

PG&E DIABLO CANYON DECOMMISSIONING ENGAGEMENT PANEL

PUBLIC MEETING

ZOOM VIDEOCONFERENCE

WEDNESDAY, MAY 26, 2021

6:02 P.M. - 9:08 P.M.

REPORTED BY MELISSA PLOOY, CSR NO. 13068

ORIGINAL

1 MR. ANDERS: Welcome, everyone. My name is
2 Chuck Anders and I'm the facilitator for the Diablo
3 Canyon Decommissioning Engagement Panel. I want to
4 thank you everybody for participating in this meeting.
5 Tonight we will -- go to the next slide, please, Zeek.
6 Did we get our slides going? Okay. So tonight we're
7 going to have two major agenda items. Before we get
8 into them, we will have a safety briefing and then we
9 have some new panel members to introduce.

10 Our first major topic of the evening is spent
11 nuclear fuel management and our other topic that we have
12 tonight is the coastal development permit that was
13 submitted by PG&E recently and how that interacts with
14 the California Environmental Quality Act process. We'll
15 have PG&E update on any other items of concern, and
16 around 8:20 tonight, we will have public comment period
17 and we look forward to hearing from members of the
18 public during that time. So next slide, please.

19 So, Tim would -- Dr. Timothy Auran, panel
20 member, has agreed to provide a safety briefing. We
21 start all of our meetings with a safety reminder or
22 safety tip. So go ahead, Tim.

23 MR. AURAN: All right. I think, again,
24 probably one of the biggest safety issues we're all
25 still dealing with is COVID. The vaccination rollout

1 has gone quite well, but I think we need to remind
2 everybody to make sure that you have gotten your
3 vaccines. We have statistics out that came today from
4 the CDC saying about 50 percent of the U.S. population
5 is now fully vaccinated, California slightly above that.
6 Unfortunately, the demand is dropping. Most of the
7 models predict that we're not going to reach herd
8 immunity. So there will be some continued restrictions
9 that go on potentially in perpetuity if we can't get
10 complete herd immunity in place. If anybody's concerned
11 about side effects or anything like that, we've given
12 almost 300 million vaccines in the country and there
13 have been very few, if any, significant severe reactions
14 to them. So we really do have extensive good data to
15 show it's safe and effective. Children 12 and older can
16 now get the Pfizer vaccine and the Moderna vaccine
17 should be approved very shortly for kids, as well.
18 Everybody needs to remember if you haven't gotten your
19 vaccine, that this is still the same coronavirus that
20 has killed almost 600,000 Americans. So if you haven't
21 been vaccinated, it's still the same virus. It can
22 still cause severe illness for you. If that alone isn't
23 enough to persuade people to get the vaccine, it appears
24 that a lot of large events run by private organizations
25 like sporting events, concerts, outdoor festivals are

1 still going to require either proof of a negative COVID
2 test or proof of vaccination. So as everybody feels
3 relief in a sense of opening society to speed your own
4 return to society, it's probably a good idea to get the
5 vaccine so you don't have to go through multiple
6 somewhat unpleasant COVID tests to prove that you're not
7 infected prior to that event. Anybody who hasn't gotten
8 the vaccine, you can go to vaccines.gov to find a
9 location. All CVS, Rite-Aids or Vons pharmacies still
10 have vaccines in stock and many are not requiring
11 appointments. You can walk in and get a vaccine at any
12 time. That's about it for me.

13 MR. ANDERS: Great. Thank you, Tim.

14 Before we get into introducing our new panel
15 members, I'd like to remind members of the public that
16 you have the opportunity to offer questions or comments
17 using the chat feature of Zoom. The panel members are
18 monitoring that chat feature, and during the
19 presentations or during the question and answer
20 sessions, they may take a look at your comments or
21 questions and follow up with those with the speakers and
22 so on. All of the substantive comments and questions
23 that are offered in the chat feature during the meeting
24 will become part of the public record and will be
25 included in the list of comments and public perspectives

1 in the panel official record.

2 So there's -- also, I want to remind everyone
3 that there will be a written transcript of this meeting
4 and that that will be available about ten days after the
5 meeting and I thank Melissa Plooy, who is our court
6 reporter that's reporting this meeting.

7 I also want to recognize Linda Seeley and
8 Trevor Keith who have taken the lead for the major panel
9 topics for this meeting. For those in the public that
10 don't know, panel members take the lead to put together
11 these topics that are discussed at the panel meeting and
12 Linda and Trevor are providing that leadership tonight.
13 This is the 18th panel meeting since its inception in
14 2018 and the panel on -- the panel members serve
15 three-year terms that are staggered terms and so each
16 year three panel members or three positions are up for
17 renewal and this year we'd like to welcome two new panel
18 members to the panel and two panel members that have
19 been reappointed. Dena Bellman and David Baldwin were
20 reappointed to the panel and Bill Almas and Miriam Shah
21 are new members to the panel and I would just like to
22 introduce Miriam.

23 Miriam has two terms as council member on the
24 Grover Beach City Council. She served on executive
25 committees of the Homeless Services Oversight Committee,

1 the Air Pollution Control District and California League
2 of Cities. She also sits on the board of the Grover
3 Beach Library, Five Cities Homeless Coalition and has
4 been active with Grover Heights PTA for several years,
5 serving three years as president.

6 Miriam, do you have any comments or thoughts as
7 a new member of the panel?

8 MS. SHAH: Thank you. I'm just really happy to
9 be here and there's already been a lot to learn and I'll
10 just hope to be able to represent the community well.
11 So thank you and thank you for trusting me with this
12 position.

13 MR. ANDERS: Thank you, Miriam.

14 Our second new member is Bill Almas. Bill is
15 retired from Chevron as a senior real estate manager in
16 2015. Bill held many various positions with Chevron and
17 Unocal, including environmental and regulatory manager,
18 manager of governmental affairs, area manager and
19 environmental and regulatory manager for Molycorp, which
20 is a subsidiary of Unocal. He was the lead for the
21 Unocal property purchase and settlements associated with
22 the Avila Beach remediation and managed the preparation
23 of the San Luis Obispo Chevron Tank Farm Environmental
24 Impact Report and various property sales.

25 So, Bill, sounds like you're qualified to look

1 at the decommissioning process. Bill, do you have any
2 thoughts that you would like to offer?

3 MR. ALMAS: Thank you, Chuck. Just that I
4 am -- I feel honored that I was selected for this
5 position. I will try and do the best that I can to
6 gather public input and that's about it. I do think I
7 am able to contribute to the panel, and so with that,
8 I'll sign off.

9 MR. ANDERS: Thank you, Bill. We did have over
10 50 applications for the four positions that were filled
11 this year. Sadly, we are losing two panel members, Alex
12 Karlin and Lauren Brown, and Lauren is with us tonight
13 and I just want to say and thank Lauren for his
14 extraordinary leadership and statesmanship over the past
15 three years as the panel has initiated its activities
16 and really matured as a collaborative body.

17 Lauren, do you have any thoughts? As this is
18 your last meeting with the panel, at least until a new
19 term, should you choose to apply.

20 MR. BROWN: All right. Yes, I would like to
21 comment just a little bit.

22 Yesterday I received a package that included --
23 I don't know if you can see this. It's a plaque that
24 PG&E has sent me and the sentiment on this plaque I
25 think has become something of a motto for the

1 decommissioning panel. I'd just like to read this one
2 section. "The decisions I make are not for me, but for
3 generations to come." That's what the panel will do, is
4 to try to determine what is best for future generations
5 and that motto, I think, really captured what my
6 motivation was for being part of this panel and it's one
7 the panel should keep foremost in your minds. I've been
8 honored very much to be part of it. I've enjoyed it. I
9 intend to keep in touch in watching what's going on and
10 I'd also like to say hello, Dr. Peter Lam. All right.
11 Well, I'll be muting myself and stopping the video
12 because...

13 MS. ROSALES: Thank you for your service,
14 Lauren. We're going to miss you.

15 DR. LAM: Thank you. I just unmute my mic.

16 MR. ANDERS: Any other panel members have any
17 other thoughts or suggestions or advice to the new panel
18 members or departing sentiments to Lauren and Alice?

19 MR. JONES: This is Tom. I'd like to thank
20 both Alex Karlin and Lauren for getting us off the
21 ground. Lauren's statesmanship and his engagement in
22 the community brought great outreach and advocacy to the
23 project and, frankly, Alex Karlin's regulatory expertise
24 and his experience in other environmental nuclear issues
25 really helped raise everyone's knowledge on the panel,

1 as well. So both will be missed and both have made
2 significant contributions to make this, I think, one of
3 the best engagement panels in the United States. So
4 thank you both, gentlemen, for your contributions.

5 MR. ANDERS: Great. Thank you, Tom.

6 Any other comments or thoughts before we move
7 on to the next agenda item?

8 Okay. The next item is spent nuclear fuel
9 management update and Linda is going to introduce this
10 topic.

11 So, Linda, please go ahead.

12 And I think we need the next slide, please,
13 Zeek.

14 MS. SEELEY: I don't think this is right. I
15 think we're introducing -- whoops, Chuck. You're muted.

16 MR. ANDERS: Zeek, go ahead to Agenda Item
17 Number 5, please.

18 MS. SEELEY: Okay. Thank you. I very much
19 appreciate this opportunity to be able to look at this
20 new spent fuel system that PG&E is going to be buying.
21 As you can see on this slide, this is the spent fuel pad
22 that we have right now. There are 58 casks of highly
23 radioactive spent nuclear fuel sitting there and we have
24 an opportunity now to help -- oh, gee. I just got a
25 message that my PC -- or my computer is going to run out

1 of juice. I have to -- excuse me for a second. I have
2 to plug it in.

3 MR. ANDERS: While Linda is gone -- this is
4 Chuck -- I just want to mention that we're pleased to
5 have during this particular segment Tom Jones of PG&E
6 that is going to do an overview and introduction of the
7 cask RFP process, along with Dr. Justin Cochran of the
8 California Energy Commission, and we also have Rodney
9 McCullum, who is from the Nuclear Energy Institute, is
10 going to give us an overview of the interim storage
11 activities, and we're very fortunate to have Peter Lam
12 with the Diablo Canyon Independent Safety Committee here
13 with us tonight to answer any questions the panel or
14 others might have with regard to the spent fuel system
15 or the intermediate storage facility.

16 So go ahead, Linda. Are you plugged in?

17 MS. SEELEY: I'm plugged in. So I am doing
18 this first before Tom and Justin and Rod, right?

19 MR. ANDERS: You're doing the overview and the
20 introduction.

21 MR. JONES: And just one correction, team.
22 Philippe Soenen is presenting for PG&E and Tom Jones
23 will be presenting on the coastal development section.

24 MS. SEELEY: Okay. Perfect. So anyway, we see
25 here on the slide 58 casks that are there right now and

1 when the plant shuts down -- and right now we have fuel
2 in the spent fuel pools. The spent fuel is there. When
3 the plant shuts down, PG&E is going to move all of
4 these -- all of the spent fuel out to this pad that's
5 there and it's going to be -- and they are -- right now,
6 they have submitted a request for proposal from several
7 different cask makers and they are going to fill up this
8 pad with casks and our job as the panel is to help them
9 decide what to get and so we made recommendations in
10 2019 what we would like to see to fill up the rest of
11 this pad with spent fuel.

12 And can you go on to the next slide? This. In
13 our strategic vision, we asked that PG&E -- we wanted
14 them to begin the -- anyway, we're going to skip A.
15 Okay? Because this has already happened. The RFP, the
16 request for proposal process, happened. We want PG&E to
17 thoroughly investigate and research all potential dry
18 cask storage systems so that we can get the very best
19 site-specific system that takes into consideration all
20 of the seismic risks at the Diablo Canyon plant and the
21 fact that the length of time that the spent nuclear fuel
22 and the greater than Class C waste, that's GTCC waste,
23 which is radioactive waste that's not spent fuel, but
24 highly radioactive, which will have to be stored on site
25 too. So that we want -- we don't know how long it will

1 be there and so we want to be able to have the best
2 possible system for storage.

3 We recommended that their selection use the
4 advances and the materials, the manufacturing and
5 engineering of dry cask storage systems so that we can
6 improve the shielding and confinement of spent nuclear
7 fuel and the heat capacity of the canisters. What we're
8 looking for is the very, very best -- the very best
9 system that is available on the planet. We also want
10 to -- them to do 24-hour-a-day radiation monitoring to
11 have casks that are capable of being inspected, that the
12 casks can be retrievable, and meaning if there is a
13 problem with them, that they can be removed and fixed,
14 have the capacity to either repackage or repair a
15 damaged cask and that they be licensed for
16 transportation so that they don't have to be moved and
17 we recommend that the new dry cask system minimize -- of
18 course minimize the dose rates of radiation to workers
19 to the greatest extent possible.

20 I have one more slide. We also recommend that
21 all PG&E staff and any outside contractors involved with
22 the cask loading receive excellent preoperational
23 training and testing based on lessons learned in other
24 dry cask storage systems before the implementation of
25 any new dry cask storage system. We know that they are

1 going to be bringing in outside contractors and we also
2 recommend strongly that any outside contractors involved
3 with cask loading have experience with the system and be
4 fully trained, vetted and adequately supervised.

5 Okay. So those are our recommendations from
6 our strategic vision and we will be adding to those as
7 time goes on because new facts are emerging as we go on.
8 Okay?

9 MR. ANDERS: Thank you, Linda. Do you want me
10 to introduce Philippe?

11 MS. SEELEY: Yeah, please.

12 MR. ANDERS: Okay. Our next speaker is
13 Philippe Soenen and Philippe is going to discuss the
14 cask RFP process that Linda just mentioned.

15 So, Philippe, go ahead and I think we need to
16 see some slides.

17 Zeek, do you have some slides for us? Next
18 slide. Next slide. Next slide. We apparently had
19 recommendations that Linda summarized. Next slide.

20 Okay. Philippe, it's all yours.

21 MR. SOENEN: Good evening. Like Chuck and
22 Linda mentioned, my name is Philippe Soenen. I'm the
23 decommissioning environmental and licensing manager. So
24 I just want to provide the panel and the public an
25 update on our request for proposal.

1 Can you go to the next slide? This slide has
2 been presented in the past, but I wanted to cover it
3 again for information for everyone. So some of the key
4 aspects on this request for proposal, we received inputs
5 from the panel through their strategic vision documents.
6 So as Linda walked through those, we've provided
7 references back to specific items that we've
8 incorporated and consider as part of the creations of
9 the request for proposal for a modified or a new design
10 dry cask system. So some of the aspects that we were
11 looking at are consistent with the proposed settlement
12 agreement for our nuclear decommissioning trust
13 proceedings is that we have a dry cask storage system
14 that can be -- offload all of our fuel from wet to dry
15 storage within four years of each unit's shutdown.
16 Also, the aspects that the request for proposal contain
17 are for a robust design meeting the Diablo Canyon
18 site-specific requirements in hazards, so including the
19 seismic -- a marine environment that we are in and also
20 considering the burn-up and loading requirements for our
21 site-specific fuel that we've had throughout operations,
22 also including the minimizing of dose to workers in the
23 public, and one point, we are going through processes
24 that will require licensing and also regulatory
25 approvals. So getting acceptance, going through these,

1 going through evaluations and there will be regulatory
2 approvals required for the implementation of this new
3 system. Next slide, please.

4 So one of the other aspects that Linda
5 mentioned is sort of the long-term monitoring. So part
6 of this new design or modified design that we would
7 implement, we would take into consideration the
8 long-term monitoring and what we're trying to display
9 through this graph here is through spent fuel heat and
10 dose, they both decrease in the same manner. So over
11 time, they reach sort of a rapid decline so they have
12 exponential decay to them. So what we're providing here
13 is a reference for the specifics on the durations of the
14 offloads. So we have -- our system now, our current
15 system is up to ten years for an offload capability
16 that's shown on the right there and our proposals, we're
17 looking at four years. So you can see the temperatures
18 are low, between 4 and 10, but when you consider the
19 loading that you put into a single canister of -- which
20 our current system has 32 assemblies in the canister,
21 you look at the heat accumulation that's associated with
22 that. So there is a significant difference between our
23 current system and what we're asking for in this request
24 for proposal. So that's just for awareness going
25 through this process.

1 Also, for what we have communicated to the
2 Engagement Panel in the past is that PG&E is including
3 in our next filing for funding for decommissioning is to
4 have a real-time monitoring system for radiation and we
5 envision that to be something for the entire dry cask
6 storage and not system-specific. So we have a current
7 system and we know we're looking at implementing a new
8 system. So we want to make sure that it goes in for a
9 system that can monitor anything, unexpected dose
10 increases, for the entire ISFSI site. Next slide,
11 please.

12 So this is the way we've presented our time
13 line for request for proposal in the past. This is just
14 for reference and indication of where we are with the
15 red indicator there. Actually, we've now -- because of
16 where we are in the process, we've actually modified
17 this to make more sense. So if we go to the next slide,
18 I'll walk through the actual status on our new
19 presentation. There you go.

20 So I want to point out where we are with the
21 request for proposal, the whole process. So we gathered
22 up our public inputs for roughly two years. We use this
23 strategic vision document for the Engagement Panel. We
24 had the workshops indicated there with the brown
25 indicator for the CPUC spent fuel workshops and we also

1 had the Engagement Panel workshops. We had a risk
2 assessment performed by UCLA for the offload options
3 consideration and also the California Energy Commission,
4 the CEC, we've been collaborating with them and they had
5 opportunities to look at the RFP, provide comments and
6 we resolved any comments from them before the RFP went
7 out. So then in the yellow boxes here, as we've --
8 we've submitted that in 2020. We are going through the
9 evaluation process and we're continuing to work with the
10 CEC collaborating on the evaluations. The CEC has been
11 involved along the way and Dr. Cochran will talk to that
12 a little bit later.

13 So once we have a recommendation to our senior
14 leadership, we'll get the approval for issuing a
15 contract to the winning bidder and we're targeting that
16 to be executed contract sometime first quarter of next
17 year is what we're targeting right now, and then shortly
18 after that, we would start on the design and licensing
19 process, all of the requirements for our site-specific
20 needs and that will then be submitted to the Nuclear
21 Regulatory Commission for their review and approval and
22 that's looking at in the 2023 time period. And
23 indicated here in green is that because it's a Nuclear
24 Regulatory Commission licensing activity, there is a
25 public process that can be -- process with that, so

1 public involvement with the licensing action just with
2 any other activity we have with the Nuclear Regulatory
3 Commission and then we're targeting a review and
4 approval for a license to implement a new design or a
5 modified design in the 2025 period by the time that our
6 unit two would be out of -- shut down for the last time.

7 That's the presentation I have for the RFP.
8 Quick, but we have a lot of speakers. So I want to make
9 sure we have access to those individuals who are not
10 readily available at all times.

11 Chuck, I'll hand it back to you.

12 MR. ANDERS: Okay. Dr. Cochran, do you have
13 any comments with regard to this collaborative process
14 that PG&E has gone through with you? And please
15 introduce yourself, also, for the panel and the public.
16 I think you need to unmute your mic.

17 DR. COCHRAN: Sorry. Double mute. Thank you,
18 Chuck.

19 My name is Justin Cochran. I'm the senior
20 nuclear advisor to the California Energy Commission, I
21 work for Chara Hokesholt, I also service the agency's
22 emergency coordinator. I'm going to give some brief
23 overview of our engagement on this process, but first of
24 all, I want to say good evening to everyone and I also
25 want to highlight we really value and appreciate all of

1 your engagement on these important issues. I think it
2 is essential for the local community to engage on these
3 critical factors and our agency supports and advocates
4 for the public engagement on these critical issues.

5 As I indicated earlier, I'm here tonight to
6 provide a brief update on the Energy Commission's
7 engagement in the spent fuel system request for proposal
8 process. I will not get into details or specifics of
9 the RFP process. It's still ongoing and we are still
10 under a non-disclosure agreement. Any of the technical
11 questions I will just defer to Philippe.

12 Throughout the RFP process, Energy Commission
13 staff have engaged via in-person meetings and conference
14 call with the PG&E team. Now, this engagement has
15 consisted of multiple in-depth discussions with PG&E
16 technical staff during the different phases of the RFP
17 process. Furthermore, our staff has determined that
18 finding a safe storage solution was a core component of
19 the UCLA study and the RFP discussions. This engagement
20 was essential in drafting our questions and key issues
21 that were deemed important by the Energy Commission and
22 various cores. Moreover, the PG&E team was responsive
23 in addressing the various topics raised during these
24 discussions. These needs and continued engagement meet
25 the Energy Commission's expectations of coordination,

1 collaboration and consultation requirements outlined in
2 the settlement agreement. It is our expectation that
3 PG&E will continue to incorporate feedback from the
4 local community and stakeholders into their
5 decommissioning plan. Thank you for your time and
6 consideration. I'm here if you have any questions and I
7 return the mic back to you, Chuck.

8 MR. ANDERS: Thank you, Dr. Cochran.

9 We have scheduled this session to provide the
10 opportunity for the panel to ask any questions of the
11 presenters after each topic. So do the -- any of the
12 panel members have any questions of Philippe or Justin?

13 DR. LAM: I just want to say hi to Dr. Cochran.
14 Good to see you again.

15 DR. COCHRAN: Good to see you, Dr. Lam.

16 MR. ANDERS: No questions from the panel
17 members on this topic? Okay. If not, we will move on
18 to the next agenda item.

19 ZEEK: Excuse me, Chuck. I see a couple people
20 with their hands up. Scott Lathrop and Lindsay -- or
21 Linda.

22 MR. ANDERS: I apologize. I didn't see that.
23 You guys are following the protocol and I didn't
24 recognize it. So Linda first and then Scott.

25 MS. SEELEY: I'm interested in -- Justin, I

1 don't see you, but, anyway --

2 DR. COCHRAN: I'm right here.

3 MS. SEELEY: Oh, there you are. Okay. You
4 changed places somehow on my screen.

5 Were you -- when you were reviewing the RFP,
6 did you review the -- did you feel that what PG&E was
7 asking for in terms of the thickness of the canisters,
8 the -- all the attributes of durability, that they had
9 requested those in their proposal to a standard that you
10 would think is the best that could be given, the best
11 that could be asked for?

12 DR. COCHRAN: Well, I can't speak to the
13 technical nuances, but I will speak more of a general
14 assessment. When we reviewed the initial proposal
15 question and the topics that PG&E were requesting of
16 vendors to address, we thought there were some good
17 components and some components that needed some
18 modifications. We engaged PG&E on these components and
19 they did make those modifications and adjustments, but
20 we know from a technical standpoint there's some
21 limitations as to who is ultimately the regulatory
22 authority and what is practical and available to meet
23 the requirements.

24 Our general assessment is that the canisters
25 did meet the safety requirements highlighted for the

1 loads, but we're in a situation where there's the ideal
2 and then there's the functional practical and it is our
3 consideration that dry storage systems are a superior
4 option than long-term storage in the cooling pools and
5 that all of the systems that were bid on did meet safety
6 requirements that would pass NRC mustard and in some
7 instances exceed NRC requirements. Does that address
8 your question?

9 MS. SEELEY: Not exactly because I asked if
10 they were -- in your -- if, in your opinion, they were
11 the best that could possibly be purchased and I'm not
12 talking -- because when we talk about money, and I know
13 you mentioned practical, but, you know, I've been
14 thinking about this in terms of money, the fact that
15 this is at least a 350-million-dollar project for these
16 canisters and say if it would cost 400 million for the
17 canisters if they were really, really, really durable,
18 wouldn't it make sense in the long run -- it's like are
19 you going to buy a cheap tire for your car or the best
20 tire for your car if you're going to go on a trip over
21 the Rockies, you know, and I'm not saying this is the
22 cheap alternative, but wouldn't you want to buy the
23 very, very best tire for your car and wouldn't that be
24 the thing that the California Energy Commission would
25 want PG&E to do because we're going to have this nuclear

1 waste for we don't know how long?

