburgh, which our investigators will participate in on workshops that focus on what are the lessons learned from recent CSB investigations.

CHAIR SUTHERLAND: Thank you.

MEMBER ENGLER: Oh, and one more. I'm sorry. The other thing I...I'd like to mention is that, as a Board Member, one of the responsibilities that I have is within our action plans, is coordinating internal education called Board Seminars. We also have speakers sometimes for Board Members and staff. These are often...in fact, they're almost always voluntary seminars to advance continuous learning here. Member Kulinowski referred to the one just...we just had recently. But there have been a number of them.

Among the ones that were in the fall were Economic Trends in the U.S. Chemical Industry, by the American Chemistry Council, Standard Setting Process of the American Petroleum Institute by the American Petroleum Institute. We had a presentation from a person...a leader of a process on designing safety safeguards for high-hazard industries from the National Academy of Science. And

from the U.S. Forest Service, we had an internal discussion of what their approach to incident investigation was so that we can... I mean, I hesitate to use this term, but I think it's actually a good one, about continuous learning. So, we're not only assessing our own work, but we're looking to other entities and agencies for what we can learn. And the Forest Service has a different model [inaudible] investigation that we were exploring with them.

So, I wanted to mention that because that's another responsibility I have and it's another source of engagement that I think is quite important for advancing the work of the agency. So, thank you.

CHAIR SUTHERLAND: I...I think that is... I'll give mine, too, but I think that's also a good segue to highlight and thank the staff and the work of the staff for that type of continual learning. It's upon our core values, continual improvement, to take the lessons that we've learned internally and externally, incorporate them into our lives, set new goals.

For those who are in the room, you can actually read the continual improvement core value which the staff has very much embraced. And I think Member Engler aptly described that Forest Service presentation. It's because one of our senior investigators wanted to do a detail and in doing a detail, they're to do the...the

type of learning and lesson gathering and comparative analysis, to see how another agency works and to bring those lessons back to us. And that presentation, I think, also reflects that although we're talking about this because of the Sunshine Act meeting, it shouldn't go without noting that our staff and our...our investigators, our recommendations team, and others are continually looking outside to find better practices, best practices learned and implemented, and I absolutely appreciate that, and I know the other Board Members do as well. That's part of how that National Academy of Sciences High-Hazard Industries...Why not look around at the rest of the Federal Government, see how they're doing things and what they're doing?

So, I'm just going to put a plug in that even though we're talking, we should note how much of a contribution our team makes to our efforts to be able to go out and speak eloquently on these topics and to bring these kinds of people in who may or may not know what we do or who we are.

I'd also like to thank the...the group within the staff who organized the TAPPI, the paper mill tour that both Members Kulinowski and Engler just mentioned. Because we don't often get to do truly educational field trips where we get to see in practice how industry is operating. And I think we always come

away feeling like, wow, we really learned a lot, not just about the technology, but about how broadly some of our chemical safety lessons can be applied across industry.

So, thank you to the three Board Members for all that they're doing to do outreach and to share our really important chemical safety lessons.

So, since we last met, which was in November, I am not going to list events. But I've been to 22 events that include the SOCMA national meeting, Fertilizer Institute, joint federal and industry sessions that talk more broadly about safety. I've been to the Mary Cay O'Connor Process Safety Center to address them as well as our staff on ongoing investigations and our CDL, which is Critical Drivers List.

We have just recently...I just recently came back from the CCPS Technical Steering Committee meeting, which was in Texas as well, to share an overview of our investigative work, as well as some of the future goals of the agency. Also went to ACS with my colleague, which was a really good environment to learn. We both spoke at that event.

Just recently recorded for the first time my remarks to the Annual Reliability & Maintainability Symposium because we were shut down. So, I got to join them on video and do this, which I've

always wanted to do. But that was actually a really great way to continue to get the message out sort of remotely or by video. The IoMosaic event which includes many of the technical experts that are in industry who help gather data and...like incident information and to really hear some of the challenges that they are facing with data analytics and predictive risk assessments.

I will be in California with Member Ehrlich next week to enjoy at least about a day-and-a-half of very...wow, is it two days? Two days of varied stakeholder meetings which I think would be really great, regulator, non-regulated, community organizations. And really just to participate in hearing what...what they're doing, how they're implementing new California regulations.

I will be at the...actually was at the American Fuel & Petrochemicals event in, gosh, that's going to be in a couple weeks. The ABA, as you mentioned coming up, to talk about occupational safety and health issues on a separate panel from Dr. Kulinowski and Ms. Wenzel. My panel will be to share how enforcement and compliance and investigations all work together to promote chemical safety.