2 DR. COCHRAN: We do advocate and prioritize
3 safety protection of the environment and protection of
4 the public. That is our core mission and our goal. Let
5 me just this. The sun is starting to come through my
6 window. I can't really place an opinion because I'm not
7 here to discuss my opinions. I'm here to discuss the
8 information that was reviewed by the agency and met the
9 scientific and technical and regulatory standards. So I
10 can't conjecture on an opinion. What I can say is that
11 the proposal process was constrained by a lot of
12 factors, right? We had the time window that we had to
13 meet, right? So that limits what cask could come on the
14 market because they had to have already met a certain
15 level of NRC processes to be deployed within the time
16 window we were targeting. So it's not like we can wait
17 for an entity to design a whole new system and bring it
18 to market and deploy it in a time window that met the
19 requirement.

20 So the limitations were defined by the goals
21 and objectives we were trying to achieve and it is our
22 technical assessment that the proposal process did at
23 its core meet the safety requirements and advocate and
24 prioritize safety over other factors.

25 MS. SEELEY: Thank you.

1 MR. ANDERS: Thank you, Linda. Thank you,
2 Justin. I'm going to press us on. We have two other
3 questions on this topic and we should try to keep those
4 focused. We'd appreciate it. Scott and Patrick.

5 MR. LATHROP: Thanks. This is probably just a
6 general question for Philippe, just for the new panel
7 members and probably the public that's listening in. I
8 think it's important to understand that I think with the
9 whole issue of new canisters or going out for proposals,
10 the idea of trying to accommodate the shortness of time
11 that we have in the pool and bringing items out hotter,
12 meaning it's requiring a new design on that canister
13 that will go into the existing site. So I just thought
14 maybe, Philippe, you can kind of clarify that for the
15 general public that the main reason for doing the
16 proposal or having a new canister is to design something
17 that will fit on the existing site. So maybe you can
18 talk to that a little bit.

19 MR. SOENEN: Yeah, Scott. So thank you for
20 pointing that out. For general awareness, we do have
21 the restrictions of that the spent nuclear fuel has to
22 be stored within the current storage facilities. So
23 within that area. Also, in comparison, as I mentioned
24 slightly or tangentially on our current system, we
25 required cooling time before it can be transferred from

1 wet to dry storage. Our current system is ten years
2 approximately. So we're asking for something that
3 accelerates or shortens that cooling time, wet cooling
4 time, down to no greater than four years. It's a
5 significant increase in capability that a new system has
6 to have versus what the current one has. So we need to
7 have -- maintain the safety margins, a system that can
8 handle the heat loads and heat loads are significantly
9 higher because of the shorter cooling time.

10 MR. LATHROP: That sits on the current site?

11 MR. SOENEN: Yes, it sits on the current site.

12 MR. LATHROP: Thank you.

13 MR. ANDERS: Okay. Thank you, Scott and
14 Philippe.

15 Patrick, quick question and, Sherri, if you've
16 got a quick question, we can go ahead with that, then we
17 need to move on.

18 MR. LEMIEUX: Yeah. My question is relatively
19 quick here. It's about the last deck of these new
20 caskets. My understanding is that the current ones
21 don't have in situ monitoring of, for example, the
22 temperature and pressure inside the casket, and I
23 haven't seen the details of the new RFP, but are there
24 plans for these new caskets that we're getting to
25 provide that kind of real-time monitoring so that

1 somebody doesn't have to go there with a probe and check
2 the temperature of each casket, that we can actually,
3 you know, maybe we could all look at it on the Internet
4 if we wanted to so we're constantly monitoring these
5 caskets?

6 MR. SOENEN: So I'll take a shot at that one.
7 So I can't go into the details of the contents of the
8 request for proposal because this is confidential, but
9 what's -- what I did mention as far as the monitoring of
10 heat or radiation, so we will be looking at -- as we
11 mentioned, we are going to be requesting the funding for
12 implementation of a radiation monitoring system and
13 that's really where you drive toward the capability of
14 identifying something as unexpected as ongoing is the
15 concern through increase in radiation. The fuel
16 continues to cool. You expect decay of radiation to
17 occur throughout the same thing. So any increase in
18 radiation will be indication of something not going as
19 expected. Our current system does not have thermal
20 monitoring because of the way that it's licensed and
21 designed. There are other challenges with having those
22 types of monitoring systems. So we do have monitoring
23 making sure that the vent pads are clear. So every day
24 they are walked down and made sure that the flow paths
25 for the convective cooling is clear, but, yeah, there's

1 no active monitoring now, but as we state, we will be
2 looking for doing the real-time monitoring and that's
3 how we would capture the capability of monitoring both
4 old or current system if and when we implement a new
5 system.

6 MR. ANDERS: Okay. Thank you, Philippe. Thank
7 you, Patrick.

8 Sherri, you had your hand up? You need to
9 unmute your mic, please.

10 MS. DANOFF: Thank you. Yes, I have a question
11 for Philippe and also Justin.

12 Philippe, we're going to have superior storage
13 units for future spent fuel storage. Is there any
14 consideration of using those also for the existing ones,
15 to replace the existing ones?

16 MR. SOENEN: So there is no plan to, I would
17 say, retroactively go and change out the systems. The
18 systems are there, they are safe, they meet all the
19 requirements. Essentially, we're looking for capability
20 to shorten that life -- excuse me -- decay time or
21 cooling time needed to transition. So, no, we aren't
22 planning -- they meet the requirements, they will be
23 meeting their safety requirements going forward and
24 there's risk involved, obviously, with trying to do
25 transitions to another system. So that type of a risk

1 would not be appropriate, safe. We're just having a
2 different objective with the new system.

3 MS. DANOFF: Thank you.

4 And then, Justin, are you satisfied with NRC
5 requirements for storage safety?

6 DR. COCHRAN: I'll be honest that has been a
7 contentious issue between the NRC and state. The states
8 have historically always had the perspective that the
9 NRC requirements could be increased and that the NRC
10 could better take into perspective each state's
11 situation. For example, California has higher
12 requirements with regards to the decommissioning and
13 trust fund than the NRC does and many states have passed
14 regulations to require their plant to help defer more
15 money into their decommissioning trust fund than the NRC
16 mandatory minimum. So does that answer your question?

17 MS. DANOFF: It does in part. Any -- any
18 concerns about the technical requirements in terms of
19 canisters and casks?

20 DR. COCHRAN: Honestly, the NRC staff on the
21 technical side are pretty good. I've always found their
22 technical staff to be very professional, very
23 knowledgeable and prioritize key issues over say more of
24 the political side of the house. So I don't have
25 significant concerns on the technical aspects of NRC

1 processes or reviews.

2 And, I mean, I just want to point out a key
3 factor of, you know, if you ever read the Fukushima
4 report and you look at the section about what happened
5 to the cooling pools and what happened to their storage
6 facility, there's chapters of the damage that the
7 cooling pool absorbed and all the risks and factors that
8 came into that, then there's one little section on the
9 cask facility where had to remove debris, had to clean
10 out some mud, had to wash the canisters, had to inspect
11 for damage and that was it.

12 So it is our opinion that all of the
13 NRC-approved dry storage facilities offer superior
14 protection and long-term storage capability than any of
15 the cooling pool systems. I'm not saying the cooling
16 pool systems are not safe. It's just dry storage is a
17 better solution for long-term storage.

18 MS. DANOFF: Thank you very much.

19 DR. COCHRAN: You're welcome.

20 MS. SEELEY: This is Linda and I'd like to make
21 one comment, which is that at Fukushima, those dry casks
22 that they had that survived the earthquake and tsunami
23 were the kind that were made of thick -- not stainless
24 steel, but cast iron and those -- those lived through
25 that process without leaking and they are still there

1 and the kind of spent fuel casks that we have at Diablo
2 Canyon are a half-inch-thick stainless steel canister
3 that is put inside a two-foot thick concrete casing.
4 It's an absolutely different design and my personal
5 concern is that there is -- that the new spent fuel
6 system is going to be too much like the old spent fuel
7 system in this highly earthquake-prone environment and
8 that if PG&E has this incredible opportunity at this
9 moment right now in history to be able to put in a kind
10 of spent fuel cask, dry cask that would be comparable to
11 the one at -- the ones at Fukushima that survived, that
12 they would be doing right by our community and by
13 California and by the whole nation because we could set
14 an example for this country and so that's my biggest
15 concern here tonight with this spent fuel system.
16 That's all.

17 ZEEK: Chuck, you're not -- you're muted.

18 MR. ANDERS: Thank you. Thank you, Linda.

19 Let's go on to the next agenda item with regard
20 to spent fuel and I just was advised by the AGP and
21 meeting administrator that for whatever reason, the chat
22 feature is not working on the meeting right now and so I
23 really want to apologize to the public and to the
24 participants because we were hoping to have real-time
25 chat input from the attendees. I do want to

1 recognize -- remind the attendees that there's a public
2 comment period at the end. So there will be an
3 opportunity at the end to provide public comment at
4 around 8:20 tonight and so hopefully you will have the
5 opportunity to offer your comments or questions at that
6 time. So I think this is a technical glitch that we
7 didn't anticipate, but we'll make sure it doesn't happen
8 in the future.

9 So with that, our next item is the ISFSI,
10 license renewal process. And, Philippe, are you going
11 to handle this portion, also?

12 MR. SOENEN: That's correct.

13 MR. ANDERS: All right. Go ahead.

14 MR. SOENEN: So on the Diablo Canyon
15 independent spent fuel storage installation, ISFSI most
16 likely referred to it, the licensing activities are
17 ongoing for that.

18 So next slide. Some overview items, we have a
19 site-specific Part 72 license for our ISFSI that was
20 issued in March of 2004. The initial licensing period
21 was for 20 years. So it will expire in March of 2024.
22 The license includes the Holtec HI-STORM 100 system. We
23 have a site-specific anchored system that makes it
24 unique for our site and elicits some other items there
25 that are under license specific to us. So we've

1 completed seven loading campaigns and loaded 58
2 canisters and casks up at the ISFSI, 32 fuel assemblies
3 per canister. So the total fuel assembly is listed on
4 the slide there.

5 Next slide. So part of the regulation for
6 renewing a license under Part 72 for site-specific is
7 the regulation was modified to allow 40 years of license
8 period. So when you go for a license renewal, we're
9 going to be asking for a 40-year extension to that and a
10 site-specific license is required to be submitted two
11 years prior to its expiration. So we are required to
12 submit that by March of 2022 and we are on track for
13 making sure to do that. We have had a public meeting
14 with the Nuclear Regulatory Commission presubmittal
15 meeting that was held in January of this year and we
16 discussed the general layout of our application that
17 we're planning and also our preapplication inspection
18 activities it will be going through.

19 Next slide. So on the license activities,
20 there are also permitting activities associated with
21 ISFSIs. So for our ISFSI, they were fully permitted and
22 mitigated in perpetuity with both the state and local
23 agencies. So the California Coastal Commission and the
24 San Luis Obispo County. Because of the location of our
25 ISFSI, it is in the coastal zone. So the Coastal Zone

1 Management Act is applicable to this and I'll cover on
2 the next slide. We'll go there. Next slide, please.

3 So part of that is we have consulted with the
4 California Coastal Commission, and similar to what we
5 did with Humboldt, we are planning to submit a letter
6 for the Coastal -- or certification for the Coastal Zone
7 Management Act and the Coastal Commission stated that
8 that would be fine. Same process that was done for
9 Humboldt Bay and a copy of the letter received back from
10 the Coastal Commission stating that the Coastal Zone
11 Management Act for Humboldt was satisfied. We're
12 planning to do the same for Diablo Canyon. Next slide.

13 So part of the process where we are, in purple,
14 these are Nuclear Regulatory Commission activities that
15 occurred. So the Nuclear Regulatory Commission
16 developed guidance documents for ISFSI license renewal.
17 During that process of the development, those guidance
18 documents, there were opportunities for public comments.
19 Those comments were received, evaluated and resolved.
20 Then in the middle portion here, the yellow activities
21 for PG&E, we received input from the panel on license
22 renewal and what to consider for aging management of our
23 canisters and casks. So that's been taken into
24 consideration as we're developing our license renewal
25 application. We had the preapplication meeting, which

1 was public, and there was opportunity for public
2 comments, and then as you can see, we have the red arrow
3 there. We are preparing to do our preapplication
4 inspections at the ISFSI for license renewal and I'll go
5 into more detail on that and then we'll be updating
6 license renewal application with the results of those --
7 with those inspection results and then we'll be
8 submitting prior to March of 2022. We are targeting
9 fourth quarter of this year for that application going
10 in. Then it goes into the Nuclear Regulatory Commission
11 for review and, again, it's the license activities. So
12 there is opportunity for public comment and
13 participation in that and then we are expecting the
14 review process to take two to three years for the
15 application with the Nuclear Regulatory Commission, then
16 as I mentioned, in blue top there in dark blue, there is
17 a Coastal Commission portion for this Coastal Zone
18 Management Act and that will be in parallel with the NRC
19 review. Next slide.

20 So an overview of license renewal application
21 for the ISFSI. So we do evaluate every component of the
22 system, we determine which aging effects are applicable
23 for the material and environment that that material sees
24 and then we follow the Regulatory Commission's guidance
25 documents for recommendation of the aging management

1 program, then those programs are recommended for
2 frequency and scope to make sure that we're identifying
3 any degradation aging related prior to any loss of
4 intended function. I want to be clear with some of
5 these inspections, what they are set up per the guidance
6 documents to be looking for the leading components. So
7 we don't want to inspect everything for these aging
8 management programs, but we are looking at the leading
9 components, so the items that are most susceptible to
10 identify that aging degradation, then we would place any
11 items that don't meet acceptance criteria within our
12 corrective action program for evaluation and correction
13 as part of the process for license renewal and then we
14 also take into consideration the environmental effects
15 of the four years additional of operations. Next slide.

16 So these preapplication inspections, the intent
17 of those is they are a recommendation by the Nuclear
18 Regulatory Commission. The purpose is to demonstrate
19 that we don't have anything unique as far as material
20 and environment combination at our site and that our
21 guidance documents are binding and applicable to the
22 site at Diablo Canyon that provides the confidence that
23 the proposal for aging management programs is adequate
24 for identifying aging-related degradation prior to loss
25 of intended functions.

1 Part of our process, too, we have established
2 a -- an advisory board with independent nuclear experts
3 to make sure that we're -- they can challenge us for our
4 vendor assumptions, making sure we have a robust and
5 accurate license renewal application going in. We also
6 have invited independent nuclear experts. We've
7 notified the Nuclear Regulatory Commission, the resident
8 inspectors and also the region of the activities that
9 we're going to be performing for these inspections,
10 invited them to come in and observe, along with the
11 California Energy Commission and the Diablo Canyon
12 Independent Safety Committee to observe these
13 inspections that we have ongoing.

14 I'd like to take this opportunity to invite the
15 Engagement Panel members to observe these inspections,
16 as well. There's inspections going on in June and in
17 September. So I'm inviting the panel for those
18 activities. Next slide, please.

19 So part of the preapplication inspection, we
20 look at the scope considerations and we look
21 specifically at the material types. We do have three
22 different types of materials, stainless steels that our
23 canisters are built out of. We've implemented design
24 changes for more scratch, corrosion, cracking-resistant
25 materials. So we are going to be looking at all three

1 material types that are in service currently. Looking
2 at heat loads, the lower the heat loads, the more
3 susceptible it is to scratch, corrosion, cracking. So
4 that is a parameter we're looking at. In the amount of
5 time that the canisters and casks have been out on the
6 pad, so more opportunity for aging-related degradation.
7 Burn-up, we don't believe -- that's just an aspect to
8 make sure we've bounded everything, that there's nothing
9 shown different between high burn-up versus moderate
10 burn-up fuel being stored there and take into
11 consideration any manufacturing defects or deviations
12 that have been repaired or -- repaired before they were
13 implemented, making sure there's nothing as far as
14 that's out there that would have an impact to the
15 susceptibility for the canister and we will be looking
16 at the two canisters that were previously inspected
17 through the EPRI activities. So for trending
18 information, we'll look at those two that were
19 previously looked at, and we'll go to the next slide.

20 So I won't go into details here. This slide
21 will be available for individuals, but we've selected
22 eight canisters and overpacks that we'll be looking at
23 through these inspections, and in the table here, it's
24 showing the wide range of heat loads that we considered,
25 the years that they've been out in service, and then the

1 material types. As I mentioned, there's three different
2 certificates of materials that are being considered from
3 304, 304-L and 316, increasing in scratch, corrosion and
4 cracking resistance to those activities. And that's
5 just for awareness and I believe that's -- that's what I
6 have for the license renewal aspect.

7 MR. ANDERS: Great. Thank you, Philippe. We
8 have one question, one hand up. So let's take one
9 question and then move on, and if you have any
10 additional questions, we can address those at the end of
11 this segment so we have adequate time for the next
12 topic. Kara, go ahead.

13 MS. WOODRUFF: Thank you. Thanks, Philippe. I
14 had a couple questions about your presentation. You
15 mentioned that when PG&E received their permits to build
16 the ISFSI, that those permits issued by the Coastal
17 Commission and SLO County were deemed to be in
18 perpetuity, not only that, but the mitigation that went
19 along with that. I'm just wondering, is that also the
20 view of SLO County and the Coastal Commission or is that
21 just PG&E's view?

22 MR. SOENEN: You're asking my view for the
23 county?

24 MS. WOODRUFF: Well, you had said that the
25 permit conditions were in perpetuity and I didn't know

1 if that was something that everybody had agreed to, all
2 three parties, or if that's just PG&E's interpretation
3 of the permits.

4 MR. SOENEN: The permits stay specifically in
5 perpetuity. Tom can chime in, too, if I misspoke there.

6 MR. JONES: It's that clear.

7 MS. WOODRUFF: When they entered into those
8 permits, was there an assumption at that time that the
9 casks would only be there X number of years when we had
10 the different expectation of where they could be sent
11 beyond Diablo Canyon, like to a consolidated storage
12 facility for long-term or did we not know then either?

13 MR. JONES: I'll take that question. This is
14 Tom Jones. At the time, this is in the early 2000s when
15 we started planning for this in the late 1990s, which
16 even predates my employment with the company, we -- the
17 interim storage wasn't even an option or discussed in
18 the United States. At the time, the law of the land is
19 that there shall be a national repository. So while
20 it's mitigated in perpetuity and there's finite
21 licensing periods, our ultimate goal is still to put the
22 fuel where it belongs in a national repository for
23 long-term and permanent storage.

24 MS. WOODRUFF: So at that time when they
25 entered the permits, was there an expectation that the

1 waste would end up in the Yucca Mountain?

2 I guess what I'm trying to get at is when they
3 said the licenses were issued in perpetuity, did they
4 realize at that time how long these casks would end up
5 being stored on site?

6 MR. JONES: Yes. And the reason is it was
7 already over a decade late for the National Policy Act
8 and the reason we were developing the ISFSI entirely was
9 because there was no repository on the horizon.
10 Remember, this is an interim storage facility. So there
11 was also ample discussion about what the federal
12 government deliver on its promise and follow the law or
13 not, but in the meantime, we have the stewardship and
14 the responsibility to safely manage the fuel. That's
15 why we constructed the dry cask storage facility.

16 MS. WOODRUFF: Okay. Thank you. And then I
17 guess the next question is, for the last couple years,
18 we had assumed that the greater than Class C waste would
19 also be put at the ISFSI and it looks like there's been
20 a change in plans there and now there's a separate
21 facility being anticipated to store that waste, which is
22 also highly toxic. Can you comment on what the reason
23 behind that change was?

24 MR. SOENEN: Yes. So part of it is for our
25 current license and the permitting for the ISFSI is

1 specifically for spent fuel. Also, we have low level
2 RAD waste facilities currently back further for our
3 steam generator replacements -- excuse me -- our old
4 steam generators and our reactor heads are stored there.
5 So we're building a greater than Class C waste facility
6 in that same area where we have the other low level RAD
7 waste up in that area, and then for decommissioning,
8 that allows for a reduction in the owner-controlled area
9 to be more limiting in that area.

10 MS. WOODRUFF: So I guess I'm still kind of
11 confused. So what made you decide to not put the
12 greater than Class C waste at the ISFSI? Because I
13 realize there was a space consideration, that you're
14 aware of then, but something changed. So what was the
15 change, do you think?

16 MR. SOENEN: Part is for allowing the
17 acceleration in or reduction in offloads. You want to
18 have as much space available for your fuel on the
19 current ISFSI site. So that is more limiting. When we
20 went into 2018, we were looking for a seven-year cooling
21 time, and with the proposed settlement agreement, we
22 went into a four-year. So it did have a significant
23 impact on storage space.

24 MS. WOODRUFF: Okay. Thanks. And then you
25 also mentioned that panel members might be invited to

1 attend the inspections either in June or the fall and I
2 think I'd be interested in attending. I think a lot of
3 us would be. So thank you.

4 MR. ANDERS: Thank you, Kara.

5 Bill, quick answer and answer.

6 MR. ALMAS: Actually, Kara asked. It was
7 regarding the greater than Class C. I don't see -- I
8 probably missed it in my reading, but I don't see it in
9 the project description and to the county for the EIR.
10 It's probably there, but I didn't -- I didn't catch it
11 the first time through, and then I'm unclear on
12 permitting through NRC for that particular item. So
13 Kara has asked that question and so I guess I'm --
14 there's more to be said about that, but I'm satisfied
15 for now.

16 MR. ANDERS: Great. Thank you very much, and
17 thank you, Philippe, for your presentation.

18 Our next and last topic on spent nuclear fuel
19 update is the interim storage activities and we're very
20 fortunate to have Rodney McCullum with the Nuclear
21 Energy Institute here to give us an update on the status
22 of interim storage activities in the U.S. So, Rodney,
23 please go ahead.

24 MR. MCCULLUM: Thank you, Chuck. Can everybody
25 hear me and see me out there?

1 MR. ANDERS: Yep.

2 MR. MCCULLUM: Okay. Good. I realize my time
3 is already gone. I have a number of slides here. I
4 will pass them on to you for your information. I will
5 be able to entertain questions or also any follow-up
6 you'd like to do at any time in your deliberations. I'm
7 very honored to be in front of this panel. I really
8 respect what you put on that plaque about future
9 generations. I work for the Nuclear Energy Institute.
10 We are the trade association of the nuclear energy
11 industry. PG&E is a member company. I'm a nuclear
12 engineer for 35 years' experience, last 22 working on
13 spent fuel for the Nuclear Energy Institute. What I'm
14 here to talk about are opportunities to move the fuel
15 off the Diablo Canyon site to consolidated interim
16 storage in advance of a permanent repository. As you're
17 all aware, the permanent repository program installed
18 and it may take a while to get there, but I would not
19 give up hope for near-term movement. And, again, I'm
20 not going to go through all of these slides, but I think
21 it is important to know that the secretary of energy has
22 committed to the development of a consent-based interim
23 storage facility and I think that's particularly
24 important in light of this administration's commitment
25 to decarbonization which includes support for nuclear

1 energy. The administration just released a funding
2 announcement for advanced technology, used fuel for
3 nuclear energy. That's quite remarkable for a
4 democratic administration to be in that space. So I
5 think against that backdrop, this administration will
6 really move on the interim storage things that have in
7 play the whole time.

8 Going back to the Obama administration, there
9 was a Blue Ribbon Commission that looked at this. They
10 recommended a consent-based interim storage facility.
11 If you're not familiar with the Blue Ribbon Commission
12 recommendation, it will be the playbook for at least the
13 next three and a half years. What is consent-based?
14 Well, it's not one size fits all. It's something we're
15 currently defining at a couple facilities. So I believe
16 there are near-term opportunities to move the fuel off
17 site, which is why the transportability of these systems
18 is so important. They talk about adaptive and phased
19 managements. This is something the scientific community
20 is focused on. You make decisions as you go along and
21 you change things as you go along. So we go to interim
22 storage while we work our way through the adaptive-based
23 process of getting to a repository.

24 Why consolidated interim storage? It's the
25 most efficient means of managing the inventory. We've

1 talked about aging management. Philippe just talked
2 about that. A lot of infrastructure's going into this
3 first at Diablo. If you centralize all of the
4 infrastructure common location, a location in a site
5 where the degradation mechanisms are less likely to
6 occur and where you can have all the security in one
7 place. Tremendous efficiency. You're creating economic
8 opportunity in your community by getting the fuel out of
9 there, you're creating economic opportunity in the
10 receiving facility by bringing in highly sophisticated
11 interim storage facility to play with a lot of
12 technology, a lot of infrastructure, a lot of
13 investment, a lot of jobs. These systems have been
14 licensed for 40 years. The NRC has and it's continued
15 storage rule-making. They said they're good for at
16 least 100. So this gives us plenty of time to work our
17 way through the long, delayed repository conundrum.

18 As you can see, we're currently storing this at
19 73 sites. We've loaded over 3,000 of these systems. I
20 heard talk about the best available systems. Well, this
21 is a highly competitive industry. There's four supplier
22 companies vying for that RFP, or maybe not that one, but
23 vying for the market and they have innovated with a lot
24 of technology over the 30 or so years we've been doing
25 this because, you know, it's the competition that's

1 driven the innovation. So if you're looking for the
2 best available, there's plenty to choose from out there.
3 I will say that, you know, you should be looking at more
4 parameters than the thickness of the casks at Fukushima.
5 They were designed to exactly the same standards as
6 every one of these systems you see on this map here.
7 Yes, you know, stainless steel half-inch or five-eighths
8 inch thick stainless, that's a lot for stainless steel.
9 Think about your refrigerator, think about your
10 DeLorean. I'd much rather have that much stainless
11 steel particularly inside all that concrete particularly
12 with the structures. I'll have a slide on the defense
13 in depth in a minute here. You're just getting
14 different engineering challenges if you go thicker,
15 transportability, inspectability, structural challenges.
16 So you're always meeting the same standards. The reason
17 we've gravitated to these stainless steel inside
18 concrete silo systems is because they are the most
19 effective way to protect. It's been a competitive
20 marketplace that's gotten us there.

21 We talked about aging management already.
22 Tremendous infrastructure here. You see we've got
23 robotic inspection technology. Really, the inspection
24 and the repair plan that was approved by the California
25 Coastal Commission down in San Onofre is the state of

1 the art. It's the gold standard for this. When you see
2 a cask here that's in the north site on Dominion in
3 Virginia and that one is taking data, real-time data on
4 the fuel inside. That one is being used as a surrogate
5 for the entire industry so we can refine our models so
6 that we can have precise understanding what's going
7 inside these casks. This is the second experiment we've
8 done to look at this.

9 Again, looking at the decommission sites, all
10 of these dots on the map are going to be in the same
11 boat as Diablo. Do we want to develop this aging
12 management infrastructure, the security infrastructure,
13 the repair infrastructure, do we want to develop that at
14 all these sites or do we want to develop it in a few
15 consolidated sites? The industry very strongly believes
16 that you consolidate sites. We have two of them
17 underway. One, the Holtec Eddy-Lea Alliance project in
18 Southeast New Mexico, the other, the interim storage
19 project non-existing low level waste site in Andrews,
20 Texas. Both projects have license applications under
21 NRC review with decisions expected this year. Interim
22 storage partners may be within months. Holtec Eddy-Lea
23 Energy Alliance, they have had additional questions for
24 the NRC. They could still come in this year, but both
25 near term. They're both part of integrated decommission

1 business models, meaning these companies are also
2 purchasing decommission sites with intent to move the
3 fuel because they get reimbursed by DOE because the
4 government's acceptance because they have the
5 decommission trust funds. These companies are heavily
6 incentivized to move the fuel off the decommission sites
7 they own. So while Diablo may not be one of the sites
8 that gets transitioned to these sorts of companies, the
9 business incentive to develop these sites is strong.
10 They both have work to do to earn consent in these
11 communities. Again, I gave you some background in
12 consents in places to look for more so you can develop
13 your own informed opinion whether you think this will
14 work. They both had legislative efforts in the state
15 legislatures to negatively impact them. Both bills
16 stalled in committee. They've got some work to do
17 before their next legislative sessions. That will be an
18 interesting thing to see. They get their license this
19 year. Do they have some mode of consent before they get
20 to the next legislative session? You'll know that.
21 There was a site license in Utah. It was blocked by the
22 Department of Interior in a political action spurred by
23 state opposition and, frankly, the business cases you
24 have for these facilities in terms of the integrated
25 models didn't exist at that time in Utah. Could that

1 facility be back in play? I simply don't know, but I'll
2 simply say that is out there and DOE could pursue
3 additional options. You might find out more about that
4 tomorrow. The Department of Energy should release its
5 budget tomorrow and the secretary of energy did say in
6 that confirmation hearing that there would be
7 forthcomings and DPLs on what she intends to do with
8 consolidated interim storage. I would encourage this
9 panel to follow that closely, as well as these two
10 private projects.

11 Transportation, that's again when you're
12 choosing the system, the transportability is the key
13 consideration. There's a strong record here. People
14 tend to think because we don't have that ultimate
15 destination, we haven't been moving it and, therefore,
16 moving it is something new and maybe scary. Nothing can
17 be further from the truth. Here's the types of
18 conveyances we use and here's some information on the
19 strong record we have, both in the United States and
20 overseas because countries that reprocess and a number
21 of countries already have consolidated interim storage.
22 So this stuff is on the roads and on the rails
23 routinely. As far as hazardous cargo goes, it's some of
24 the best understood and best managed out there. A lot
25 of defense in depth in these systems. You can talk

1 about the number of inches or less than an inch
2 stainless steel or you can look at the whole system and,
3 again, that's a lot of stainless steel and there's a
4 number of things. I won't belabor this, but I'd be
5 happy to discuss it if the panel wants to further. You
6 can also google the Holtec missile test and you'll see
7 that a missile was fired into one of these. You'll
8 notice not the concrete, just the cask and there was no
9 loss of integrity after a 600-mile-an-hour
10 missile.

11 What are we waiting for? We're doing interim
12 storage because we don't have a repository program in
13 the United States currently. Other countries have made
14 progress on this adaptive phased approach. Finland is
15 licensed and under construction, France is going into a
16 pilot phase with collaboration from the host region,
17 Switzerland and Canada are narrowing sites and Sweden is
18 slowly working its way through the licensing process.
19 They've all been consent-based and you can see a number
20 of them have consolidated interim storage while they're
21 waiting.

22 In conclusion, I think that this issue is going
23 to be an important part of how we decarbonize the U.S.
24 economy. I don't think this administration will move
25 forward with nuclear without action on this issue and I

1 do believe they will absolutely move forward with
2 nuclear. They've already put their money where their
3 mouth is there.

4 So I think this is a good near-term solution
5 and we could start to see options here. We saw
6 Philippe's time frame for loading the cask. It could
7 very well be. I'm being a little optimistic, but you
8 look at his time frame and you look at the time frame
9 consolidated storage is on and they may not be here for
10 that long of a time. You know, at least that's my goal.
11 That's what NEI is working towards and a lot of us are
12 working towards. I would hope to engage with you again
13 in the future and report further progress on the interim
14 storage.

15 So with that, I'll open myself up to questions.
16 I hope I haven't gotten us too far behind schedule.

17 MR. JONES: That's okay, Rod. Appreciate that.
18 This is Tom Jones. Chuck just got dropped off. So
19 we're going to rejoin him. I'm going to be an interim
20 facilitator, and after this topic, we'll head to our
21 break. So we do have a couple moments for questions
22 from the panel and I'll ask AGP to let us know whose
23 hands up and we'll go from there. Questions for Rodney.

24 ZEEK: So you want to know whose hands are up
25 in the panel?

1 MR. JONES: That would be great.

2 ZEEK: Okay. Bill is up.

3 MR. JONES: Bill, you have the floor.

4 MR. ALMAS: Okay. This is a question for
5 Rodney. It all gets down to risk, right? So -- or not
6 all, but most of it is. Is the Regulatory Commission or
7 some regulatory body -- will there be a risk assessment
8 performed that looks at the comparative risk of storing
9 the spent fuel on site versus the extra shipping that --
10 I mean, there's an extra leg that takes place to go to
11 the interim storage facility. The interim storage
12 facility has a lot of attraction; however, it's all in
13 the -- it's all the risk. I mean, you have to just run
14 through those numbers, and from what you're saying,
15 transport is so minimal that that risk assessment will
16 come out favorable, but can you address that, Rodney?

17 MR. MCCULLUM: Yeah. And that has been
18 addressed by the Nuclear Regulatory Commission in a
19 number of ways. In the continued storage rulemaking,
20 there was environmental impact statement that looked at
21 the scenarios of consolidated interim storage, 100-year
22 storage and indefinite storage on existing sites. It
23 identified those risks and found it acceptable that NRC
24 has done a number of specific transportation risk
25 assessments. They have a brochure that I can get to

1 this panel that indexes all of those, a number of
2 sophisticated analyses, and as you said, the
3 transportation risk is small, but most importantly,
4 there are environmental impact statements on both of the
5 consolidated interim storage facilities. Those compare
6 the no action alternative, which would be leaving it a
7 year site and those other sites I showed to moving it to
8 the consolidated interim storage. They show the risks
9 and the costs of moving it to the consolidated interim
10 storage to be less than those of the no action
11 alternative. They recommend that the consolidated
12 interim storage or in draft they do. If that's the way
13 it comes out in final, they will get a license, but the
14 NRC is going three ways, in the continued storage
15 rulemaking, the specific transportation risk studies,
16 which there are a number of those, and in the
17 site-specific environmental impact statements for the
18 two consolidated interim storage, as well as for the PFS
19 facility that was licensed.

20 So there's a lot of information out there. I'd
21 encourage this panel to, you know, take their own look
22 at it, take a deep dive if you want to because there's
23 plenty of information to get to your question.

24 MR. ANDERS: This is Chuck Anders. I am back.
25 I don't know what happened. I got knocked off. We

1 have -- and thank you, Tom, for stepping in.

2 We have Scott, Linda and Kara, but before we
3 get to those questions, I'm wondering -- we've asked
4 Dr. Lam to be available for questions, also, and I'm
5 wondering, Dr. Lam, if you have any comments or
6 observations with regard to interim storage before we
7 move on with the questions. We do have a very limited
8 amount of time for this segment. We are over time, but
9 this is an important topic. So go ahead, Dr. Lam.

10 DR. LAM: Yes, indeed. I think Mr. McCollum
11 presented to you an exceptionally insightful and
12 informative presentation where the current status is. I
13 happen to be the fellow judge on the NRC bench that
14 adjudicates existing Diablo Canyon independent storage
15 facility. I wrote the consensus technical opinion for
16 approval on the Diablo Canyon independent storage and I
17 also happen to sit on the licensing board that
18 adjudicates the private fuel storage way back 10, 15
19 years ago for eight long years. Okay? So what you had
20 heard is exactly on the proponent's viewpoint. You
21 know, you now are well-informed about all the
22 advantageous issues that one could possibly think of.

23 The only comment I have is in our business, the
24 process is the punishment. In licensing, the
25 environmental impact statement developed by the fellow

1 agency co-NRC staff will be extensively litigated and
2 then there will be a period of admissible contentions to
3 be examined and litigated. Everything is formal. It's
4 a formal adjudicated process. So I think what you had
5 heard is a very, very detailed proponents I would say of
6 technical well in the form positions. They are very
7 technical in form, but as I say, since I know a little
8 bit about the licensing process, I would say let us wait
9 and see if the five-year schedule as expected by NEI is
10 realizable and my reaction is it's probably a little bit
11 on the optimistic side, right, because in the state of
12 Utah, Governor Huntsman made a statement that -- let me
13 quote him. Governor Huntsman of the state of Utah was a
14 strenuous and capable opponent to the spent fuel
15 storage. So he made a political statement saying only
16 over his dead body would he allow a centralized spent
17 fuel storage on the Indian reservation owned by the
18 Goshute Tribe called Skull Valley and the licensing
19 board voted two to one for approval, and as you well
20 said, Mr. McCullum, a license was granted, but the
21 facility was not built, but there was a long story why
22 it wasn't built.

23 MR. MCCULLUM: Yeah. Those are all very fair
24 point and I'll admit I'm giving an optimistic scenario,
25 but I just think the energy aboard on this one can give

1 impetus to these scenarios and I will point out that
2 litigation is well underway and almost complete. I
3 believe there's only one late-filed contention appeal
4 still alive in the ISP process. So those processes are
5 moving a little bit faster.

6 MR. LAM: Time has changed. It's been a good
7 20 years. As you indicated, a lot of advances has been
8 made.

9 MR. MCCULLUM: Yeah. NRC has done a very good
10 job with these two and is doing a good job. We look
11 forward to the conclusion of these processes.

12 MR. ANDERS: Thank you, very much, Dr. Lam and
13 Rodney.

14 We are over our allotted time for this segment.
15 So I'm going to ask, unless somebody has a burning
16 question they have to ask, that we move on.

17 I just realized that, Rodney, it's quite late
18 on the East Coast right now. So you're staying up quite
19 late.

20 MR. MCCULLUM: I've got my energy drink here.
21 So I'm ready for it.

22 MS. WOODRUFF: I have a burning question and
23 now Rodney is leaving because I know this is something
24 people ask a lot about.

25 In theory, consolidated interim storage seems

1 like a great idea, particularly for Diablo Canyon waste
2 because we're right next to the coastline and we're on
3 top of earthquake fault. So I think generally there's a
4 consensus that getting it off site is a really good
5 idea, but the argument that I'm hearing against it is
6 that the sites that have been selected in New Mexico and
7 Texas are very unfair from an environmental justice
8 perspective and that they're being placed in communities
9 that are disadvantaged lower income, have less political
10 power to stop such a facility from being built.

11 So I was wondering if you could specifically
12 address whether those claims of environmental justice
13 are accurate or not and really make the case that the
14 environmental justice isn't a concern because that's
15 what I keep hearing as a reason why consolidated storage
16 is a bad idea, at least the way it's currently being
17 contemplated.

18 MR. MCCULLUM: NEI is a very strong believer in
19 environmental justice and we would not want to see the
20 sites developed in environmentally unjust ways and where
21 you get there is how those organizations become part of
22 that community, how that community interacts with them.
23 If you're simply providing economic opportunity and take
24 something dangerous, well, yeah, that's environmental
25 injustice, but if you're giving the communities and the

1 states opportunities to oversee the facilities, to be
2 involved as partners, and that's what will have to be
3 negotiated between now and the next session, is those
4 two state legislatures. They will not be politically
5 powerless. This will be decided in the state
6 legislatures in Texas and New Mexico and we look forward
7 to a solution that fully comports with environmental
8 justice principles. That's our stand at NEI, and
9 whether or not they can get there, that's -- time will
10 tell.

11 MR. LAM: And the issue is a little bit more
12 new ones, you know. The devil is -- it's in the
13 details. We did the private fuel storage eight long
14 years of litigation. The tribal leader insisted that
15 this is environmental justice because if you go down to
16 the Goshute tribal land, they are really in a very
17 difficult economic situation. So they had taken the
18 view, as Mr. McCullum has said, the technology is safe,
19 the tremendous economic benefits. So the tribal leader
20 was a proponent of the facility to be in store in the
21 tribal sovereign nations land, but the state of the Utah
22 was adamant that this was within the state's territorial
23 boundary. So they would not permit and allow a central
24 national storage facility within the state boundary. So
25 how would you weigh and balance the two sides' different

1 viewpoints? Ultimately, one would need to make a
2 determination as to if you store a huge number of spent
3 fuel with tremendous inventory, are you able and willing
4 to safeguard that material for a long, long time? I
5 mean, that is a societal question that everybody would
6 be struggling with. It's not as simple as, well, you
7 know, we have to make every tribal member a millionaire
8 or we are now having a tremendous amount of radioactive
9 material, some of them at half life as long as 250,000
10 years. How would you weigh and balance that process?

11 You know, to address one of your earlier
12 questions about seismic safety, I wrote a consensus
13 technical opinion to approve the current Diablo Canyon
14 storage because on first principle, the casks are
15 relatively safe during a seismic event. On first
16 principle, first I make the licensee, which is PG&E, to
17 demonstrate during an earthquake the cask will not fall
18 over. If I am wrong and if they are wrong, I make them
19 to demonstrate once it falls over, it will not crack
20 open. Thirdly, let's say everybody's wrong there, I
21 make them to demonstrate the third level, one level the
22 off-site boundary would not exceed the NRC licensing
23 limit and then there's a fourth level of safety margins
24 that I insist on before I approve the facility is
25 demonstrate to my satisfaction the need for the earth

1 opens up, the cask is buried, then it will not thermally
2 become unstable and releases radioactive material.
3 After this four-level safety demonstration, then I
4 approve the Diablo Canyon dry cask independent safety
5 storage facility license for 20 years, but, therefore,
6 therefore, that in my mind would answer one particular
7 safety issue that's paramount in everybody's mind 20
8 years ago within the San Luis Obispo communities.

9 MR. ANDERS: Thank you, Dr. Lam and
10 Mr. McCullum.

11 Linda, do you have any closing comments on this
12 topic? And for anyone that has any remaining questions,
13 we'll follow up with those questions and get them back
14 to the panel. Go ahead, Linda.

15 MS. SEELEY: Okay. I'm a little bit confused
16 here.

17 MR. ANDERS: We're way over time on this
18 segment. So it's time to close this topic out so we
19 don't shortcut the others and we promised the public
20 that we would conclude at a reasonable time. So if you
21 have any closing comments on this topic and we'll take
22 our break and go on to the next topic.

23 MS. SEELEY: I do. First of all, I would
24 like -- I, unfortunately, never got the opportunity to
25 introduce Dr. Lam, who is the chair of our -- of the

1 Diablo Canyon Independent Safety Committee and he --
2 their next meeting is June 23rd and 24th in Avila Beach,
3 I'm sure, and so I would encourage the panel members to
4 attend that meeting and we'll get the information out to
5 the panel members about how to attend that. This
6 meeting illustrates to me how important it is to -- that
7 we have a follow-up workshop because we haven't even
8 asked -- we have 11 questions for Dr. Lam and we did not
9 ask one of him of the prepared questions that we have
10 this evening and I feel very sad about that because
11 they're terrific questions.

12 So -- and, Dr. Lam, I hope that you would come
13 to our workshop and answer the questions. These
14 questions aren't going to last forever. So I hope we
15 can have that workshop in the very near future and I
16 want to thank everybody else for coming to help us
17 understand this incredibly complex problem that we're
18 facing and I'm so appreciative, Chuck, that we had this
19 little bit of time that we had tonight. So I'll sign
20 off from there.

21 MR. ANDERS: Thank you, Linda and thank you to
22 all our presenters on this topic.

23 Let's take a five-minute break. It is
24 5:37[sic] right now. So let's get back together at
25 7:42. So we'll reconvene at 7:42.

1 (Recess.)

2 MR. ANDERS: Welcome back, everyone. I want to
3 remind the meeting attendees that while we don't have
4 the chat feature tonight, you do have the opportunity to
5 submit public comments on the panel's website. That is
6 DiabloCanyonPanel.Org, and if you go to the menu item
7 get involved, you'll see a dropdown menu that says
8 submit comments. Just fill out that form and your
9 comments or your observations, suggestions will become
10 part of the public record for the panel.

11 So let's move on to our next agenda item, and
12 that is the coastal development permit and the CEQA
13 process. PG&E recently submitted a coastal development
14 permit for the decommissioning process and Trevor Keith,
15 who is director of the planning and building department
16 with SLO County, is also a panel member and an ex
17 officio panel member and Trevor -- I've asked Trevor to
18 introduce this topic.

19 So, Trevor, why don't you go ahead and I think
20 we can bring up the slide presentation, also, and go to
21 the next slide. There we go. Trevor, I think you've
22 got to take your mic off mute.

23 Okay. Zeek, we're having a technical problem.

24 ZEEK: It looks like Trevor is having technical
25 issues. His mic is unmuted in the panelist list, but

1 he's not talking.

2 MR. ANDERS: Okay. Well, let's -- let's be
3 flexible here and Trevor is hopefully going to work out
4 his issues and the first item on this agenda topic is an
5 overview of the PG&E coastal development permit
6 application package and Tom Jones is going to present
7 that information. So why don't we go ahead with that
8 presentation and then come back. Hopefully Trevor will
9 be -- oh, are you back, Trevor?

10 MR. KEITH: Yes. Can you hear me now, Chuck?

11 MR. ANDERS: Yes, we can. Great. Go ahead.

12 MR. KEITH: All right. Sorry about that.

13 Thanks so much for having us back, panel members. Nice
14 to meet the new folks on the panel. Before I begin, I
15 just want to give a thanks from the county. I think
16 Mr. Guy Savage is still on as assistant CIO. I just
17 want to say thanks for all your work with the
18 decommissioning on behalf of the county in working with
19 PG&E and the rest of the staff here at the county. We
20 will miss you as you go into retirement next month. I
21 just want to say thank you so much.

22 MR. SAVAGE: Thanks, Trevor. I appreciate it.

23 MR. KEITH: Yeah. Thanks, Guy. We're going to
24 miss you, man.

25 So I'll transition now. So introducing Tom

1 Jones from PG&E. So as Chuck said, PG&E has submitted
2 their application. So we appreciate coming in at this
3 point to kind of talk about the process since they've
4 submitted the application, kind of from PG&E's side,
5 working through kind of the content and then Susan
6 Strachan from SLO County team, the project lead, she
7 will kind of go through our process as the lead agency.

8 So with that, Tom, I think if we can get the
9 next slide and have you jump in.

10 MR. JONES: Thanks. And, Zeek, we can go to
11 the next slide, as well.

12 So we talked about this project and the
13 component to it. There's three main drivers. There's
14 licensing through the Nuclear Regulatory Commission,
15 there's permitting through the County of San Luis Obispo
16 and California Coastal Commission and then there's also
17 the funding from the Public Utilities Commission. What
18 this map shows here is the different jurisdictions of
19 the site.

20 So the red outline in the boundary is the
21 project site with additional locations of potentially in
22 Pismo Beach and Santa Maria and that red outline is our
23 750-acre, roughly, Part 50 license with the Nuclear
24 Regulatory Commission. So that striping you see in that
25 image, that's the exclusive jurisdiction for the Nuclear

1 Regulatory Commission for the health and safety of the
2 public related to radiological items.

3 The yellow line that bifurcates it in the upper
4 third of that polygon, that's the coastal zone. So
5 everything you see to the north and east or to the upper
6 right or northwest -- east -- excuse me. The -- that's
7 the exclusive jurisdiction of the County of San Luis
8 Obispo.

9 The green area is the area that is overseen
10 first by the County of San Luis Obispo through their
11 local coastal program and then is subject to appeal to
12 the California Coastal Commission.