I will also be with my fellow Board Members at the USW HSE Conference in March in Pittsburgh. The Environmental Law & Policy Meeting in D.C. to share some of our 20th year overviews and focus

on the CDL. Risk Management Association to talk about how we approach risk and some of our related lessons. GCPS, which I think we may all be attending. And have done several informal meetings.

As Member Kulinowski and Member Engler shared with their meeting with the head of the ICWUC, I have also met with various Congressional committees during our budget time and sort of an appropriations focus.

We have had informal meetings with Contra Costa County as a follow-up. I know that Member Engler...not Member Engler. Member Ehrlich spoke about, I think, briefly about a month after I did for various emergency planning and response topics.

I have been meeting with various associations and SDOs about their recommendation status and, more importantly, about collaboration. The Chlorine Institute is a good example of us trying to figure out ways to share our lessons as it relates to chemical safety, chlorine related recommendations, and possibly even doing a joint article about lessons learned in general.

And then, lastly, although this is not outreach, it informs our outreach. The Board Members, we, I think, have taken to heart teamwork. I don't know if that's the right work. But we have had our own independent meetings to talk about where we're going to go, how we're going to...you know, which invitations we're going to pass

off to one another, to make sure that we're reaching the broad audience that we would like to reach and really trying to figure out how we can jointly do some of those activities or include the staff as well, so that we can really cover a lot more ground.

So that is an overview. If anyone has any questions about that, certainly feel free to ask us for more substance during the Q&A that's going to happen here shortly.

But I do want to get back to the agenda and talk about one of those items that is related to outreach and strategic advocacy. And that's something the CSB is pursuing by calling it a new program, the Safety Spotlight. And the agency will highlight a recommendations recipient, or possibly recipients, who have fully implemented the intent of the CSB's recommendation and is moving forward with driving safety change.

During numerous outreach events, I receive, and I'm sure my fellow Board Members and others have also received a lot of feedback about CSB being more... I'm going to compile those comments and just say they wanted us to be more success oriented. They often didn't know when someone had successfully implemented a recommendation, what had happened, how it was being successfully implemented. I and the recommendations staff did brainstorm about how we might be more responsive to that stakeholder critique. How

do we highlight what people have done to actually drive safety and to promote the mission of the CSB?

So, we plan to release a first Safety Spotlight as a highlight within the next month, month-and-a-half. But we really look forward to collaborating with others on our recommendations implementation. It's one thing to say we closed X number successfully. But I think to highlight when people have taken what is a voluntary activity—we have no enforcement capability—but when they really receive a voluntary recommendation, take it to heart, and close it acceptably or exceed our expectations, I think that that is worth note. And certainly we...our goal is to try to make sure that while we're holding people accountable, we also do acknowledge the changes that are being implemented in the chemical sector. Comments? Okay.

That leads to one other, I think, biggest pieces of excitement or news for us is that this is our 20th year. And so many of these items for innovation offer us to think about how we can be more nimble and communicate our lessons in a different way.

So, it is not fleshed out that we have any specific 20th anniversary activities planned at any intervals. But we are very mindful of it. I know that all of the Board Members will be sharing our reflections on the 20 years and the future of the CSB

as we continue to go through outreach and educational events throughout the rest of this fiscal year.

But that is a really big deal for us, and so, we will be working on additional accomplishments, or, what I call, "the little agency that could." You know, it's 40 people, \$11 million. And after 20 years, we're still churning out really great work and have a phenomenal staff who's able to deploy, do recommendations work, strategic outreach work, and really connect with the community.

So, in addition to hearing more about our 130 prior deployments, our 809 recommendations, we will be communicating this year, and the Board Members, I think, are very passionate... I can see the three of you are passionate about sharing what we've been able to accomplish and what we would like to continue to accomplish over the next 20 years.

So, you know, we'll probably be diving into new areas, but we'll continue to address a range of issues like combustible dust, reactive chemicals, improving safety in educational settings and at refineries. But, certainly, we want to be at the forefront of continuing to drive chemical safety change. And some of that will include collaborating and being able to spur others to...to new innovation and action.

So, with that, I think we are probably ready, if the Board Members have no other comments, to take comments from the callers, Operator, as well as those who are in the room. And I would request respectfully that if you do have comments or questions, to please present them within the usually allotted three- to five-minute period of time. We will begin with the list of people who are in the room, which will allow those who are on the phone an opportunity to queue up and either hit *1, I believe, or to send in an electronic comment, meeting@csb.gov.

So, beginning with those who are in the room, the first is the Chlorine Institute.

[UNIDENTIFIED]: I did...that's a mistaken sign-in.