13 And then, lastly, there's a little area in the
14 marina. You can see there's some striping over the
15 water. That area is called original jurisdiction and
16 anything from that meeting high tideline out is only
17 subject to the approval of the California Coastal
18 Commission. The county had a meeting at Diablo Canyon,
19 along with the California Coastal Commission and
20 California State Lands Commission agreed to enter an MOU
21 where they developed the request for proposal for the
22 consultant together and had comment and that they'll
23 work together through the development of the
24 environmental impact report process so that that
25 document will support the different jurisdictional needs

1 when we go through approval. We can go to the next
2 slide, please.

3 So here's a simplified chart we've shared with
4 the public and our Engagement Panel for these swim
5 lanes, these multiple concurrent regulatory paths that
6 we're pursuing to have all of our discretionary
7 approvals in hand by 2024 and this is for the coastal
8 development permit process and the county's process both
9 in and out of the coastal zone. So we've had a couple
10 years of application development on this left third of
11 the slide and our public participation was through the
12 workshops that we've conducted, different stakeholder
13 engagement and in working with the Engagement Panel for
14 all of that extensive public comment that you helped
15 generate over a thousand unique public comments, then
16 we've prepared the coastal development permit what I
17 call the application suite. There's also some
18 applications for that county unique jurisdiction and an
19 overall development plan. All three were submitted
20 concurrently to the county and their functioning is the
21 lead CEQA agency. They have the pin to develop this
22 environmental document and review in coordination with
23 the other agencies.

24 And so we have that little red arrow there
25 after that second yellow box. So as an applicant, we've

1 taken our first major step or second major step, right.
2 We've submitted to the agency application for review.
3 We have received a notice of incomplete or hold letters
4 the county calls it and this 3,000-page application.
5 We've got some questions from the county that we'll need
6 to resolve and we're also providing some supplemental
7 information between now and in early summer like
8 expansion on our traffic analysis.

9 So once the -- once we satisfy the county, and
10 that's our burden as the applicant, right, you have to
11 give a thorough and complete application, the agency has
12 to concur, then it goes into this process and I'm going
13 to go light on this because I know Susan will talk about
14 it, but next will be a public scoping meeting and after
15 that the county takes it and works with their consultant
16 and the other agencies to develop this document and then
17 there will be multiple public processes along the way
18 indicated on this chart and this chart's available on
19 our website and also there's a YouTube video if you just
20 type in Diablo Canyon coastal permit. There's a
21 couple-minute video that takes you through this process.

22 One nuance here, because we have these
23 overlapping jurisdictions, is the Coastal Commission
24 when working together with the county and statelands
25 said we want PG&E to submit that application for

1 original jurisdiction once the draft environmental
2 impact report is out. So we won't, as an applicant,
3 have line of sight until that's in public document about
4 what's in it, but their needs will be addressed in that
5 document, as well. So this schedule here assumes this
6 line at the top is the original jurisdiction path, and
7 as an applicant, we just assume will be appealed to
8 Coastal Commission, and if that occurs, those processes
9 will merge at the final stage of approval or review for
10 the Coastal Commission and it could be a rejection as
11 well, right? And so sometimes, you know, it's our,
12 again, burden as an applicant to have a thorough, robust
13 application and work with the agencies to address any
14 deficiencies they might deem that need to be addressed
15 so they can make a deliberation, further
16 decision-makers. So we'll go to the next slide, pick up
17 the pace here a little bit.

18 So we talked about this info hold letter or
19 request for additional information from the county.
20 This is where we are today. We'll be submitting on May
21 27th. I guess it's tomorrow at the end of the day. A
22 lot of the questions, but not all of them. So we have
23 41 that are in management review. That's with me and
24 other team members. 42 percent, I mentioned the traffic
25 study still with subject matter experts that PG&E

1 doesn't have the staff or we don't have traffic
2 engineers. So it's not something utility does. We
3 consult out for that work. 10 percent are under
4 technical review for the rest of the team and we haven't
5 started on seven percent, but that's our backlog curve
6 and we'll be working that down as quickly as we can and
7 we want to be sure we provide thorough answers to the
8 county's questions. Next slide.

9 We've seen this slide before and I'm just going
10 to go through. What the application does embody are a
11 lot of the input from the Engagement Panel and so this
12 slide denotes key components of the application and
13 where it links to your strategic vision and the input
14 that you gained on behalf of our community and your own
15 unique product. Of note, especially with the recent
16 announcements about wind energy and the potential for
17 additional generation in the community, as item two, we
18 are retaining both switch charts for a couple of
19 different reasons.

20 One, once Diablo Canyon stops making power, we
21 become a very large energy customer, an enormous energy
22 customer. We'll be the largest energy customer in the
23 county, single energy customer in the county.

24 The second is our 500,000 volt system. We call
25 it 500KV. It interconnects from Diablo Canyon northeast

1 to Fresno and due east to Bakersfield and those are
2 interconnected. So as long as we have that triangle
3 interconnected, we can lose one leg of that for
4 maintenance or other reasons and still support these
5 three areas. So that's essential nervous system, if you
6 will, of California and our largest transmission lying
7 capacity that we have. And then, lastly, we'll be
8 taking energy in on the 230KV line, 230,000 volts. So
9 we'll retain that system, as well, and it's still used
10 and useful for our customers, in addition to Diablo
11 Canyon.

12 The other one, item three, we want to retain
13 the breakwaters, our marina. We want to find a
14 successor entity for that, and I know the panel's very
15 familiar with this, but those new to the discussion,
16 there is more volume and material in the breakwater are
17 jetties than there is in the entire nuclear facility.
18 So by repurposing that, one of our first moves to reduce
19 impacts, costs to our customers and retain something now
20 as functioning as habitat is to retain that breakwater
21 structure. Recent analyses and field work has shown
22 that the black abalone have taken home up into that
23 breakwater and so we have federally endangered species
24 living inside the crevices of that structure. Next
25 slide, please.

1 Additional things, transportation, that's going
2 to be one of the key drivers and then also reduction of
3 radioactivity at the site. This project, while there's
4 interesting tantalizing things about repurposing and
5 future generation and the transmission, at its core,
6 it's a radiological remediation project and that's our
7 essential mission. We're going to fold in other things
8 because it's the right thing to do, but the core mission
9 is to satisfy the Nuclear Regulatory Commission and
10 other agencies that we've fully remediated the site and
11 we're looking for clean leased criteria, unrestricted
12 use at the site. Next slide, please.

13 Again, the panel was right on -- early on this
14 and correct in conservation of the breakwaters. We
15 talked about that already and the cultural resources.
16 We want to have a light footprint when we do this work
17 and not just environmental impacts, but there is rich
18 cultural resources in this area that need to be
19 protected as part of the project. Next slide.

20 That's where I'll pause and I'll hand it over
21 to Ms. Strachan for the county.

22 MR. ANDERS: Trevor, this is an opportunity for
23 you to introduce your county team and discuss the county
24 staffing for this whole process.

25 MR. KEITH: Yeah. Thank you, Chuck.

1 So Trevor Keith again. So our staffing right
2 now, Susan Strachan is our Diablo Canyon decommissioning
3 manager in the planning and building department and
4 we're in the process of hiring two more staff to help
5 her in the, kind of, planning and building side and then
6 we have, kind of, our internal county team that includes
7 public works and a few other departments that will be --
8 as we kind of process through this permit application
9 will be along our side, as well, as the county team
10 make-up.

11 So with that, if we can get the PowerPoint back
12 up and I will turn it over to Susan to run through the
13 county processing side where we are today and where
14 we're going to go.

15 MS. STRACHAN: Thank you, Trevor. I just first
16 want to say thank you and tell you how happy I am to be
17 here. I think I'm literally San Luis Obispo's newest
18 resident. Moving truck arrives on Monday. So we just
19 got here, we're thrilled to be here. I am thrilled to
20 do this job.

21 Just for two seconds, my background is in both
22 local government and in managing the permitting of
23 utility scale energy project and I love working on
24 projects in the coastal zone. So it doesn't get better
25 than this for me from a job standpoint.

1 And I also quickly want to say thank you to the
2 panel. I have watched numerous panel videos and it has
3 been incredibly helpful to help me get up to speed on
4 the project. Could I get the next slide, please?

5 So I'm going to talk today about the permitting
6 process and California Environmental Quality Act
7 compliance. Next slide.

8 So this is just a quick overview of where we
9 are now and Tom covered a lot of that, but I'm going to
10 get into a little more detail. So PG&E's application
11 filed on March 29th has two components, the coastal
12 development permit application for the project area
13 within the coastal zone and then outside the coastal
14 zone a conditional use permit application.

15 When the county received the application, the
16 first thing we do is we make a referral with the
17 application to numerous agencies, state, local federal
18 level, tribes, school districts, other organization --
19 and I'll get into more detail on that in a minute -- to
20 get their input. The -- at the staff level, then we
21 begin what we refer to as a 30-day completeness review
22 and it's to look at the application and to determine is
23 there additional information that's needed for the EIR
24 consultant to then begin preparing the environmental
25 impact report.

1 So that review went from March 30th to April
2 28th, and as Tom said, on April 28th we issued a letter
3 of incompleteness or otherwise known from the county's
4 standpoint as information hold letter and then we
5 anticipate June 30th that we're going to get an
6 application supplement package responding to -- excuse
7 me -- the information needs. Once we get that package,
8 then that 30-day application completeness review will
9 begin on that new information. Next slide, please.

10 So this is a high level figure of the process
11 from beginning to end and so, again, PG&E files the
12 application. The application is posted to the county
13 website. So it's available to anyone for anyone to look
14 at. Again, we make -- county staff make the referrals
15 to the various county departments, state, local federal
16 agencies, community advisory council, and staff review
17 is basically where we are right now. We're at this
18 point where we're doing the completeness review and the
19 back and forth with PG&E to get the information needed
20 to make the application deemed complete.

21 The next step is then the beginning of the
22 California Environmental Quality Act process where the
23 consultant prepares the EIR. This is a key portion in
24 the process of public participation and I'll get into
25 details of what -- what events in the CEQA process

1 trigger public participation, and then, lastly, it
2 culminates in public hearing with the decision-maker and
3 Planning Commission for certification of the EIR and a
4 decision on the project. Next slide, please.

5 So this is just a list of the -- not a complete
6 list, but a list of agencies, et cetera, who receive the
7 application. On the left column, a lot of it is state
8 agencies. We have U.S. Fish and Wildlife Service at the
9 bottom, other -- which is a federal agency. Other
10 federal agencies included Army Corps of Engineers and
11 Bureau of Land Management. On the right-hand column,
12 Avila Valley Advisory Committee, tribes, numerous county
13 departments, community services, districts, affected
14 cities, school districts, Santa Barbara County, Santa
15 Maria, and I'll explain in a minute why those two
16 entities were included, Air Pollution Control District
17 and the San Luis Obispo Council of Governments. Next
18 slide, please.

19 So the current application status, as I said,
20 an informational letter was sent to PG&E on April 28th.
21 Some of the main items that will be -- that were asked
22 for will be included and they were things that PG&E
23 acknowledged in their application was they were going to
24 provide transportation details on truck, truck rail and
25 barge transportation. The application speaks of a Santa

1 Maria rail facility and there are two sites that are
2 being evaluated, one in unincorporated Santa Barbara
3 County and then one of the City of Santa Maria. That is
4 why those two entities receive the information -- excuse
5 me. I apologize -- the application referral is that to
6 give them a heads-up that there is information that will
7 be forthcoming that affect their jurisdictions.

8 Also, they will be providing information on
9 waste types and volumes, water use information, waste
10 chart -- wastewater discharge information. So those are
11 just some of the items that were included in that
12 information hold letter. Again, the responses in the
13 application supplement will be provided on June 30th and
14 will again begin to get another application for
15 completeness review at that time. Next slide, please.

16 So now we move on to what happens after the
17 application is deemed complete. Once it's deemed
18 complete, then the CEQA process begins. So -- and for
19 this project, we'll be preparing an environmental impact
20 report. San Luis Obispo County will be the lead agency,
21 meaning that we have that responsibility for preparing
22 that document. We have an environmental consultant
23 whose contract will go to the board in late June or
24 early July. A big component of this project is
25 coordination with responsible agencies. So these are

1 agencies, and Tom mentioned several, California Coastal
2 Commission, State Lands Commission, who have permanent
3 jurisdiction over the project. Additional agency -- or
4 jurisdictions would be Santa Maria, but if that's where
5 that rail facilities is, there's Santa Barbara County.
6 There's also an off-site facility in Pismo Beach. So
7 they would all be responsible agencies since they have
8 some permitting authority over the project.

9 And then I want to point out that one of the
10 absolute major tenants of California Environmental
11 Quality Act is public participation and so that's where
12 that activity is a focal point of the CEQA process and
13 I'll get into that in a minute.

14 And I also want to add that during the CEQA
15 process, we're in this information back and forth with
16 PG&E right now for application completeness; however,
17 there still -- there could be occasion even during the
18 development of the EIR that the environmental consultant
19 may need additional information. So there will be --
20 you know, that would also be a time where we would
21 involve PG&E to provide additional information. Next
22 slide.

23 So this is an overview of the EIR process
24 focusing on the major components of it and also touch on
25 the public involvement for these components. So, again,

1 application's complete, we start the EIR process. First
2 activity, issuing a notice of preparation. This is a
3 notice that goes out to everyone, agencies, saying we're
4 preparing an EIR, what do you need to have us cover in
5 that document.

6 So we've had a lot of discussion already with
7 the Coastal Commission and the State Lands Commission
8 for things that they need, but this could be for other
9 agencies the things that they want us to address. We'll
10 also be holding public scoping meetings. So, again, key
11 point for public involvement. This is an opportunity
12 for the public to get involved and to talk about what
13 they would like to see in the environmental document.

14 So then the draft EIR is prepared. Once that
15 comes out, the notice of availability is issued and then
16 there's a public review period again that happens. So,
17 again, another opportunity for public involvement. The
18 review period is a minimum of 45 days, but this is an
19 opportunity for the public to go through the document
20 and make comments on documents, things they may not
21 agree with, things they think should be corrected. That
22 is that opportunity to do that.

23 Then after the draft EIR comes out, comments
24 are received. By the close of that comment period, the
25 final EIR is prepared. The final EIR is basically

1 composed of responses to the comments on the draft EIR
2 and revisions to the draft EIR. Those two pieces
3 together comprise the final EIR. Once the final EIR is
4 out, then that's where that public hearing process
5 happens. It's for certification of the document. The
6 decision-making body, Planning Commission in this case,
7 adopts findings or a statement of consideration if
8 that's required. Again, another opportunity for public
9 involvement. This is a public hearing. So the public
10 can weigh in on that decision and their opinion on the
11 decision on the project. If the project is approved,
12 the Planning Commission also adopts a mitigation
13 monitoring reporting program. Once that county process
14 is done, if the county approves the project, then it
15 goes on to the responsible agencies for them to make
16 their permitting decisions on the project. Next slide.

17 So just some information opportunities for
18 public participation. We do on the county planning and
19 building website have information on Diablo
20 decommissioning. That's where there's links to access
21 the application. There's also a place to sign up on the
22 email list.

23 So, for example, at the time when we're going
24 to schedule the scoping meetings, we will send a blast
25 out to that email list for a notification of when those

1 meetings will be and where they will be, and, again, in
2 terms of EIR process opportunities, it's the scoping
3 meetings, draft EIR comment period and then at that
4 point where the EIR goes before the Planning Commission
5 for certification and project decision. Next slide,
6 please.

7 So I want to just touch a little bit on the
8 content of EIR. So from an EIR standpoint and going
9 along with information from PG&E, there's two phases for
10 the decommissioning. Phase one, 2024 to 2034 where the
11 focus is the removal of plant components, and then when
12 you get into phase two, 2035 to 2042, that is when it's
13 finishing and doing site remediation and restoration.
14 So that will be analyzed as a project DIR, basically
15 meaning that it's an EIR prepared for the development
16 project. Although, in this case, development is the
17 removal of the plant.

18 Now, phase three is where we're going to touch
19 on future sites and for this we will evaluate up to nine
20 alternative scenarios and they will be analyzed on a
21 programmatic basis. So with a program EIR, it's a
22 series of actions that characterize one large project
23 and it's that program is evaluated in the EIR. It's
24 referred to as a first tier document. So in the case of
25 a reuse option, you evaluate the reuse alternatives and

1 then later activities could include an actual
2 application for a permit to do something on the site
3 after the plant has been decommissioned and removed.
4 Next slide, please.

5 And then some more details on the content of
6 the EIR. These are some main areas that are included.
7 It has a project description, environmental setting and
8 analysis, and I'll get into in a minute the
9 environmental estuaries that are analyzed, discussion on
10 environmental impacts, mitigation measures to minimize
11 significant impacts, alternatives and cumulative
12 impacts. So you're looking at the project combined with
13 other projects in the area and cumulatively could there
14 be any impacts. Next slide.

15 So these are the environmental estuaries that
16 will be evaluated in the EIR. Something that's a little
17 bit different in this EIR, if you look in the left
18 column at the bottom where it's hazardous and
19 radiological materials, obviously most EIRs don't
20 include a discussion on radiological materials. This
21 one would. And then over on the right column,
22 recreation is in the EIR topic, but we will be including
23 public access since that's a focal coastal plan, coastal
24 act policy. Next slide, please.

25 Other considerations that will be included in

1 the EIR and these come directly from the Coastal
2 Commission and the State Lands Commission. So these are
3 all items that are important to them and required to be
4 included in the EIR for their permitting purposes. So,
5 again, this is where that early coordination with those
6 agencies comes into play. Next slide.

7 And cannot have a discussion on CEQA without
8 talking about CEQA mitigation. So mitigation can take
9 different forms. This slide just defines what a
10 mitigation measure can be. It can consist of avoiding
11 the impact all together, minimizing the impact or
12 limiting its magnitude, could be restoration,
13 rehabilitation, illuminating it over time or providing
14 substitute resources.

15 So, for example, a project that could impact a
16 wetland could, you know, buy credits and mitigation bank
17 for wetlands is one it's commonly used for to replace
18 substitute resources, and then I always have to point
19 out with mitigation, it has to have an essential nexus
20 to the impact and roughly proportional to the impact.
21 Next slide, please.

22 And so I do not have a specific schedule for
23 decommissioning. Once the application is complete, one
24 of the first things that will be done is to develop that
25 site-specific schedule. What I did hear was just put

1 together a generic schedule. The EIR can be done within
2 a year. It can also take longer than a year. So some
3 of the things that -- well, let me walk through this and
4 I'll talk about some of the things that can change the
5 schedule.

6 So, again, month one, application received
7 after deemed complete, then you get into the scoping,
8 but the EIR preparation can begin even before the
9 scoping because things like the environmental setting
10 can start to be prepared. So that work can begin
11 immediately. Draft EIR is issued, then you have your
12 comment period for 45 days, and then after the comment
13 period, it's the time required to prepare the final EIR.

14 So in terms of what can extend this schedule,
15 before I came here, I worked for Yolo County and we did
16 a program EIR on the county's cannabis land use
17 ordinance. We received over 900 individual comments on
18 that EIR. It took a long time to respond to 900
19 comments. So that's an example of where a schedule can
20 get extended.

21 Another one is where it can get extended if
22 there's changes to the project description. If the
23 consulting firm is far along in its analysis for the
24 project description changes, they have to go back and
25 make modifications to the work they've already done. I

1 always have this example of one EIR that we worked on
2 that the -- it was for a client. They changed their
3 project name right at the 11th hour, and it may seem
4 like a minor change, but when that project name is
5 throughout a voluminous document, it takes a while to
6 make all of those corrections. So little things like
7 that can serve as a reason to delay the time period of
8 the EIR. Next slide, please.

9 So that concludes my presentation, but I'm more
10 than open for any questions.

11 MR. JONES: I had one while the panel gears up,
12 which is just on the phase three, we've always talked
13 about it as a two phase, and that for the repurposing,
14 PG&E is not an applicant for a repurposing project.
15 That will be successor entity. I just wanted to bring a
16 little clarity to that.

17 MS. STRACHAN: Thank you, Tom. That's a good
18 point.

19 MR. ANDERS: Thank you, Susan.

20 Any questions of Susan or Tom? Panel members,
21 raise your hands if you have any questions. Okay.
22 We've got Kara and then Dena.

23 MS. WOODRUFF: Thank you, Susan. So it was
24 really more of a comment more than a question. The
25 application, I just want to say I encourage the public

1 to try to take a look at it. It is a huge document.
2 It's, I think, ten inches tall, very extensive and I
3 think overall really well-done and I thought it was
4 really particularly helpful to read Section 2 because it
5 gives you a great overview of all the issues surrounding
6 decommissioning. So if you want to get a great succinct
7 refresher on what's happening here, I really recommend
8 that people take a moment and check that out.

9 And in reading through the application myself,
10 I thought, overall, it was very informative and very
11 thorough, but I thought there were two sections in
12 particular that PG&E presented to the county that I
13 thought were really insufficient. The first section was
14 on the recreation and public access. As you recall from
15 Susan's list, this is one of the environmental issues
16 that is being considered by this process, and in that
17 section, there was no reflection of all the work that
18 has been done by the Engagement Panel. So I know
19 earlier Tom had described the many ways that the
20 application reflected the strategic vision prepared by
21 the Engagement Panel, but that didn't happen in this
22 section.

23 So, for example, we have had multiple meetings
24 and workshops talking about the future of the Diablo
25 Canyon lands, which are the 12,000 acres that surround

1 the plant, and we received hundreds of comments from
2 people saying that they wanted to see those lands
3 conserved, they wanted to see them protected in
4 perpetuity and ensure that there's some kind of public
5 access, including a coastal trail, and, yet, none of
6 those comments from the strategic vision were really in
7 the application itself. There's also no mention of the
8 dream initiative, which the County of San Luis Obispo
9 voters approved by 75 percent back in 2000 and that
10 called for the county and PG&E to conserve the Diablo
11 Canyon lands when the plant closed and, again, that
12 wasn't included in PG&E's application.

13 And there's also a whole history of
14 conservation attempts on Wild Cherry Canyon, which is
15 2,500 acres of the 12,000 acres of Diablo Canyon lands.
16 Again, that wasn't in the application. It should have
17 been because a lot of other issues regarding land use
18 were included in the application, but weren't nearly as
19 relevant as all the extensive history of public access
20 and conservation attempts on this land. So I really am
21 going to ask the county to take a look at that section
22 in particular and really augment it because there's so
23 much history there that just wasn't incorporated.

24 The second issue that I thought was really
25 inadequate as a layperson regards traffic. We know that

1 the decommissioning of Diablo is going to be an enormous
2 task to take apart all the structures and all the
3 facilities, put them on trucks or barges and get them
4 off site to their ultimate disposal, and when I looked
5 at that traffic section, I thought it was really
6 confusing. I didn't understand much of what the report
7 said, and at the end, the kind of conclusion is that
8 there wouldn't be much of an impact to the communities
9 of Avila Beach from all these trucks being transported
10 away from the site and I just -- my common sense tells
11 me that can't be the case.

12 So I'm really hoping that the county can take
13 some time and work with PG&E really augmenting that
14 traffic section so it's understandable to a layperson
15 reading it and that the conclusions just seem to reflect
16 what we all feel is common sense when you're taking tens
17 of thousands of trucks and driving them past Avila, a
18 town that's already challenged by traffic.

19 And then the last thing I wanted to mention
20 only because Susan brought it up is under CEQA when you
21 have a permit to do a project, there is mitigation and
22 there are limits to what kind of mitigation you require,
23 but on the PG&E site, there is so much history regarding
24 land conservation and mitigation. The Pecho Coast
25 Trail, the Buchon Trail, the 1,200-acre deed restriction

1 at Point San Luis, those are all protected as by way of
2 mitigation that PG&E provided for permits that were much
3 less significant than the permits needed here for the
4 this much larger project and so I'm going to really hope
5 and ask the county to think about this mitigation issue,
6 think about the history we have with the Diablo Canyon
7 lands with mitigation and really look at this project,
8 the biggest decommissioning -- the biggest EIR project
9 the county has ever faced and to really consider
10 seriously what mitigation is precedential here on the
11 land and really what the community has been asking for
12 for two decades now.

13 So that's it. Other than that, I really do
14 think it was a very quite useful document and I just
15 want to encourage the public to take a look at it, and
16 if nothing else, Section 2, which is the project
17 description. That's all. Thanks.

18 MR. ANDERS: Thank you, Kara.

19 I just want to remind everyone that the
20 application is on the county planning and building
21 website and there's a link to the application on the
22 Engagement Panel website, the DiabloCanyonPanel.org.
23 Under the resources tab, it's the second one down,
24 Diablo Canyon decommissioning land use application, and
25 that will take anyone right to the application on the

1 county's site.

2 So thank you, Kara, for your comments.

3 Dena, you had your hand up. Do you have a
4 question or comment?

5 MS. BELLMAN: I have a question and actually
6 Kara touched on some of what I was going to inquire
7 about, but this is actually for Trevor Keith.

8 In the past when you've talked about or
9 described mitigation, you've been really specific about
10 what the county wants to see or the limits to which
11 lesion will be allowed or considered and I don't know if
12 you can just refresh that -- that comment or the phrase
13 that you used to detail it, I think that would be really
14 helpful.

15 MR. KEITH: Sure. Yeah. Thanks. So we look
16 at as through the environmental process when we get into
17 kind of the impact sections, when we're looking at
18 mitigation to offset the impacts, it's really kind of
19 there's the nexus and that's kind of the impact and then
20 the mitigation needs to be directly to the impact. So
21 you've got to have the nexus between the mitigation and
22 the impact to show that you're going to reduce the
23 impact, and then I think it's also kind of what they
24 call the rough proportionality. So based on an impact, you
25 can't ask for something much greater than you would need

1 to actually, you know, reduce that impact. So those are
2 kind of the confines that we look at and so, you know,
3 as the areas in the impact section, you know, as we
4 review the information with a consultant when the
5 application's deemed complete, you know, and start
6 drawing up the mitigation to reduce any impacts that
7 kind of bubble out, those are kind of the confines that
8 we look in.

9 MS. BELLMAN: Thank you.

10 MR. KEITH: Yeah. You bet.

11 MR. ANDERS: Thank you, Dena.

12 I don't see any other questions. Trevor, do
13 you have any closing comments with regard to the coastal
14 development permit process?

15 MR. KEITH: I just want to say, you know,
16 again, thanks to the panel for having us back. We're
17 happy to come at each milestone to update you guys and,
18 yeah, I just would encourage folks to take a look at the
19 application and get on the list so you stay in touch.
20 Yeah. And thank you again to the panel and Chuck. I
21 think that's all that I have.

22 MR. ANDERS: Great. Thank you. Our next
23 agenda item is the PG&E update. Before we begin that
24 item, I would ask any of the meeting attendees from the
25 public to raise your hand now if you would like to make

1 public comment. The public comment period is after the
2 next agenda item. So let us know how many people would
3 like to make public comments. So if you would like to
4 say something to the panel and also be part of the
5 public record for this meeting, please raise your hand
6 now so we have an idea how many people would like to
7 speak.

8 So next item, PG&E update. Tom, Maureen, who
9 is going to do this one?

10 MS. ZAWALICK: Thank you, Chuck. I'm going to
11 kick it off. It's Maureen. Can you hear me okay,
12 Chuck?

13 MR. ANDERS: Yes, we can. Thank you.

14 MS. ZAWALICK: All right. And then I'll turn
15 it over to Tom and I know that we're -- next is the very
16 important public comments. So I'll be succinct and then
17 turn it over to Tom.

18 First and foremost, good evening, everyone.
19 It's great to be here. I want to start off with
20 welcoming our new members of the panel. It's great to
21 have you as part of this panel and also thank Lauren and
22 Alex for their service, their contribution to this
23 excellent panel. I'm so excited and very appreciative
24 of this panel. I think it's the best in the U.S. and
25 it's a very effective and collaborative, you know, panel

1 that provides important and significant input into a lot
2 of these topics we've been discussing tonight and other
3 meetings and venues.

4 You know, especially, I want to just tap into
5 the input that the panel has provided on the
6 decommissioning project in used fuel in areas such as
7 the request for proposal we talked about tonight on the
8 new spent fuel system and that impacts the timing of our
9 offload that has been invaluable and also the input on
10 personal development and permit. Kara, I appreciate
11 your comments and all that and in this forum that we can
12 embrace that feedback and make adjustments where we need
13 to, but that was a very comprehensive effort and we
14 factored in all the input and so forth from the
15 Engagement Panel.

16 The project itself, the decommissioning
17 project, is just going outstanding. Our preplanning
18 efforts to ensure a safe and smooth transition to
19 decommissioning and avoiding SAFSTOR is, you know, ahead
20 of schedule in many areas, ahead of schedule in all of
21 them. It's under budget and the team has been working
22 and is very committed to diligently making sure we meet
23 that objective of that smooth transition from operations
24 to decommissioning.

25 And then I'll turn it over to Tom in a second,

1 but I do want to make a public safety announcement here
2 on an unrelated topic, but from a PG&E perspective. You
3 know, we're facing another very hot, dry year, and with
4 fire season coming here, already the temperatures we've
5 seen in the Central Coast so far this week. So please
6 check out the public safety power shut-off website at
7 PG&E. It has tips on how to get notified and updating
8 your email and phone number and then also there's great
9 resources on the PG&E wildfire safety site on securing
10 your home and the perimeter and making sure you're ready
11 for fire season in these very dry, hot conditions. So
12 just wanted to put that plug in too because we're
13 always -- safety's our top propriety and wanted to add
14 that to everyone that's listening in tonight.

15 So with that, Tom, I'm going to turn it over to
16 you. There's a couple topics I know you wanted to touch
17 upon that we haven't tonight and then we can get to the
18 public comment section.

19 MR. ANDERS: Tom, before you start, I'd just
20 like to remind everyone that please turn your mic on
21 mute if you're not speaking. We do have some background
22 noise. That would be appreciated. Go ahead, Tom.

23 MR. JONES: Thanks, Chuck. And I'll confess I
24 think that was me getting ready for my big time on stage
25 here.

1 I'll give you a couple quick updates for the
2 public and one of them is on our funding decision, our
3 pending funding decision from Public Utilities
4 Commission. We have this five-letter acronym, the
5 NDCTP, the Nuclear Decommissioning Cost Triennial
6 Proceeding, and as the name suggests, every three years,
7 we submit a budget for what we think it takes to
8 remediate the site and then the CPUC adjudicates that
9 with public intervenors. It's a very formal rigorous
10 process and then there's a decision made about funds
11 that should be allocated for the project or not. So we
12 submitted what I would say is a nearly all parties
13 summary -- settlement to that that reduced our initial
14 request by almost a billion dollars, a little over 900
15 million, and with these diverse parties that are
16 agreeing, we thought we'd give the Utilities Commission
17 something that was quickly actionable. We don't have an
18 action yet. They've extended three times. So ours is
19 still slated for decision by September and I'll just
20 remind the panel and the public that the Utility
21 Commission issues what's called a proposed decision at
22 least 30 days in advance of that decision. So while
23 they talk about a mid-September decision time frame,
24 that means we should see something at the latest by
25 mid-August. I know we've talked about that before, but

1 you might recall when we didn't see that in February,
2 then a year after, the commission extended from March to
3 September. So August is when we really get good
4 clarity. Hopefully sooner. They don't have to go to
5 September, but if we don't hear something by mid-August,
6 then we could be in for a potentially realignment of
7 that schedule.

8 That did just happen last week to Southern
9 California Edison's pending decision. Theirs was a
10 little bit in front of us and theirs was extended for
11 the third time now out till late October. So, again,
12 over a year from when we would have estimated to have a
13 decision, but hopefully that settlement that PG&E and
14 the other parties came to is adopted by the Utilities
15 Commission.

16 Secondly, that can impact when we submit the
17 2021 NDCTP. So we're planning as though the settlement
18 is adopted because it's broad and it's diverse and I
19 think it took into account a lot of despaired interest
20 to better align the project. However, if that
21 decision -- let's say it comes out in late September and
22 it's a radical departure from what the parties to the
23 proceeding expect, we might have to adjust our
24 application to do that. Our team is starting to write
25 testimony now and line things up from your strategic

1 vision, from other input we've received from
2 contractors, what's going on in the coastal permit and
3 we have to align those things.

4 It's just the lay explanation is really simple.
5 Budget informs how much work you're going to do and the
6 work you're going to do is captured either in the NRC
7 licensing space or in the CEQA process for that
8 permitting and analysis. So those things are
9 inextricably linked. So we really hope that that is
10 adopted soon and that's how those things connect.
11 Dollars do impact the work that impacts the regulatory
12 requirements at the county, the Coastal Commission and
13 before the NRC.

14 And, lastly, we have a continued update on this
15 1,200-acre deed restriction and other things that are to
16 be recorded, including a lighthouse road easement, and
17 that is before the Coastal Commission now at the staff
18 level for adoption. They gave us some feedback at the
19 end of the year, a couple years ago actually, and we
20 revised and met all their criteria. The Port Harbor
21 District, which is independent and they have rights to
22 that Lighthouse Road, they have adopted the revision and
23 they've adopted -- they adopted it previously. The
24 Coastal asked for a change and so that independent
25 elected body is approved. We approved, all the

1 signatures are complete. Coastal has to concur that the
2 executed documents and they saw the drafts, we're not
3 surprising them, are in alignment with their expectation
4 and then they will be recorded into county.

5 The reason the road has to be recorded before
6 the conservation easement is that they're reflected in
7 one another. The conservation easement has a carve-out
8 for the road alignment and references that other
9 easement by incorporation. So we have to have the roads
10 recorded first. We're going to do them the same day.
11 We'll literally handwrite in the number from the county
12 assessor's office in the subordinate document.

13 So that's where those processes are in process
14 now and everything in our control are on time or a
15 little early and on or under budget. So we try to
16 navigate those swim lanes as best we can and happy to
17 answer any questions that the panel might have.

18 MR. ANDERS: Thank you, Maureen and Tom.

19 Does the panel members have any questions? I
20 don't see any hands going up. So let's go on to the
21 next topic. We are running a little late. So we had a
22 break scheduled right now, but we're nearing the end of
23 the meeting time. So I suggest we forego the break and
24 go directly into public comment, unless I hear an
25 objection. All right. Let's do that.

1 So right now we have four hands up from the
2 public and let's have two-minute comments from the
3 public if that makes sense to the panel members and our
4 first participant or member from the public comment is
5 Kalene Walker, followed by L. Swanson. I would like to
6 ask that the participants that want to make public
7 comment to state your name, please spell your name for
8 the benefit of our court reporter and the transcript and
9 also indicate where your residence is located.

10 So, Zeek, can we set that up?

11 ZEEK: I'm sorry, Chuck. Would you like me
12 to -- are you at the public comment?

13 MR. ANDERS: Yes, please. Our first speaker
14 would be -- oh, somebody disappeared, took their hand
15 down, would be L. Swanson and Neil Havlik.

16 Zeek: Okay.

17 MR. ANDERS: And Kalene put her hand back up.
18 I apologize for -- L. Swanson and Neil Havlik.

19 MS. SWANSON: This is L. Swanson. Do you hear
20 me?

21 MR. ANDERS: Yes, we do.

22 MS. SWANSON: Okay. Sorry I'm hiding. I
23 didn't mean to do that, but that's a nice rose. So I go
24 by my middle name. So Jane Swanson. Am I okay? Am I
25 being heard?

1 MR. ANDERS: Yes, you are.

2 MR. JONES: We can hear you, Jane.

3 MS. SWANSON: Okay. So I'm Jane Swanson. I
4 live in San Luis Obispo. I hope that is all I'm
5 supposed to say about myself. So I'll keep it brief.

6 First of all, I really want to compliment and
7 thank very much the members of the Engagement Panel.
8 This is volunteer work and the number of hours they put
9 in are beyond my comprehension. I've attended almost
10 all of the meetings over the years. I'm very impressed
11 with them. So I want to thank the current, past and
12 future members of the panel.

13 Secondly, I really want to second the
14 suggestion of Linda Seeley that a workshop be held that
15 includes Dr. Lam because we didn't get a chance to hear
16 as much from him as he has to offer. Not just Dr. Lam,
17 but also, you know, I would want PG&E and the county to
18 be present at that meeting. So that would be very
19 valuable. I very much appreciated the workshops held in
20 February of 2019 on the spent fuel storage. That was
21 very hopefully, also.

22 And then a question, which might be answered at
23 some other time, of Rod McCollum of the Nuclear Energy
24 Institute. He was very optimistic and advocating of
25 consolidated interim storage, but I am aware that that

1 project violates federal law because federal law states
2 that interim storage may not happen until and unless
3 there is a permanent repository. So I'm quite mystified
4 why there's this brouhaha about consolidated interim
5 storage because I don't see any permanent repository on
6 the horizon. So I just want to make sure everybody
7 listening to this meeting is aware of the fact that
8 consolidated interim storage in New Mexico and Texas is
9 not a legal proposition. So I don't understand why
10 that's even being put out there. So I'll let it go at
11 that and let other people have their turn. Thank you.

12 MR. ANDERS: Thank you, Jane. Our next speaker
13 is Neil Havlik, followed by Neil Pulido and Kalene
14 Walker.

15 MR. HAVLIK: Thank you, Mr. Anders. That's
16 spelled N-E-I-L, H-A-V, like in Victor, L-I-K, and I am
17 speaking to you tonight in my capacity as president of
18 the Board of Directors of the Coastal San Luis Resource
19 Conservation District. We are one of nearly 100 such
20 agencies throughout the State of California. Our
21 district covers the area of San Luis Obispo County from
22 Highway 41 in the north to the Santa Barbara County line
23 on the south and from the coastline of the Pacific Ocean
24 inland to the Los Padres National Forest, which, of
25 course, includes the Diablo Canyon 12,000 acres. We

1 offer engineering and natural resource advisory and
2 management services to our interested publics. This
3 includes civil engineering, not nuclear engineering,
4 which we've been hearing about tonight, but civil
5 engineering such as dealing with roads, water and
6 stormwater conveyance, and water impoundments,
7 including, but not limited to, stock water impoundments
8 and containment structures. We also provide natural
9 resource management and agricultural resource
10 management. These include things such as water quality,
11 water conservation, erosion control and soil
12 conservation, but very importantly, resource
13 conservation districts are one of the natural conduits
14 for the use of public money on private lands where those
15 public monies have a public benefit and water quality
16 and erosion control come immediately to mind and are
17 common in the nexi. Is that the right word? Are common
18 nexuses for the use of those funds. We just want to
19 apprise the panel of this information and the services
20 that our organization can provide. We do have
21 engineering expertise and natural resource expertise
22 available to us and these can be applied to, really, any
23 suitable portion of the Diablo Canyon lands, including
24 the power plant site itself and the surrounding lands,
25 and we would be delighted to be a participant in that.

1 So I just ask that you keep us in mind as you move
2 forward and we will be and will continue to be
3 participants in this process as it moves forward. Thank
4 you.

5 MS. WOODRUFF: Thank you, Neil. That's great.

6 MR. ANDER: Thank you, Neil.

7 Our next speaker is Neil Pulido, followed by
8 Kalene Walker.

9 MR. PULIDO: Thank you very much. I just have
10 a couple questions and thank you so much for letting me
11 participate. They're basic questions. Maybe you can
12 help direct where they should be addressed, but I hear
13 250,000 years as far as a half life for the radiation
14 and I'm hearing 80 years for the casks. I guess my
15 question is is that what provisions are being made for
16 future contractors years and years down the road if they
17 go bankrupt? And I'm speaking from the reference of oil
18 facilities and oil wells where they're abandoned and
19 bankrupt oil companies just walk away. I'd like to know
20 is that something that's going to be addressed?

21 And the second question I have is the current
22 location, I understand additional casks are going to be
23 put at that same pad, if you will, but what is the sea
24 level of that and what studies have been done as far as
25 a potential tsunami? I know there's been earthquake

1 studies. Thank you very much.

2 MR. ANDERS: Thank you, Neil.

3 Our next speaker is Kalene Walker.

4 MS. WALKER: Hello. Can you hear me?

5 MR. ANDERS: Yes, we can, Kalene.

6 MS. WALKER: Great. This is Kalene Walker.

7 I'm down in -- near San Onofre. I wish I had done the
8 research or had the time and known about canister
9 choices before I was made aware of the issue. I became
10 aware of the issue when the canister of the whole system
11 had already been purchased and so it's been an uphill
12 battle ever since, if you followed any of the drama that
13 unfolded there.

14 I'm curious why you have a four-year -- why
15 the -- those recommendations for a four-year cooling
16 time to get the fuel out of the pools. I think that's
17 really an arbitrary requirement that really limits a
18 very serious important option as far as your canister
19 cask choice.

20 Donna Gilmore of San Onofre Safety came and
21 spoke to your panel a couple years ago or whenever it
22 was when some industry representatives presented to you
23 and I think she outlined some fundamental differences
24 and there's two different types of containers globally.
25 Only two types of containers. There's thin wall

1 canisters and thick wall casks. The thin wall canisters
2 is what the industry is using and what the NRC is
3 allowing. They're extremely substandard. They vent
4 air. They cannot be stored in a building. The thick
5 wall casks can be stored in a building away from all of
6 the environmental hazards. It can be a harding
7 building. They are much more protected. It's like not
8 having a containment dome on a power plant. These
9 things are sitting out in the open. There's all sorts
10 of other things. These canisters, the NRC knows they
11 are prone to corrosion and cracking. There's no way to
12 inspect for corrosion cracking. Mr. McCollum from the
13 NEI stated that the San Onofre had the gold standard of
14 inspection repair because the Coastal Commission
15 approved our supposed inspection repair plan to
16 rationalize that the fuel was maintained in the
17 transportable condition, but the --

18 ZEEK: The two-minute time has passed.

19 MS. WALKER: Okay. Simply, the inspection is
20 only a visual assessment. I would highly recommend you
21 look up SanOnofreSafety.org and just do some research.
22 This is like the -- in perpetuity is the operative word,
23 and regardless of what happens with decommissioning,
24 this fuel and how it's stored, and there's the need for
25 repackaging, has not been factored in. I could go on

1 and on. Thank you so much.

2 MR. ANDERS: Thank you, Kalene.

3 Any other members of the public that want to
4 make any comments? Yes, Debbie Kinsinger.

5 MS. KINSINGER: Hi. My name is Debbie
6 Kinsinger. I'm a CEQA consultant from the San Diego
7 area, most of my experience with forest service, fish
8 and wildlife service and things like that.

9 I have a lot of questions about the interim
10 consolidated storage idea. First of all, the one that's
11 already been brought up about that there's no long-term
12 site, and as far as I understood, that this wasn't an
13 option until we had that that somebody else explained
14 better.

15 So, second, when -- I think it was Rodney was
16 explaining about the safety of the casks and about their
17 transportability, and just from what I've been learning
18 in San Diego with the casks that we have here, they're
19 too long to be put on -- on a rail car and they're also
20 too heavy for a rail to support. So when he talked
21 about, you know, transporting these all the time, we've
22 been doing it for years, to my knowledge, nothing like
23 the type of casks that are going to be storing these
24 fuels has ever been transported. And he talked about
25 being able to demonstrate that they could be repackaged.

1 To my knowledge, we don't know that they can be
2 repackaged. We have an example of a cask that -- and
3 how it could be used, but it's an example that doesn't
4 have fuel in it and so many questions that when -- I've
5 heard a couple of times people talk about this whole
6 idea about interim storage and how we are going to move
7 this material off site and I think that there's been
8 some misrepresentation about what is possible to do
9 based on what has been done. That's not consistent to
10 what we're going to try and do.

11 So what has been done is low level
12 transportation of low level, not high burn-up type of
13 fuels, and in containers that are not heavy casks.
14 Somebody said -- I thought there was something like
15 72,000 pounds per cask and I'm not sure that that's
16 accurate. That's just something I remember off the top
17 of my head, but anyway, there's so many questions and
18 when I listen to Rodney speak, it sounds so great, wow,
19 here's a great solution, but just what I have learned
20 about this in the past is, one, that interim
21 consolidated storage is not feasible and, two -- or it's
22 not legal, and, two, that a lot of the things he said
23 we've been doing and that it's -- that we're able to do
24 is not -- we're not able to do those things with the
25 type of casks that we have and the type of fuel that

1 they are enclosing. So --

2 ZEEK: Excuse me. Your two-minute time is up.

3 MS. KINSINGER: Thank you. I'm looking forward
4 to scoping meetings where we can bring this up and
5 hopefully make better choices.

6 MR. ANDERS: Thank you, Debbie. Janine Rands
7 has also raised her hand and would like to speak.
8 Janine?

9 MS. RANDS: Good evening. This is Janine
10 Rands, J-A-N-I-N-E, R-A-N-D-S. I live in San Luis
11 Obispo. We frequently drive out to Avila and my concern
12 is the whole driving and transportation.

13 MR. ANDERS: Janine, we're not hearing you, I
14 don't think. I don't about others, but I can't.

15 MS. RANDS: Let me go into a different room.
16 I'll have to go into a different room.

17 MR. ANDERS: That's better. Thank you.

18 MS. RANDS: This is Janine Rands from San Luis
19 Obispo and I'm concerned -- I'm making a call about the
20 transportation of anything related to the -- anything
21 toxic or anything related to withdrawal from the Diablo
22 plant, that it's a two-lane highway and it's also a huge
23 recreational site and that there are at least five blind
24 corners for even cars and bicycle riders. How are we
25 going to mitigate safety for all of the above and then

1 we add in trucks.

2 The other thing that I'm really concerned about
3 is the whole social justice issue of where these
4 materials might be transported, that the litigation for
5 keeping people that are -- the marginalized communities
6 where these materials are destined for, it's not just
7 and I hope the community and the communities where this
8 stuff is going, what get to be consulted. So thanks a
9 lot for this conversation.

10 MR. ANDERS: Thank you, Janine.

11 That's all the hands I have up right now from
12 the public attendees.

13 So panel members, any final discussion on --

14 ZEEK: Excuse me, Chuck. There is one more in
15 the queue.

16 MR. ANDERS: Oh, okay. Marty Brown. Sorry,
17 Marty.

18 ZEEK: Looks like we just lost him.

19 MR. ANDERS: Okay. It does look that way.

20 So let's go ahead, Panel, and any final
21 comments or discussion before we adjourn?

22 MR. LATHROP: It looks like Marty Brown is
23 back.

24 ZEEK: Let's try it.

25 MR. ANDERS: Marty, go ahead with your comment.

1 Two minutes. Marty, looks like you have your microphone
2 muted. Can you unmute your microphone, please?

3 ZEEK: It appears Marty's having technical
4 issues.

5 MR. JONES: Chuck, I think it's time to move to
6 the panel. We do want to hear from the panel for future
7 topics.

8 MR. ANDERS: Okay. Let's go ahead with
9 discussion. Any thoughts? Any final comments?

10 MS. SEELEY: I have something. This is Linda.
11 First of all, I want to thank all of the people who made
12 public comment and I can't wait till we can meet in
13 public again so the people can be present. Maybe next
14 time, I hope.

15 The other thing is that I just want to make one
16 clarification. Both -- this is for the information of
17 the panel. Both the governor of Texas and the governor
18 of New Mexico have written very strong letters in
19 opposition to consolidated interim storage and those
20 letters are important. I think that Rodney deemphasized
21 any opposition and emphasized how easy it will be and
22 the environmental justice issues are extremely important
23 for us to take into consideration. So let's not --
24 let's go ahead and have another -- have a good workshop.