CHAIR SUTHERLAND: Okay, sign-in sheet.

[UNIDENTIFIED]: I thought it was, yes.

CHAIR SUTHERLAND: Okay. So, operator, do you have any questions in the queue?

OPERATOR: Yes, we do have a question from Shakeel Kadri. Go ahead, Shakeel.

SHAKEEL KADRI: Hi, this is Shakeel Kadri. To the Board, the Board Members, I just want to express my sincere thanks and congratulations for coming up with the 20th anniversary and all the

help and support you guys have provided to CCPS and I'm looking forward to getting a lot more this year. So, please count me in.

[laughter]

CHAIR SUTHERLAND: We will, Shakeel, and we will be there both in person and via WebEx, because as you know, Dr. Kulinowski and I are not averse to WebExing into a conference, even when we can't travel there.

SHAKEEL KADRI: This time we are going to take you physical there and make sure that your reserves are all done ahead of time.

[laughter]

CHAIR SUTHERLAND: Well, we appreciate that. And I also want to thank you, while you're on the phone, for the TSC committee, which you probably already heard has evolved into us being able to participate in one of the upcoming books that they are working on for transient operations. And being able to participate in that meeting—Member Engler was there with me as well—to hear how the technical steering committee tackles very difficult issues, how they're beginning to think more proactively about extreme weather and what that means for their emergency planning and response, and to focus on something that's important to us, which is non-routine operations and the types of incidents that occur from transient

operations. I really appreciate everything that you do to help integrate the CSB into that work, given how much of the...their work relies on our investigative findings and contributions. So, thank you very much for that.

SHAKEEL KADRI: Sure. And one more piece of information. Our long-awaited concept book is basically done and I think some of you probably remember that we wanted to do some joint PR when that book comes out. John Bresland has really provided the forward on that book. So, once we are ready, I'll provide you some more insight on that.

CHAIR SUTHERLAND: That would be great. Many interested people on our staff who would love to really get involved in that book and the follow-on conferences and learn more. That's a really important area for us. So, thank you.

SHAKEEL KADRI: Thank you very much.

CHAIR SUTHERLAND: Operator, are there other calls in the queue?

OPERATOR: No, we have no other calls. If you do have a question or comment, press *1 on your phone. And as I say, we have no other calls.

CHAIR SUTHERLAND: Okay. In that case, I would love to thank the staff who help us continually orchestrate this. In about five

minutes the room, for those who are physically here, won't look anything like this. And it is a lot of work and preparation to get the notices out and to get people here and then to make it comfortable for us. So, I appreciate them doing that. More broadly, just the staff in general. With our 20th year anniversary and really gaining focus on trying to innovate and brainstorm and share, how do we collaborate with others, how do we walk the core values, they've been really remarkable with that. So, any of you who deal with them in the field, at other agencies, at trade associations or recommendation recipients, when you're done arguing passionately about different topics, remember to thank them for continuing to plug along and make the Board Members look like what we do is seamless and eloquent and, you know, awesome. Because without their help, I don't know that we would look that awesome.

No comments from the Members?

MEMBER EHRLICH: I agree 100%. We couldn't do what we do without the staff. I think I'd like you all to take note of the fact that the Chair makes more trips and presentations than I do. And she's trying to catch up with me on age, but she can't do that. So, I'm trying to catch up to her...with her on presentations. When you think about the amount of work that's involved, even in a 40-

person agency, and not only is the Chair a Board Member, but Chair

as well, it's remarkable to see the volume of work that comes out of here.

[multiple voices]

CHAIR SUTHERLAND: OK. Thank you, Dr. Kulinowski.

That was not an endorsement. It was just a factual statement. On that segue, I would like to thank our fellow Board Members for their contributions. And, you know, we have a lot of opportunities to assimilate feedback that we get and the Board Members, in this last fiscal years, with all the other things that we had going on, have really been contributing factor in us trying to determine how we as Board Members can reach more people, whether that ultimately becomes articles or more presentations or different types of outreach. So, I very much appreciate that. We all share the same interests internally and externally for innovating and learning from the past so that we don't continue to have really catastrophic events.

So, thank you, everyone on the phone. Our next public business meeting is tentatively scheduled for February 2018. The exact date will be up on our website. Stay tuned on the website. That might...that date might need to change. And please continue to check back there as well as in the Federal Register or, if you want to sign up to get an email alert, you can do that as well at

public@csb.gov. Thank you for your attendance, and with that, the meeting is adjourned.

OPERATOR: Thank you, ladies and gentlemen. This concludes today's conference. Thank you for participating. You may now disconnect.