25 And my other comment that I wanted to make is

1 that Dr. Lam was not really able to answer any questions
2 tonight. So it was quite disappointing to me and I
3 don't know how to -- we just tried to pack too much into
4 one meeting. That's all.

5 So, anyway, I just -- I'm very glad we had this
6 meeting. I think it was a good opening to all of the
7 incredibly important questions that we have about the
8 nuclear waste and, of course, the land use issues, but
9 if we don't take care of the nuclear waste, the land use
10 issues will be totally irrelevant because we won't have
11 any land to use. So that's all. Thank you very much.

12 MR. ANDERS: Thank you, Linda. Kara and then
13 David and then Dena.

14 MS. WOODRUFF: Well, I agree with Linda. I
15 just want to say thanks to everyone for participating
16 tonight and for your patience. I really can't wait
17 until we do this in person again.

18 I just wanted to make a quick announcement,
19 too. Just in the last couple days, a major announcement
20 was made by the Biden administration and Governor Newsom
21 and that is that it looks like the Central Coast and
22 specifically the waters offshore Morro Bay may be the
23 site of a future offshore wind turbine facility, which
24 would have the potential to bring in three gigawatts of
25 power and that's pretty significant. That would make up

1 for the power that is lost when Diablo closes, as well
2 as the power that was at one time created or generated
3 by the Morro Bay Power Plant. It's a really interesting
4 and very exciting opportunity. It is the opportunity
5 for us to move towards green clean renewable energy and
6 so I think it's an exciting issue and I hope the panel
7 will be spending some time in the future talking about
8 offshore wind energy. Very intriguing.

9 And then, finally, I just wanted to mention
10 PG&E had made a very brief update about the 1,200-acre
11 deed restriction near Point San Luis. I would like to
12 mention that the reason that restriction on the land
13 that will prevent development there is in place is that
14 in 2009, PG&E replaced its steam generator, and in so
15 doing, they received a permit to do that and the
16 mitigation required was to restrict these 1,200 acres.
17 That was 12 years ago and right now I guess the project
18 is in the hands of the Coastal Commission, and with a
19 short amount of time, they should be able to finalize it
20 and get that deed restriction on the books so that land
21 is forever protected, but I think 12 years is long
22 enough for us to wait on a permit condition, and if the
23 Coastal Commission is listening, I'm really asking you
24 to expedite this and get this done once and for all and
25 just put in place a permanent protection of that land,

1 which should have happened 12 years ago.

2 Again, thanks everyone for participating. See
3 you next time.

4 MR. ANDERS: Thank you, Kara. David and then
5 Dena.

6 MR. BALDWIN: Clearly, this is a discussion
7 that needs more time. Linda, I think, laid it out
8 pretty nice that maybe we had too big of an agenda on a
9 night like this. So I don't know if that should be in a
10 form of a workshop or how we do that, but I would
11 certainly be in favor of that. I, too, would have liked
12 to hear or at least have some time to ask questions or
13 heard questions bounced off Dr. Lam. I had several
14 questions myself, but I didn't ask them because I was
15 trying to be -- you know, keep the thing moving along.
16 I know we seemed -- our periods for discussion seemed to
17 be way too short tonight. We always run up against
18 deadlines when we have these discussions, but tonight
19 seemed more difficult than most. So I hope we can take
20 that on, and, clearly, these are issues that are
21 really -- have a lot of deep importance to the
22 community, as they should.

23 The other thing I wanted to mention is it's not
24 really the aim of this board, but I've been getting more
25 and more comment from folks about all kinds of things

1 along the lines of, well, Diablo is going to continue to
2 operate and Diablo is going to be sold to someone else
3 who will operate it, you know, certain metrics are not
4 being met by the state and the grid and those are going
5 to cause Diablo to continue to operate for some years
6 after '24, '25 and, of course, you know, sometimes I'm
7 asked, you know, is that what you guys are discussing
8 over there at the Engagement Panel and, of course, I
9 tell them, no, that's not been our discussion, that's
10 not been anything I've heard, but it sure seems like
11 this large amount of kind of chatter. Maybe some of my
12 fellow panelists are hearing the same thing, I don't
13 know, but I think we should address that or PG&E should
14 maybe and we should have --

15 MS. DANOFF: A good topic.

16 MR. BALDWIN: -- some way to reply to those
17 comments in a way that's across the board for this panel
18 so that we have a similar understanding.

19 MR. JONES: David, I think we made numerous and
20 what I would characterize as definitive statements that
21 the current license life is the operational period for
22 the Diablo Canyon. We've done so at every public venue
23 and there's been numerous media coverage. I do think
24 there's still hope from some in the community that
25 that's not the case, but that is the case in the future

1 for the Diablo Canyon. So with that finite date for
2 operations, our goal is to transition into
3 decommissioning and I'll remind the panel and those
4 participating that not only did the Public Utilities
5 Commission weigh in on that as the retirement strategy
6 through the joint proposal, but with Senate Bill 1090,
7 the California legislature also codified that that was
8 the retirement plan and Governor Brown signed that into
9 law.

10 So it doesn't get much more clear than that,
11 but the message isn't received by some that would like
12 to see it run longer, but that's where we're at.

13 MR. BALDWIN: Thanks, Tom.

14 MR. ANDERS: Thank you, David.

15 MS. ROSALES: Yeah, and I think it's a valid
16 point, David, in terms of retraining and programs that
17 Diablo Canyon has in terms of getting employees into
18 other careers. So I think there's a lot of value in
19 that. I think we move forward in that.

20 MR. ANDERS: Thank you.

21 Dena, looks like you're the last person
22 standing, so to speak. So final comments.

23 MS. BELLMAN: I think I have a little different
24 perspective, Linda. I think for me, while I know you
25 were really excited about getting these questions

1 answered, I think the different perspectives on the
2 topic was a really good set-up for a workshop or some
3 type of more in-depth conversation. I know especially
4 at this time of night, sometimes it's difficult to
5 absorb a lot of that technical information. So I was
6 really grateful to have the variety of speakers on the
7 topics. So I'm really looking forward to the future
8 when we are able to have a better -- you know, more
9 in-depth conversation and I feel like this really set us
10 up for that. So I'm very grateful for that opportunity.

11 And I think I just want to say thank you to
12 everyone and welcome again to our new panel members and
13 you're off with a bang. This was a big one and I really
14 do hope that we get to meet in person in the future even
15 if it's just the panel because I think there's a lot of
16 conversation that can't always happen over Zoom. So
17 thank you everyone and thank you for everyone who is
18 listening in and who has asked questions. We really
19 appreciate it. Thanks.

20 MR. ANDERS: Thank you, Dena.

21 And speaking of upcoming panel meetings, I just
22 want to go over the scheduled panel meetings for this
23 year, but first I want to remind everyone that on June
24 23rd and 24th, we have the Diablo Canyon Independent
25 Safety Committee meeting, and based on what Dr. Lam

1 indicated, that meeting may be an in-person meeting
2 usually held at Avila Beach. So June 23, 24, Diablo
3 Canyon Independent Safety Committee meeting.

4 The next scheduled Diablo Canyon
5 Decommissioning Engagement Panel meeting is August 25th
6 where we will talk about facility repurposing and Diablo
7 Canyon lands update. You may choose to hold a workshop
8 before or after that on spent fuel management.

9 And then we also have kind of an unscheduled
10 meeting and that would be -- and this could happen
11 sooner or it could happen later, but it's -- the panel
12 has agreed to hold a public panel meeting within ten
13 days of the CPUC's announcement on their preliminary
14 ruling on the 2018 NDCTP. So as soon as the CPUC makes
15 that preliminary ruling, the panel will hold a public
16 meeting within, essentially, two weeks, announcements
17 that will provide the opportunities to discuss what the
18 ruling is and the implications of that ruling and
19 provide the opportunity for the public to make comments
20 back to CPUC before they make their final ruling.

21 So those are the upcoming meetings and I would
22 just like to also thank everyone for attending and a
23 reminder that recording of this meeting will be posted
24 on the Engagement Panel website and a transcript will
25 also be available in approximately ten days to two weeks

1 and we'll also post the presentation slides that you saw
2 tonight on the panel website.

3 So with that, I don't hear any further
4 comments. Let's consider this meeting adjourned and
5 everyone have a good what's left of this evening. Thank
6 you all for attending and I guess we don't have to say
7 travel safely, but good night, everyone.

8 (The proceedings adjourned at 9:08 p.m.)

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

REPORTER'S CERTIFICATE

STATE OF CALIFORNIA) SS.

I, MELISSA PLOOY, Certified Shorthand Reporter,
licensed in the State of California, holding CSR License
No. 13068, do hereby certify:

That said proceedings was verbatim-reported by me
by the use of computer shorthand at the time and place
therein stated and thereafter transcribed into writing
under my direction.

In compliance with Section 8016 of the Business and
Professions Code, I certify under penalty of perjury
that I am a Certified Shorthand Reporter with License
No. 13068 in full force and effect.

WITNESS my hand this 8th day of June 2021.



MELISSA PLOOY, CSR#13068

<hr/> 1 <hr/>	230KV 70:8	500,000 69:24
1,200 111:16	23rd 61:2	500KV 69:25
1,200-acre 87:25 96:15 111:10	24 113:6	58 9:22 10:25 32:1
10 15:18 54:18 69:3	24-hour-a-day 12:10	5:37[sic] 61:24
100 31:22 45:16 100:19	24th 61:2	<hr/> 6 <hr/>
100-year 52:21	25 113:6	600-mile-an-hour 50:9
1090 114:6	250,000 59:9 102:13	<hr/> 7 <hr/>
11 61:8	27th 68:21	72 31:19 32:6
11th 84:3	28th 74:2 75:20	72,000 106:15
12 111:17,21 112:1	29th 73:11	73 45:19
12,000 85:25 86:15 100:25	<hr/> 3 <hr/>	75 86:9
15 54:18	3,000 45:19	750-acre 64:23
1990s 39:15	3,000-page 67:4	7:42 61:25
<hr/> 2 <hr/>	30 45:24 94:22	<hr/> 8 <hr/>
2 85:4 88:16	30-day 73:21 74:8	80 102:14
2,500 86:15	304 38:3	8:20 31:4
20 31:21 56:7 60:5,7	304-L 38:3	<hr/> 9 <hr/>
2000 86:9	30th 74:1,5 76:13	900 83:17,18 94:14
2000s 39:14	316 38:3	<hr/> A <hr/>
2004 31:20	32 15:20 32:2	abalone 70:22
2009 111:14	35 43:12	abandoned 102:18
2018 41:20	350-million-dollar 22:15	aboard 55:25
2019 11:10 99:20	<hr/> 4 <hr/>	absolute 77:10
2020 17:8	4 15:18	absolutely 30:4 51:1
2021 95:17	40 32:7 45:14	absorbed 29:7
2022 32:12 34:8	40-year 32:9	accelerates 25:3
2023 17:22	400 22:16	acceleration 41:17
2024 31:21 66:7 80:10	41 68:23 100:22	acceptable 52:23
2025 18:5	42 68:24	acceptance 14:25 35:11 48:4
2034 80:10	45 78:18 83:12	access 18:9 79:20 81:23 85:14 86:5,19
2035 80:12	<hr/> 5 <hr/>	
2042 80:12	5 9:17	
22 43:12	50 64:23	
230,000 70:8		

accommodate 24:10	adjust 95:23	agreement 14:12 19:10 20:2 41:21
account 95:19	adjustments 21:19 92:12	agricultural 101:9
accumulation 15:21	administration 44:1,4,5,8 50:24 110:20	ahead 9:11,16 10:16 13:15 25:16 31:13 38:12 42:23 54:9 60:14 62:19 63:7,11 92:19,20 93:22 108:20,25 109:8,24
accurate 36:5 57:13 106:16	administration's 43:24	aim 112:24
achieve 23:21	administrator 30:21	air 75:16 104:4
acknowledged 75:23	admissible 55:2	Alex 91:22
acres 85:25 86:15 100:25 111:16	admit 55:24	align 95:20 96:3
acronym 94:4	adopted 95:14,18 96:10,22,23	alignment 97:3,8
act 33:1,7,11 34:18 40:7 73:6 74:22 77:11 81:24	adoption 96:18	alive 56:4
action 18:1 35:12 48:22 50:25 53:6,10 94:18	adopts 79:7,12	Alliance 47:17,23
actionable 94:17	advance 43:16 94:22	allocated 94:11
actions 80:22	advanced 44:2	allotted 56:14
active 27:1	advances 12:4 56:7	allowed 89:11
activities 10:11 31:16 32:18,19, 20 33:14,20 34:11 36:8,18 37:17 38:4 42:19,22 81:1	advantageous 54:22	allowing 41:16 104:3
activity 17:24 18:2 77:12 78:2	advised 30:20	ALMAS 42:6 52:4
actual 16:18 81:1	advisor 18:20	alternative 22:22 53:6,11 80:20
adamant 58:22	advisory 36:2 74:16 75:12 101:1	alternatives 80:25 81:11
adaptive 44:18 50:14	advocate 23:2,23	amount 37:4 54:8 59:8 111:19 113:11
adaptive-based 44:22	advocates 19:3	ample 40:11
add 77:14 93:13 108:1	advocating 99:24	analyses 53:2 70:21
adding 13:6	affect 76:7	analysis 67:8 81:8 83:23 96:8
addition 70:10	affected 75:13	analyzed 80:14,20 81:9
additional 35:15 38:10 47:23 49:3 64:21 68:19 69:17 71:1 73:23 77:3,19,21 102:22	agencies 32:23 66:23 67:16 68:13 71:10 73:17 74:16 75:6,8, 10 76:25 77:1,7 78:3,9 79:15 82:6 100:20	anchored 31:23
address 21:16 22:7 38:10 52:16 57:12 59:11 68:13 78:9 113:13	agency 19:3 23:8 55:1 64:7 66:21 67:2,11 75:9 76:20 77:3	ANDER 102:6
addressed 52:18 68:4,14 102:12,20	agency's 18:21	Anders 9:5,16 10:3,19 13:9,12 18:12 20:8,16,22 24:1 25:13 27:6 30:18 31:13 38:7 42:4,16 43:1 53:24 56:12 60:9,17 61:21 62:2 63:2,11 71:22 84:19 88:18 90:11, 22 91:13 93:19 97:18 98:13,17,21 99:1 100:12,15 103:2,5 105:2 107:6,13,17 108:10,16,19,25 109:8 110:12 112:4 114:14,20
addressing 19:23	agenda 9:7,16 20:18 30:19 62:11 63:4 90:23 91:2 112:8	Andrews 47:19
adequate 35:23 38:11	aging 33:22 34:22,25 35:3,7,10, 23 45:1 46:21 47:11	announcement 44:2 93:1 110:18,19
adequately 13:4	aging-related 35:24 37:6	
adjourn 108:21	AGP 30:20 51:22	
adjudicated 55:4	agree 78:21 110:14	
adjudicates 54:14,18 94:8	agreed 39:1 65:20	
	agreeing 94:16	

announcements 69:16	argument 57:5	
answers 69:7	Army 75:10	B
anticipate 31:7 74:5	arrives 72:18	back 14:7 18:11 20:7 33:9 41:2
anticipated 40:21	arrow 34:2 66:24	44:8 49:1 53:24 54:18 60:13
apologize 20:22 30:23 76:5 98:18	art 47:1	61:24 62:2 63:8,9,13 72:11 74:19
apparently 13:18	aspect 37:7 38:6	77:15 83:24 86:9 90:16 98:17
appeal 56:3 65:11	aspects 14:4,10,16 15:4 28:25	108:23
appealed 68:7	assemblies 15:20 32:2	backdrop 44:5
appears 109:3	assembly 32:3	background 48:11 72:21 93:21
applicable 33:1 34:22 35:21	assessment 17:2 21:14,24 23:22 52:7,15 104:20	backlog 69:5
applicant 66:25 67:10 68:2,7,12 84:14	assessments 52:25	bad 57:16
application 32:16 33:25 34:6,9, 15,20 36:5 63:6 64:2,4 66:10,17	assessor's 97:12	Bakersfield 70:1
67:2,4,11,25 68:13 69:10,12 72:8	assistant 63:16	balance 58:25 59:10
73:10,12,14,15,17,22 74:6,8,12, 20 75:7,19,23,25 76:5,13,14,17	association 43:10	BALDWIN 112:6 113:16 114:13
77:16 79:21 81:2 82:23 83:6	assume 68:7	bank 82:16
84:25 85:9,20 86:7,12,16,18	assumed 40:18	bankrupt 102:17,19
88:20,21,24,25 90:19 95:24	assumes 68:5	Barbara 75:14 76:2 77:5 100:22
application's 78:1 90:5	assumption 39:8	barge 75:25
applications 47:20 66:18	assumptions 36:4	barges 87:3
applied 101:22	attempts 86:14,20	based 12:23 89:24 106:9
appreciated 93:22 99:19	attend 42:1 61:4,5	basic 102:11
appreciative 61:18 91:23	attended 99:9	basically 74:17 78:25 80:14
apprise 101:19	attendees 30:25 31:1 62:3 90:24 108:12	basis 80:21
approach 50:14	attending 42:2	battle 103:12
approval 17:14,21 18:4 54:16 55:19 65:17 66:1 68:9	attraction 52:12	Bay 33:9 110:22 111:3
approvals 14:25 15:2 66:7	attributes 21:8	Beach 61:2 64:22 77:6 87:9
approve 59:13,24 60:4	augment 86:22	begin 11:14 63:14 73:21,24 74:9 76:14 83:8,10 90:23
approved 46:24 79:11 86:9 96:25 104:15	augmenting 87:13	beginning 74:11,21
approves 79:14	August 95:3	begins 76:18
approximately 25:2	authority 21:22 77:8	behalf 63:18 69:14
April 74:1,2 75:20	availability 78:15	belabor 50:4
arbitrary 103:17	Avila 61:2 75:12 87:9,17 107:11	believer 57:18
area 24:23 41:6,7,8,9 65:9,13,15 71:18 73:12 81:13 100:21 105:7	avoiding 82:10 92:19	believes 47:15
areas 70:5 81:6 90:3 92:6,20	aware 41:14 43:17 99:25 100:7 103:9,10	BELLMAN 89:5 90:9 114:23
	awareness 15:24 24:20 38:5	belongs 39:22
		bench 54:13
		benefit 98:8 101:15

benefits 58:19

bet 90:10

bicycle 107:24

bid 22:5

bidder 17:15

Biden 110:20

bifurcates 65:3

big 76:24 93:24 112:8

biggest 30:14 88:8

Bill 42:5 52:2,3 114:6

billion 94:14

bills 48:15

binding 35:21

bit 17:12 24:18 55:8,10 56:5
58:11 60:15 61:19 68:17 80:7
81:17 95:10

black 70:22

blast 79:24

blind 107:23

blocked 48:21

blue 34:16 44:9,11

board 36:2 54:17 55:19 76:23
100:18 112:24 113:17

boat 47:11

body 52:7 55:16 79:6 96:25

books 111:20

bottom 75:9 81:18

bounced 112:13

boundary 58:23,24 59:22 64:20

bounded 37:8

box 66:25

boxes 17:7

break 51:21 60:22 61:23 97:22,
23

breakwater 70:16,20,23

breakwaters 70:13 71:14

bring 23:17 62:20 84:15 107:4
110:24

bringing 13:1 24:11 45:10

broad 95:18

brochure 52:25

brought 87:20 105:11

brouhaha 100:4

brown 16:24 108:16,22 114:8

bubble 90:7

Buchon 87:25

budget 49:5 92:21 94:7 96:5
97:15

build 38:15

building 41:5 62:15 72:3,5 79:19
88:20 104:4,5,7

built 36:23 55:21,22 57:10

burden 67:10 68:12

Bureau 75:11

buried 60:1

burn-up 14:20 37:7,9,10 106:12

burning 56:15,22

business 48:1,9,23 54:23

buy 22:19,22 82:16

buying 9:20

C

California 10:8 17:3 18:20 22:24
28:11 30:13 32:23 33:4 36:11
46:24 64:16 65:12,17,19,20 70:6
73:6 74:22 77:1,10 95:9 100:20
114:7

call 19:14 66:17 69:24 89:24
107:19

called 55:18 65:15 86:10 94:21

calls 67:4

campaigns 32:1

Canada 50:17

canister 15:19,20 24:12,16 30:2
32:3 37:15 103:8,10,18

canisters 12:7 21:7,24 22:16,17
24:9 28:19 29:10 32:2 33:23
36:23 37:5,16,22 104:1,10

cannabis 83:16

Canyon 10:12 11:20 14:17 30:2
31:14 33:12 35:22 36:11 39:11
43:15 54:14,16 57:1 59:13 60:4
61:1 65:18 67:20 69:20,25 70:11
72:2 85:25 86:11,14,15 88:6,24
100:25 101:23 113:22 114:1,17

capability 15:15 25:5 26:13 27:3,
19 29:14

capable 12:11 55:14

capacity 12:7,14 70:7 100:17

capture 27:3

captured 96:6

car 22:19,20,23 105:19

care 110:9

careers 114:18

cargo 49:23

cars 107:24

carve-out 97:7

case 57:13 79:6 80:16,24 87:11
113:25

cases 48:23

casing 30:3

cask 10:7 11:7,18 12:5,15,17,22,
24,25 13:3,14 14:10,13 16:5
23:13 29:9 30:10 40:15 47:2 50:8
51:6 59:17 60:1,4 103:19 106:2,
15

casket 25:22 26:2

caskets 25:20,24 26:5

casks 9:22 10:25 11:8 12:11,12
28:19 29:21 30:1 32:2 33:23 37:5
39:9 40:4 46:4 47:7 59:14 102:14,
22 104:1,5 105:16,18,23 106:13,
25

cast 29:24

catch 42:10

CEC 17:4,10

central 58:23 93:5 110:21

centralize 45:3

centralized 55:16

CEQA 62:12 66:21 74:25 76:18

77:12,14 82:7,8 87:20 96:7 105:6	clarification 109:16	commission 10:8 17:3,21 18:3, 20 19:12,21 22:24 32:14,23 33:4, 7,10,14,15 34:10,15,17 35:18 36:7,11 38:17,20 44:9,11 46:25 52:6,18 64:14,16,17,24 65:1,12, 18,19,20 67:23 68:8,10 71:9 75:3 77:2 78:7 79:6,12 80:4 82:2 94:4, 16,21 95:2,15 96:12,17 104:14 111:18,23 114:5
certificates 38:2	clarify 24:14	Commission's 19:6,25 34:24
certification 33:6 75:3 79:5 80:5	clarity 84:16 95:4	Commissioning 17:24
cetera 75:6	Class 11:22 40:18 41:5,12 42:7	commitment 43:24
chair 60:25	clean 29:9 71:11 111:5	committed 43:22 92:22
challenge 36:3	clear 26:23,25 35:4 39:6 114:10	committee 10:12 36:12 48:16 61:1 75:12
challenged 87:18	client 84:2	common 45:4 87:10,16 101:17
challenges 26:21 46:14,15	close 60:18 78:24	commonly 82:17
chance 99:15	closed 86:11	communicated 16:1
change 27:17 40:20,23 41:15 44:21 83:4 84:4 96:24	closely 49:9	communities 48:11 57:8,25 60:8 87:8 108:5,7
changed 21:4 41:14 56:6 84:2	closes 111:1	community 19:2 20:4 30:12 44:19 45:8 57:22 69:14,17 74:16 75:13 88:11 108:7 112:22 113:24
chapters 29:6	closing 60:11,21 90:13	companies 45:22 48:1,5,8 102:19
Chara 18:21	co-nrc 55:1	company 39:16 43:11
characterize 80:22 113:20	Coast 56:18 87:24 93:5 110:21	comparable 30:10
chart 66:3 67:18 76:10	coastal 10:23 32:23,25 33:4,6,7, 10 34:17 38:16,20 46:25 62:12,13 63:5 64:16 65:4,11,12,17,19 66:7, 9,16 67:20,23 68:8,10 72:24 73:11,13 77:1 78:7 81:23 82:1 86:5 90:13 96:2,12,17,24 97:1 100:18 104:14 111:18,23	comparative 52:8
chart's 67:18	coastline 57:2 100:23	compare 53:5
charts 69:18	Cochran 10:7 17:11 18:12,17,19 20:8,13,15 21:2,12 23:2 28:6,20 29:19	comparison 24:23
chat 30:21,25 62:4	codified 114:7	competition 45:25
chatter 113:11	collaborating 17:4,10	competitive 45:21 46:19
cheap 22:19,22	collaboration 20:1 50:16	complete 56:2 67:11 74:20 75:5 76:17,18 78:1 82:23 83:7 90:5 97:1
check 26:1 85:8 93:6	collaborative 18:13 91:25	completed 32:1
Cherry 86:14	column 75:7,11 81:18,21	completeness 73:21 74:8,18 76:15 77:16
chime 39:5	combination 35:20	complex 61:17
choice 103:19	combined 81:12	compliance 73:7
choices 103:9 107:5	comment 29:21 31:2,3 34:12 40:22 54:23 65:22 66:14 78:24 80:3 83:12 84:24 89:4,12 91:1 93:18 97:24 98:4,7,12 108:25 109:12,25 112:25	compliment 99:6
choose 46:2	comments 9:6 17:5,6 18:13 31:5 33:18,19 34:2 54:5 60:11,21 62:5, 8,9 66:15 78:20,23 79:1 83:17,19 86:1,6 89:2 90:13 91:3,16 92:11 98:2 105:4 108:21 109:9 113:17 114:22	component 19:18 34:21 64:13 76:24
choosing 49:12		
Chuck 9:15 10:4 13:21 18:11,18 20:7,19 30:17 42:24 51:18 53:24 61:18 63:10 64:1 71:25 90:20 91:10,12 93:23 98:11 108:14 109:5		
CIO 63:16		
cities 75:14		
City 76:3		
civil 101:3,4		
claims 57:12		

components 21:17,18 35:6,9
69:12 73:11 77:24,25 80:11

comports 58:7

composed 79:1

comprehension 99:9

comprehensive 92:13

comprise 79:3

computer 9:25

concern 26:15 30:5,15 57:14
107:11

concerned 107:19 108:2

concerns 28:18,25

conclude 60:20

concludes 84:9

conclusion 50:22 56:11 87:7

conclusions 87:15

concrete 30:3 46:11,18 50:8

concur 67:12 97:1

concurrent 66:5

concurrently 66:20

condition 104:17 111:22

conditional 73:14

conditions 38:25 93:11

conducted 66:12

conduits 101:13

conference 19:13

confess 93:23

confidence 35:22

confidential 26:8

confinement 12:6

confines 90:2,7

confirmation 49:6

confused 41:11 60:15

confusing 87:6

conjecture 23:10

connect 96:10

consensus 54:15 57:4 59:12

consent 48:10,19

consent-based 43:22 44:10,13
50:19

consents 48:12

conservation 71:14 86:14,20
87:24 97:6,7 100:19 101:11,12,13

conserve 86:10

conserved 86:3

consideration 11:19 15:7 17:3
20:6 22:3 27:14 33:24 35:14
37:11 41:13 49:13 79:7 109:23

considerations 36:20 81:25

considered 37:24 38:2 85:16
89:11

consist 82:10

consisted 19:15

consistent 14:11 106:9

consolidate 47:16

consolidated 39:11 43:15 44:24
47:15 49:8,21 50:20 51:9 52:21
53:5,8,9,11,18 56:25 57:15 99:25
100:4,8 105:10 106:21 109:19

constantly 26:4

constrained 23:11

constructed 40:15

construction 50:15

consult 69:3

consultant 65:22 67:15 73:24
74:23 76:22 77:18 90:4 105:6

consultation 20:1

consulted 33:3 108:8

consulting 83:23

containers 103:24,25 106:13

containment 101:8 104:8

contemplated 57:17

content 64:5 80:8 81:5

contention 56:3

contentions 55:2

contentious 28:7

contents 26:7

continue 20:3 102:2 113:1,5

continued 19:24 45:14 52:19
53:14 96:14

continues 26:16

continuing 17:9

contract 17:15,16 76:23

contractors 12:21 13:1,2 96:2
102:16

contribution 91:22

contributions 9:2,4

control 75:16 97:14 101:11,16

conundrum 45:17

convective 26:25

conversation 108:9

conveyance 101:6

conveyances 49:18

cool 26:16

cooling 22:4 24:25 25:3,9 26:25
27:21 29:5,7,15 41:20 103:15

coordination 19:25 66:22 76:25
82:5

coordinator 18:22

copy 33:9

core 19:18 23:4,23 71:5,8

cores 19:22

corners 107:24

Corps 75:10

correct 31:12 71:14

corrected 78:21

correction 10:21 35:12

corrections 84:6

corrective 35:12

corrosion 36:24 37:3 38:3
104:11,12

cost 22:16 94:5

costs 53:9 70:19

council 74:16 75:17

countries 49:20,21 50:13

country 30:14	curve 69:5	decommissioned 81:3
county 32:24 38:17,20,23 42:9 62:16 63:15,18,19 64:6,15 65:7, 10,18 66:18,20 67:4,5,9,15,24 68:19 69:23 71:21,23 72:6,9,13 73:15 74:12,14,15 75:12,14 76:3, 20 77:5 79:13,14,18 83:15 85:12 86:8,10,21 87:12 88:5,9,20 89:10 96:12 97:4,11 99:17 100:21,22	customer 69:21,22,23	decommissioning 13:23 14:12 16:3 20:5 28:12,15 41:7 62:14 63:18 72:2 79:20 80:10 82:23 85:6 87:1 88:8,24 92:6,16,19,24 94:5 104:23 114:3
county's 66:8 69:8 74:3 83:16 89:1	customers 70:10,19	decrease 15:10
couple 20:19 38:14 40:17 44:15 51:21 66:9 69:18 93:16 94:1 96:19 102:10 103:21 106:5 110:19	<hr/> D <hr/>	deed 87:25 96:15 111:11,20
couple-minute 67:21	damage 29:6,11	deem 68:14
court 98:8	damaged 12:15	deemed 19:21 38:17 74:20 76:17 83:7 90:5
cover 14:2 33:1 78:4	dangerous 57:24	deemphasized 109:20
coverage 113:23	DANOFF 27:10 28:3,17 29:18 113:15	deep 53:22 112:21
covered 73:9	dark 34:16	defects 37:11
covers 100:21	data 47:3	defense 46:12 49:25
CPUC 16:25 94:8	date 114:1	defer 19:11 28:14
crack 59:19	David 110:13 112:4 113:19 114:14,16	deficiencies 68:14
cracking 37:3 38:4 104:11,12	day 26:23 68:21 97:10	defined 23:20
cracking-resistant 36:24	days 78:18 83:12 94:22 110:19	defines 82:9
created 111:2	dead 55:16	defining 44:15
creating 45:7,9	deadlines 112:18	definitive 113:20
creations 14:8	dealing 101:5	degradation 35:3,10,24 37:6 45:5
credits 82:16	Debbie 105:4,5 107:6	delay 84:7
crevices 70:24	debris 29:9	delayed 45:17
criteria 35:11 71:11 96:20	decade 40:7	deliberation 68:15
critical 19:3,4	decades 88:12	deliberations 43:6
culminates 75:2	decarbonization 43:25	delighted 101:25
cultural 71:15,18	decarbonize 50:23	deliver 40:12
cumulative 81:11	decay 15:12 26:16 27:20	Delorean 46:10
cumulatively 81:13	decide 11:9 41:11	democratic 44:4
curious 103:14	decided 58:5	demonstrate 35:18 59:17,19,21, 25 105:25
current 15:14,20,23 16:6 24:22, 24 25:1,6,10,11,20 26:19 27:4 40:25 41:19 54:12 59:13 75:19 99:11 102:21 113:21	decision 75:4 79:10,11 80:5 94:2,3,10,19,21,22,23 95:9,13,21	demonstration 60:3
	decision-maker 75:2	Dena 84:22 89:3 90:11 110:13 112:5 114:21
	decision-makers 68:16	denotes 69:12
	decision-making 79:6	department 48:22 49:4 62:15 72:3
	decisions 44:20 47:21 79:16	departments 72:7 74:15 75:13
	deck 25:19	
	decline 15:11	
	decommission 47:9,25 48:2,5,6	

departure 95:22	differences 103:23	Double 18:17
deploy 23:18	difficult 58:17 112:19	DPLS 49:7
deployed 23:15	diligently 92:22	draft 53:12 68:1 78:14,23 79:1,2 80:3 83:11
depth 46:13 49:25	DIR 80:14	drafting 19:20
description 42:9 81:7 83:22,24 88:17	direct 102:12	drafts 97:2
design 14:9,17 15:6 17:18 18:4,5 23:17 24:12,16 30:4 36:23	directly 82:1 89:20 97:24	drama 103:12
designed 26:21 46:5	director 62:15	drawing 90:6
despaired 95:19	Directors 100:18	dream 86:8
destination 49:15	disadvantaged 57:9	drink 56:20
destined 108:6	disappeared 98:14	drive 26:13 107:11
detail 34:5 73:10,19 89:13	disappointing 110:2	driven 46:1
detailed 55:5	discharge 76:10	drivers 64:13 71:2
details 19:8 25:23 26:7 37:20 58:13 74:25 75:24 81:5	discretionary 66:6	driving 87:17 107:12
determination 59:2	discuss 13:13 23:7 50:5 71:23	dropdown 62:7
determine 34:22 73:22	discussed 32:16 39:17	dropped 51:18
determined 19:17	discussing 92:2 113:7	dry 11:17 12:5,17,24,25 14:10,13, 14 16:5 22:3 25:1 29:13,16,21 30:10 40:15 60:4 93:3,11
develop 47:11,13,14 48:9,12 66:21 67:16 82:24	discussion 40:11 70:15 78:6 81:9,20 82:7 108:13,21 109:9 112:6,16 113:9	due 70:1
developed 33:16 54:25 57:20 65:21	discussions 19:15,19,24 112:18	durability 21:8
developing 33:24 40:8	display 15:8	durable 22:17
development 10:23 33:17 43:22 62:12,13 63:5 65:23 66:8,10,16, 19 73:12 77:18 80:15,16 90:14 92:10 111:13	disposal 87:4	durations 15:13
deviations 37:11	district 75:16 96:21 100:19,21	
devil 58:12	districts 73:18 75:13,14 101:13	<hr/> E <hr/>
Diablo 10:12 11:20 14:17 30:1 31:14 33:12 35:22 36:11 39:11 43:15 45:3 47:11 48:7 54:14,16 57:1 59:13 60:4 61:1 65:18 67:20 69:20,25 70:10 72:2 79:19 85:24 86:10,15 87:1 88:6,24 100:25 101:23 107:21 111:1 113:1,2,5,22 114:1,17	dive 53:22	earlier 19:5 59:11 85:19
Diablocanyonpanel.org 62:6	diverse 94:15 95:18	early 39:14 67:7 71:13 76:24 82:5 97:15
Diablocanyonpanel.org. 88:22	document 16:23 65:25 66:22 67:16 68:3,5 76:22 78:5,13,19 79:5 80:24 84:5 85:1 88:14 97:12	earn 48:10
Diego 105:6,18	documents 14:5 33:16,18 34:25 35:6,21 78:20 97:2	earth 59:25
difference 15:22	DOE 48:3 49:2	earthquake 29:22 57:3 59:17 102:25
	dollars 94:14 96:11	earthquake-prone 30:7
	dome 104:8	easement 96:16 97:6,7,9
	Dominion 47:2	east 56:18 65:5,6 70:1
	Donna 103:20	easy 109:21
	dose 12:18 14:22 15:10 16:9	economic 45:7,9 57:23 58:17,19
	dots 47:10	economy 50:24

Eddy-lea 47:17,22	engineer 43:12	examined 55:3
Edison's 95:9	engineering 12:5 46:14 101:1,3, 5,21	exceed 22:7 59:22
effective 46:19 91:25	engineers 69:2 75:10	excellent 12:22 91:23
effects 34:22 35:14	enormous 69:21 87:1	exceptionally 54:11
efficiency 45:7	ensure 86:4 92:18	excited 91:23 114:25
efficient 44:25	enter 65:20	exciting 111:4,6
effort 92:13	entered 39:7,25	exclusive 64:25 65:7
efforts 48:14 92:18	entertain 43:5	excuse 10:1 20:19 27:20 41:3 65:6 74:6 76:4 107:2 108:14
EIR 42:9 73:23 74:23 75:3 77:18, 23 78:1,4,14,23,25 79:1,2,3 80:2, 3,4,8,15,21,23 81:6,16,17,22 82:1,4 83:1,8,11,13,16,18 84:1,8 88:8	entire 16:5,10 47:5 70:17	executed 17:16 97:2
EIRS 81:19	entities 75:16 76:4	exist 48:25
elected 96:25	entity 23:17 70:14 84:15	existing 24:13,17 27:14,15 52:22 54:14
elicits 31:24	environment 14:19 23:3 30:7 34:23 35:20	expansion 67:8
email 79:22,25 93:8	environmental 13:23 35:14 52:20 53:4,17 54:25 57:7,12,14, 19,24 58:7,15 65:24 66:22 68:1 71:17 73:6,24 74:22 76:19,22 77:10,18 78:13 81:7,9,10,15 83:9 85:15 89:16 104:6 109:22	expect 26:16 95:23
embody 69:10	environmentally 57:20	expectation 20:2 39:10,25 97:3
embrace 92:12	envision 16:5	expectations 19:25
emergency 18:22	EPRI 37:17	expected 26:19 47:21 55:9
emerging 13:7	erosion 101:11,16	expecting 34:13
emphasized 109:21	essential 19:2,20 70:5 71:7 82:19	expedite 111:24
employees 114:17	Essentially 27:19	experience 13:3 43:12 105:7
employment 39:16	established 36:1	experiment 47:7
enclosing 107:1	estimated 95:12	expertise 101:21
encourage 49:8 53:21 61:3 84:25 88:15 90:18	estuaries 81:9,15	experts 36:2,6 68:25
end 31:2,3 38:10 40:1,4 68:21 74:11 87:7 96:19 97:22	evaluate 34:21 80:19,25	expiration 32:11
endangered 70:23	evaluated 33:19 76:2 80:23 81:16	expire 31:21
energy 10:8,9 17:3 18:20 19:6, 12,21,25 22:24 36:11 42:21 43:9, 10,13,21 44:1,3 47:23 49:4,5 55:25 56:20 69:16,21,22,23 70:8 72:23 99:23 111:5,8	evaluation 17:9 35:12	explain 75:15
engage 19:2 51:12	evaluations 15:1 17:10	explained 105:13
engaged 19:13 21:18	evening 13:21 18:24 61:10 91:18 107:9	explaining 105:16
engagement 9:3 16:2,23 17:1 18:23 19:1,4,7,14,19,24 36:15 66:4,13 69:11 85:18,21 88:22 92:15 99:7 113:8	event 59:15	explanation 96:4
	events 74:25	exponential 15:12
	everybody's 59:20 60:7	extend 83:14
		extended 83:20,21 94:18 95:2, 10
		extension 32:9
		extensive 66:14 85:2 86:19
		extensively 55:1
		extent 12:19

extra 52:9,10	files 74:11	forego 97:23
extremely 104:3 109:22	filing 16:3	foremost 91:18
<hr/> F <hr/>		
faced 88:9	fill 11:7,10 62:8	forest 100:24 105:7
facilitator 51:20	final 53:13 68:9 78:25 79:3 83:13 108:13,20 109:9 114:22	forever 61:14 111:21
facilities 24:22 29:13 41:2 44:15 48:24 53:5 58:1 77:5 87:3 102:18	finalize 111:19	form 55:6,7 62:8 112:10
facility 10:15 29:6,9 39:12 40:10, 15,21 41:5 43:23 44:10 45:10,11 49:1 52:11,12 53:19 54:15 55:21 57:10 58:20,24 59:24 60:5 70:17 76:1 77:6 110:23	finally 111:9	formal 55:3,4 94:9
facing 61:18 93:3	find 49:3 70:13	forms 82:9
fact 11:21 22:14 100:7	finding 19:18	forthcoming 76:7
factor 29:3	findings 79:7	forthcomings 49:7
factored 92:14 104:25	fine 33:8	fortunate 10:11 42:20
factors 19:3 23:12,24 29:7	finishing 80:13	forum 92:11
facts 13:7	finite 39:20 114:1	forward 27:23 50:25 51:1 56:11 58:6 102:2,3 107:3 114:19
fair 55:23	Finland 50:14	found 28:21 52:23
fall 42:1 59:17	fire 93:4,11	four-level 60:3
falls 59:19	fired 50:7	four-year 41:22 103:14,15
familiar 44:11 70:15	firm 83:23	fourth 34:9 59:23
faster 56:5	fish 75:8 105:7	frame 51:6,8 94:23
fault 57:3	fit 24:17	France 50:15
favor 112:11	fits 44:14	frankly 48:23
favorable 52:16	five-eighths 46:7	frequency 35:2
feasible 106:21	five-letter 94:4	frequently 107:11
feature 30:22 62:4	five-minute 61:23	Fresno 70:1
February 95:1 99:20	five-year 55:9	front 43:7 95:10
federal 40:11 73:17 74:15 75:9, 10 100:1	fixed 12:13	fuel 9:8,20,21,23 10:14 11:1,2,4, 11,21,23 12:7 14:14,21 15:9 16:25 19:7 24:21 26:15 27:13 30:1,5,6,10,15,20 31:15 32:2,3 37:10 39:22 40:14 41:1,18 42:18 43:13,14 44:2,16 45:8 47:4 48:3,6 52:9 54:18 55:14,17 58:13 59:3 92:6,8 99:20 103:16 104:16,24 106:4,25
federally 70:23	flexible 63:3	fuels 105:24 106:13
feedback 20:3 92:12 96:18	floor 52:3	Fukushima 29:3,21 30:11 46:4
feel 21:6 61:10 87:16	flow 26:24	fully 13:4 32:21 58:7 71:10
fellow 54:13,25 113:12	flow 26:24	function 35:4
field 70:21	focal 77:12 81:23	functional 22:2
figure 74:10	focus 80:11	functioning 66:20 70:20
filed 73:11	focused 24:4 44:20	functions 35:25
	focusing 77:24	
	fold 71:7	
	folks 63:14 90:18 112:25	
	follow 34:24 40:12 49:9 60:13	
	follow-up 43:5 61:7	
	footprint 71:16	

fund 28:13,15
fundamental 103:23
funding 16:3 26:11 44:1 64:17
94:2,3
funds 48:5 94:10 101:18
future 27:13 31:8 43:8 51:13
61:15 71:5 80:19 85:24 99:12
102:16 109:6 110:23 111:7
113:25

G

gained 69:14
gathered 16:21
gave 48:11 96:18
gears 84:11
gee 9:24
general 21:13,24 24:6,15,20
32:16
generally 57:3
generate 66:15
generated 111:2
generation 69:17 71:5
generations 43:9
generator 41:3 111:14
generators 41:4
generic 83:1
gentlemen 9:4
gigawatts 110:24
Gilmore 103:20
give 10:10 18:22 42:21 43:19
55:25 63:15 67:11 76:6 94:1,16
giving 55:24 57:25
glad 110:5
glitch 31:6
globally 103:24
goal 23:4 39:21 51:10 114:2
goals 23:20
gold 47:1 104:13
good 13:21 18:24 20:14,15 21:16

28:21 43:2 45:15 51:4 56:6,9,10
57:4 84:17 91:18 95:3 107:9
109:24 110:6 113:15
google 50:6
Goshute 55:18 58:16
government 40:12 72:22
government's 48:4
Governments 75:17
governor 55:12,13 109:17
110:20 114:8
granted 55:20
graph 15:9
gravitated 46:17
great 9:5 38:7 42:16 52:1 57:1
63:11 85:5,6 90:22 91:19,20 93:8
102:5 103:6 106:18,19
greater 11:22 25:4 40:18 41:5,12
42:7 89:25
greatest 12:19
green 17:23 65:9 111:5
grid 113:4
GTCC 11:22
guess 40:2,17 41:10 42:13 68:21
102:14 111:17
guidance 33:16,17 34:24 35:5,
21
Guy 63:16,23
guys 20:23 90:17 113:7

H

H-A-V 100:16
habitat 70:20
half 44:13 59:9 102:13
half-inch 46:7
half-inch-thick 30:2
hand 18:11 27:8 38:8 66:7 71:20
89:3 90:25 91:5 98:14,17 107:7
handle 25:8 31:11
hands 20:20 51:23,24 84:21
97:20 98:1 108:11 111:18

handwrite 97:11
happen 31:7 54:13,17 85:21 95:8
100:2
happened 11:15,16 29:4,5 53:25
112:1
happening 85:7
happy 50:5 72:16 90:17 97:16
Harbor 96:20
harding 104:6
Havlik 98:15,18 100:13,15
hazardous 49:23 81:18
hazards 14:18 104:6
head 51:20 106:17
heads 41:4
heads-up 76:6
health 65:1
hear 42:25 63:10 82:25 91:11
95:5 97:24 98:19 99:2,15 102:12
103:4 109:6 112:12
heard 45:20 54:20 55:5 98:25
106:5 112:13 113:10
hearing 49:6 57:5,15 75:2 79:4,9
101:4 102:14 107:13 113:12
heat 12:7 15:9,21 25:8 26:10
37:2,24
heavily 48:5
heavy 105:20 106:13
held 32:15 99:14,19
helped 66:14
helpful 73:3 85:4 89:14
HI-STORM 31:22
hiding 98:22
high 37:9 65:16 74:10 106:12
higher 25:9 28:11
highlight 18:25
highlighted 21:25
highly 9:22 11:24 30:7 40:22
45:10,21 104:20
highway 100:22 107:22

hiring 72:4	immediately 83:11 101:16	incorporation 97:9
historically 28:8	impact 37:14 41:23 48:15 52:20 53:4,17 54:25 65:24 68:2 73:25 76:19 82:11,15,20 87:8 89:17,19, 20,22,23,24 90:1,3 95:16 96:11	increase 25:5 26:15,17
history 30:9 86:13,19,23 87:23 88:6	impacts 70:19 71:17 81:10,11, 12,14 89:18 90:6 92:8 96:11	increased 28:9
Hokesholt 18:21	impetus 56:1	increases 16:10
hold 67:3 68:18 74:4 76:12	implement 15:7 18:4 27:4	increasing 38:3
holding 78:10	implementation 12:24 15:2 26:12	incredible 30:8
Holtec 31:22 47:17,22 50:6	implemented 36:23 37:13	incredibly 61:17 73:3 110:7
home 70:22 93:10	implementing 16:7	indefinite 52:22
honest 28:6	importance 112:21	independent 10:12 31:15 36:2, 6,12 54:14,16 60:4 61:1 96:21,24
Honestly 28:20	important 19:1,21 24:8 43:21,24 44:18 50:23 54:9 61:6 82:3 91:16 92:1 103:18 109:20,22 110:7	indexes 53:1
honored 43:7	importantly 53:3 101:12	Indian 55:17
hope 43:19 51:12,16 61:12,14 88:4 96:9 99:4 108:7 109:14 111:6 112:19 113:24	impoundments 101:6,7	indication 16:14 26:18
hoping 30:24 87:12	impressed 99:10	indicator 16:15,25
horizon 40:9 100:6	improve 12:6	individual 83:17
host 50:16	in-depth 19:15	individuals 18:9 37:21
hot 93:3,11	in-person 19:13	industry 43:11 45:21 47:5,15 103:22 104:2
hotter 24:11	inadequate 86:25	inextricably 96:9
hour 84:3	incentive 48:9	info 68:18
hours 99:8	incentivized 48:6	information 14:3 23:8 37:18 43:4 49:18 53:20,23 61:4 63:7 67:7 68:19 73:23 74:4,7,9,19 76:4,6,8,9,10,12 77:15,19,21 79:17,19 80:9 90:4 101:19 109:16
house 28:24	inch 46:8 50:1	informational 75:20
huge 59:2 85:1 107:22	inches 50:1 85:2	informative 54:12 85:10
Humboldt 33:5,9,11	include 81:1,20 101:10	informed 48:13
hundreds 86:1	included 75:10,16,22 76:11 81:6, 25 82:4 86:12,18	informs 96:5
Huntsman 55:12,13	includes 31:22 43:25 72:6 99:15 100:25 101:3	infrastructure 45:4,12 46:22 47:12,13
I		
idea 24:10 57:1,5,16 91:6 105:10 106:6	including 14:18,22 16:2 81:22 86:5 96:16 101:7,23	infrastructure's 45:2
ideal 22:1	income 57:9	initial 21:14 31:20 94:13
identified 52:23	incomplete 67:3	initiative 86:8
identify 35:10	incompleteness 74:3	injustice 57:25
identifying 26:14 35:2,24	incorporate 20:3	inland 100:24
illuminating 82:13	incorporated 14:8 86:23	innovated 45:23
illustrates 61:6		innovation 46:1
image 64:25		input 30:25 33:21 69:11,13 73:20 92:1,5,9,14 96:1

inputs 14:4 16:22	internal 72:6	11 65:2 75:21 76:11 82:3
inquire 89:6	Internet 26:3	
inside 25:22 30:3 46:11,17 47:4, 7 70:24	interpretation 39:2	J
insightful 54:11	intervenors 94:9	J-A-N-I-N-E 107:10
insist 59:24	intriguing 111:8	Jane 98:24 99:2,3 100:12
insisted 58:14	introduce 9:9 13:10 18:15 60:25 62:18 71:23	Janine 107:6,8,9,13,18 108:10
inspect 29:10 35:7 104:12	introducing 9:15 63:25	January 32:15
inspectability 46:15	introduction 10:6,20	jetties 70:17
inspected 12:11 37:16	invaluable 92:9	job 11:8 56:10 72:20,25
inspection 32:17 34:7 36:19 46:23 104:14,15,19	inventory 44:25 59:3	jobs 45:13
inspections 34:4 35:5,16 36:9, 13,15,16 37:23 42:1	investigate 11:17	joint 114:6
inspectors 36:8	investment 45:13	Jones 10:5,21,22 39:6,13,14 40:6 51:17,18 52:1,3 63:6 64:1,10 84:11 93:23 99:2 109:5 113:19
installation 31:15	invite 36:14	judge 54:13
installed 43:17	invited 36:6,10 41:25	juice 10:1
instances 22:7	inviting 36:17	July 76:24
Institute 10:9 42:21 43:9,13 99:24	involve 77:21	jump 64:9
insufficient 85:13	involved 12:21 13:2 17:11 27:24 58:2 62:7 78:12	June 36:16 42:1 61:2 74:5 76:13, 23
integrated 47:25 48:24	involvement 18:1 77:25 78:11, 17 79:9	jurisdiction 64:25 65:7,15 66:18 68:1,6 77:3
integrity 50:9	iron 29:24	jurisdictional 65:25
intended 35:4,25	irrelevant 110:10	jurisdictions 64:18 67:23 76:7 77:4
intends 49:7	ISFSI 16:10 31:9,15,19 32:2,21, 25 33:16 34:4,21 38:16 40:8,19, 25 41:12,19	justice 57:7,12,14,19 58:8,15 108:3 109:22
intent 35:16 48:2	ISFSIS 32:21	Justin 10:7,18 18:19 20:12,25 24:2 27:11 28:4
interacts 57:22	ISP 56:4	K
interconnected 70:2,3	issue 24:9 28:7 50:22,25 58:11 60:7 86:24 88:5 103:9,10 108:3 111:6	Kalene 98:5,17 100:13 102:8 103:3,5,6 105:2
interconnects 69:25	issued 31:20 38:16 40:3 74:2 78:15 83:11	Kara 38:12 42:4,6,13 54:2 84:22 88:18 89:2,6 92:10 110:12 112:4
interest 95:19	issues 19:1,4,20 28:23 54:22 62:25 63:4 85:5,15 86:17 94:21 109:4,22 110:8,10 112:20	keeping 108:5
interested 20:25 42:2 101:2	issuing 17:14 78:2	Keith 62:14 63:10,12,23 71:25 72:1 89:7,15 90:10,15
interesting 48:18 71:4 111:3	item 9:7,8,16 20:18 30:19 31:9 42:12 62:6,11 63:4 69:17 70:12 90:23,24 91:2,8	key 14:3 19:20 28:23 29:2 49:12 69:12 71:2 74:23 78:10
interim 10:10 39:17 40:10 42:19, 22 43:15,22 44:6,10,21,24 45:11 47:18,21 49:8,21 50:11,20 51:13, 19 52:11,21 53:5,8,9,12,18 54:6 56:25 99:25 100:2,4,8 105:9 106:6,20 109:19	items 14:7 24:11 31:18,24 35:9,	
Interior 48:22		
intermediate 10:15		

kick 91:11	leadership 17:14	limitations 21:21 23:20
kind 24:14 25:25 29:23 30:1,9 41:10 64:3,4,5,7 72:5,6,8 86:4 87:7,22 89:17,18,19,23 90:2,7 113:11	leading 35:6,8	limited 54:7 101:7
kinds 112:25	leaking 29:25	limiting 41:9,19 82:12
Kinsinger 105:4,5,6 107:3	learned 12:23 106:19	limits 23:13 87:22 89:10 103:17
knocked 53:25	learning 105:17	Linda 9:9,11 10:3,16 13:9,14,19, 22 14:6 15:4 20:21,24 24:1 29:20 30:18 54:2 60:11,14 61:21 99:14 109:10 110:12,14 112:7 114:24
knowledge 105:22 106:1	leased 71:11	Lindsay 20:20
knowledgeable 28:23	leaving 53:6 56:23	lines 113:1
<hr/> L <hr/>	left 66:10 75:7 81:17	link 88:21
L-I-K 100:16	leg 52:10 70:3	linked 96:9
laid 112:7	legal 100:9 106:22	links 69:13 79:20
Lam 10:11 20:13,15 54:4,5,9,10 56:6,12 58:11 60:9,25 61:8,12 99:15,16 110:1 112:13	legislative 48:14,17,20	list 62:25 75:5,6 79:22,25 85:15 90:19
land 39:18 58:16,21 75:11 83:16 86:17,20 87:24 88:11,24 110:8,9, 11 111:12,20,25	legislature 114:7	listed 32:3
lands 65:20 77:2 78:7 82:2 85:25 86:2,11,15 88:7 101:14,23,24	legislatures 48:15 58:4,6	listen 106:18
lanes 66:5 97:16	LEMIEUX 25:18	listening 24:7 93:14 100:7 111:23
large 69:21 80:22 113:11	length 11:21	literally 72:17 97:11
larger 88:4	lesion 89:11	litigated 55:1,3
largest 69:22 70:6	lessons 12:23	litigation 56:2 58:14 108:4
lastly 65:13 70:7 75:1 96:14	letter 33:5,9 68:18 74:2,4 75:20 76:12	live 99:4 107:10
late 39:15 40:7 56:17,19 76:23 95:11,21 97:21	letters 67:3 109:18,20	lived 29:24
late-filed 56:3	letting 102:10	living 70:24
latest 94:24	level 23:15 41:1,6 47:19 59:21,23 73:18,20 74:10 96:18 102:24 106:11,12	loaded 32:1 45:19
Lathrop 20:20 24:5 25:10,12 108:22	license 18:4 31:10,19,22,25 32:6,7,8,10,19 33:16,21,24 34:4, 6,11,20 35:13 36:5 38:6 40:25 47:20 48:18,21 53:13 55:20 60:5 64:23 113:21	loading 12:22 13:3 14:20 15:19 32:1 51:6
Lauren 91:21	licensed 12:15 26:20 45:14 50:15 53:19	loads 22:1 25:8 37:2,24
law 39:18 40:12 100:1 114:9	licensee 59:16	local 19:2 20:4 32:22 65:11 72:22 73:17 74:15
lay 96:4	licenses 40:3	located 98:9
layout 32:16	licensing 13:23 14:24 17:18,24 18:1 31:16,20 39:21 50:18 54:17, 24 55:8,18 59:22 64:14 96:7	location 32:24 45:4 102:22
layperson 86:25 87:14	life 27:20 59:9 102:13 113:21	locations 64:21
lead 64:6,7 66:21 76:20	light 43:24 67:13 71:16	long 11:25 22:18 23:1 40:4 45:17 51:10 54:19 55:21 58:13 59:4,9 70:2 83:18 105:19 111:21
leader 58:14,19	lighthouse 96:16,22	long-term 15:5,8 22:4 29:14,17 39:12,23 105:11
	limit 59:23	longer 83:2 114:12

looked 37:19 44:9 52:20 87:4

Los 100:24

lose 70:3

loss 35:3,24 50:9

lost 108:18 111:1

lot 18:8 23:11 42:2 45:2,11,12,13,
23 46:8 49:24 50:3 51:11 52:12
53:20 56:7,24 68:22 69:11 73:9
75:7 78:6 86:17 92:1 95:19 105:9
106:22 108:9 112:21 114:18

love 72:23

low 15:18 41:1,6 47:19 106:11,12

lower 37:2 57:9

Luis 32:24 60:8 64:15 65:7,10
72:17 75:17 76:20 86:8 88:1 99:4
100:18,21 107:10,18 111:11

lying 70:6

M

made 9:1 11:9 26:24 29:23 41:11
50:13 55:12,15 56:8 94:10 102:15
103:9 109:11 110:20 111:10
113:19

magnitude 82:12

main 24:15 64:13 75:21 81:6

maintain 25:7

maintained 104:16

maintenance 70:4

major 67:1 77:10,24 110:19

make 9:2 16:8,17 18:8 21:19
22:18 29:20 31:7 35:2 36:3 37:8
44:20 57:13 59:1,7,16,18,21
68:15 73:16 74:14,20 78:20 79:15
83:25 84:6 90:25 91:3 92:12 93:1
98:6 100:6 105:4 107:5 109:15,25
110:18,25

make-up 72:10

makers 11:7

makes 31:23 98:3

making 26:23 32:13 36:4 37:13
69:20 92:22 93:10 107:19

man 63:24

manage 40:14

managed 49:24

management 9:9 33:1,7,11,22
34:18,25 35:8,23 45:1 46:21
47:12 68:23 75:11 101:2,9,10

managements 44:19

manager 13:23 72:3

managing 44:25 72:22

mandatory 28:16

manner 15:10

manufacturing 12:4 37:11

map 46:6 47:10 64:18

March 31:20,21 32:12 34:8 73:11
74:1 95:2

marginalized 108:5

margins 25:7 59:23

Maria 64:22 75:15 76:1,3 77:4

marina 65:14 70:13

marine 14:19

market 23:14,18 45:23

marketplace 46:20

Marty 108:16,17,22,25 109:1

Marty's 109:3

material 34:23 35:19 36:21 37:1
38:1 59:4,9 60:2 70:16 106:7

materials 12:4 36:22,25 38:2
81:19,20 108:4,6

matter 68:25

Maureen 91:8,11 97:18

Mccollum 54:10 99:23 104:12

Mccullum 10:9 42:20,24 43:2
52:17 55:20,23 56:9,20 57:18
58:18 60:10

meaning 12:12 24:12 48:1 76:21
80:15

means 44:25 94:24

meantime 40:13

measure 82:10

measures 81:10

mechanisms 45:5

media 113:23

meet 19:24 21:22,25 22:5 23:13,
23 27:22 35:11 63:14 92:22
109:12

meet all 27:18

meeting 14:17 27:23 30:21,22
32:13,15 33:25 46:16 61:2,4,6
62:3 65:16,18 67:14 90:24 91:5
97:23 99:18 100:7 110:4,6

meetings 19:13 78:10 79:24
80:1,3 85:23 92:3 99:10 107:4

member 43:11 59:7 62:16,17
98:4

members 20:12,17 24:7 36:15
41:25 61:3,5 63:13 68:24 84:20
91:20 97:19 98:3 99:7,12 105:3
108:13

mention 10:4 26:9 86:7 87:19
111:9,12 112:23

mentioned 13:14,22 15:5 22:13
24:23 26:11 34:16 38:1,15 41:25
68:24 77:1

menu 62:6,7

merge 68:9

message 9:25 114:11

met 23:8,14,18 113:4

met all 96:20

metrics 113:3

Mexico 47:18 57:6 58:6 100:8
109:18

mic 18:16 20:7 27:9 62:22,25
93:20

microphone 109:1,2

mid-august 94:25 95:5

mid-september 94:23

middle 33:20 98:24

milestone 90:17

million 22:16 94:15

millionaire 59:7

mind 60:6,7 101:16 102:1

minimal 52:15

minimize 12:17,18 81:10
minimizing 14:22 82:11
minimum 28:16 78:18
minor 84:4
minute 46:13 73:19 75:15 77:13
81:8
minutes 109:1
misrepresentation 106:8
missed 9:1 42:8
missile 50:6,7,10
mission 23:4 71:7,8
misspoke 39:5
mitigate 107:25
mitigated 32:22 39:20
mitigation 38:18 79:12 81:10
82:8,10,16,19 87:21,22,24 88:2,5,
7,10 89:9,18,20,21 90:6 111:16
mode 48:19
models 47:5 48:1,25
moderate 37:9
modifications 21:18,19 83:25
modified 14:9 15:6 16:16 18:5
32:7
moment 30:9 85:8
moments 51:21
Monday 72:18
money 22:12,14 28:15 51:2
101:14
monies 101:15
monitor 16:9
monitoring 12:10 15:5,8 16:4
25:21,25 26:4,9,12,20,22 27:1,2,3
79:13
month 63:20 83:6
months 47:22
Morro 110:22 111:3
MOU 65:20
Mountain 40:1
mouth 51:3

move 9:6 11:3 20:17 25:17 38:9
43:14 44:6,16 48:2,6 50:24 51:1
54:7 56:16 62:11 76:16 102:1
106:6 109:5 111:5 114:19
moved 12:16
movement 43:19
moves 70:18 102:3
moving 49:15,16 53:7,9 56:5
72:18 112:15
mud 29:10
multiple 19:15 66:5 67:17 85:23
mustard 22:6
mute 18:17 62:22 93:21
muted 9:15 30:17 109:2
mystified 100:3

N

N-E-I-L 100:16
narrowing 50:17
nation 30:13
national 39:19,22 40:7 58:24
100:24
nations 58:21
natural 101:1,8,13,21
navigate 97:16
NDCTP 94:5 95:17
near-term 43:19 44:16 51:4
nearing 97:22
needed 21:17 27:21 73:23 74:19
88:3
negatively 48:15
negotiated 58:3
NEI 51:11 55:9 57:18 58:8 104:13
Neil 98:15,18 100:13 102:5,6,7
103:2
nervous 70:5
newest 72:17
Newsom 110:20
nexi 101:17

nexus 82:19 89:19,21
nexuses 101:18
nice 63:13 98:23 112:8
night 112:9
noise 93:22
non-disclosure 19:10
non-existing 47:19
north 47:2 65:5 100:22
northeast 69:25
northwest 65:6
note 69:15
notice 50:8 67:3 78:2,3,15
notification 79:25
notified 36:7 93:7
NRC 22:6,7 23:15 28:4,7,9,13,15,
20,25 34:18 42:12 45:14 47:21,24
52:23 53:14 54:13 56:9 59:22
96:6,13 104:2,10
NRC-APPROVED 29:13
nuance 67:22
nuances 21:13
nuclear 9:8,23 10:9 11:21 12:6
14:12 17:20,23 18:2,20 22:25
24:21 32:14 33:14,15 34:10,15
35:17 36:2,6,7 42:18,20 43:9,10,
11,13,25 44:3 50:25 51:2 52:18
64:14,23,25 70:17 71:9 94:5
99:23 101:3 110:8,9
number 9:17 39:9 43:3 49:20
50:1,4,19 52:19,24 53:1,16 59:2
93:8 97:11 99:8
numbers 52:14
numerous 73:2,17 75:12 113:19,
23

O

Obama 44:8
Obispo 32:24 60:8 64:15 65:8,10
75:17 76:20 86:8 99:4 100:21
107:11,19
Obispo's 72:17

objection 97:25	19,22 79:8 111:4	17 114:3
objective 28:2 92:23	opposition 48:23 109:19,21	panel's 62:5 70:14
objectives 23:21	optimistic 51:7 55:11,24 99:24	panelist 62:25
observations 54:6 62:9	option 22:4 39:17 80:25 103:18 105:13	panelists 113:12
observe 36:10,12,15	options 17:2 49:3 51:5	panels 9:3
occasion 77:17	ordinance 83:17	parallel 34:18
occur 26:17 45:6	organization 73:18 101:20	parameter 37:4
occurred 33:15	organizations 57:21	parameters 46:4
occurs 68:8	original 65:15 68:1,6	paramount 60:7
Ocean 100:23	outline 64:20,22	part 14:8 15:5 28:17 31:19 32:5,6 33:3,13 35:13 36:1,19 40:24 41:16 47:25 50:23 57:21 62:10 64:23 71:19 91:4,21
October 95:11	outlined 20:1 103:23	participant 98:4 101:25
off-site 59:22 77:6	outstanding 92:17	participants 30:24 98:6 102:3
offer 29:13 31:5 99:16 101:1	overlapping 67:23	participate 102:11
office 97:12	overpacks 37:22	participating 110:15 112:2 114:4
officio 62:17	overseas 49:20	participation 34:13 66:11 74:24 75:1 77:11 79:18
offload 14:14 15:15 17:2 92:9	oversee 58:1	parties 39:2 94:12,15 95:14,22
offloads 15:14 41:17	overseen 65:9	partners 47:22 58:2
offset 89:18	overview 10:6,10,19 18:23 31:18 34:20 63:5 73:8 77:23 85:5	pass 22:6 43:4
offshore 110:22,23 111:8	owned 55:17	passed 28:13 104:18
oil 102:17,18,19	owner-controlled 41:8	past 14:2 16:2,13 87:17 89:8 99:11 106:20
ongoing 19:9 26:14 31:17 36:13		path 68:6
Onofre 46:25 103:7,20 104:13	P	paths 26:24 66:5
open 51:15 59:20 84:10 104:9		patience 110:16
opening 110:6	pace 68:17	Patrick 24:4 25:15 27:7
opens 60:1	Pacific 100:23	pause 71:20
operate 113:2,3,5	pack 110:3	PC 9:25
operational 113:21	package 63:6 74:6,7	Pecho 87:24
operations 14:21 35:15 92:23 114:2	pad 9:21 11:4,8,11 37:6 102:23	pending 94:3 95:9
operative 104:22	Padres 100:24	people 20:19 49:13 56:24 85:8 86:2 91:2,6 100:11 106:5 108:5 109:11,13
opinion 22:10 23:6,10 29:12 48:13 54:15 59:13 79:10	pads 26:23	percent 68:24 69:3,5 86:9
opinions 23:7	panel 10:13 11:8 13:24 14:5 16:2, 23 17:1 18:15 20:10,12,16 24:6 33:21 36:15,17 41:25 43:7 49:9 50:5 51:22,25 53:1,21 60:14 61:3, 5 62:10,16,17 63:13,14 66:4,13 69:11 71:13 73:2 84:11,20 85:18, 21 88:22 90:16,20 91:4,20,21,23, 24,25 92:5,15 94:20 97:17,19 98:3 99:7,12 101:19 103:21 108:13,20 109:6,17 111:6 113:8,	Perfect 10:24
opponent 55:14		
opportunities 17:5 33:18 43:14 44:16 58:1 79:17 80:2		
opportunity 9:19,24 20:10 30:8 31:3,5 34:1,12 36:14 37:6 45:8,9 57:23 60:24 62:4 71:22 78:11,17,		

performed 17:2 52:8	Philippe's 51:6	Port 96:20
performing 36:9	phone 93:8	portion 31:11 33:20 34:17 74:23 101:23
perimeter 93:10	phrase 89:12	portionality 89:24
period 17:22 18:5 31:2,20 32:8 55:2 78:16,18,24 80:3 83:12,13 84:7 91:1 113:21	pick 68:16	positions 55:6
periods 39:21 112:16	pieces 79:2	possibly 22:11 54:22
permanent 39:23 43:16,17 77:2 100:3,5 111:25	pilot 50:16	posted 74:12
permit 38:25 58:23 62:12,14 63:5 66:8,16 67:20 72:8 73:12,14 81:2 87:21 90:14 92:10 96:2 111:15,22	pin 66:21	potential 11:17 69:16 102:25 110:24
permits 38:15,16 39:3,4,8,25 88:2,3	Pismo 64:22 77:6	potentially 64:21 95:6
permitted 32:21	place 23:6 35:10 45:7 52:10 79:21 111:13,25	pounds 106:15
permitting 32:20 40:25 42:12 64:15 72:22 73:5 77:8 79:16 82:4 96:8	places 21:4 48:12	power 57:10 69:20 93:6 101:24 104:8 110:25 111:1,2,3
perpetuity 32:22 38:18,25 39:5, 20 40:3 86:4 104:22	plan 20:5 27:16 46:24 66:19 81:23 104:15 114:8	powerless 58:5
person 110:17 114:21	planet 12:9	Powerpoint 72:11
personal 30:4 92:10	planning 27:22 32:17 33:5,12 39:15 62:15 72:3,5 75:3 79:6,12, 18 80:4 88:20 95:17	practical 21:22 22:2,13
perspective 28:8,10 57:8 93:2 114:24	plans 25:24 40:20	preapplication 32:17 33:25 34:3 35:16 36:19
Peter 10:11	plant 11:1,3,20 28:14 80:11,17 81:3 86:1,11 101:24 104:8 107:22 111:3	precedential 88:10
PFS 53:18	plaque 43:8	precise 47:6
PG&E 9:20 10:5,22 11:3,13,16 12:21 16:2 18:14 19:14,15,22 20:3 21:6,15,18 22:25 30:8 33:21 38:15 43:11 59:16 62:13 63:5,19 64:1 67:25 68:25 74:11,19 75:20, 22 77:16,21 80:9 84:14 85:12 86:10 87:13,23 88:2 90:23 91:8 93:2,7,9 95:13 99:17 111:10,14 113:13	play 44:7 45:11 49:1 82:6	predates 39:16
PG&E's 38:21 39:2 64:4 73:10 86:12	playbook 44:12	preoperational 12:22
phase 50:16 80:10,12,18 84:12, 13	pleased 10:4	preparation 78:2 83:8
phased 44:18 50:14	plenty 45:16 46:2 53:23	prepare 83:13
phases 19:16 80:9	plug 10:2 93:12	prepared 61:9 66:16 78:14,25 80:15 83:10 85:20
Philippe 10:22 13:10,13,15,20, 22 19:11 20:12 24:6,14 25:14 27:6,11,12 31:10 38:7,13 42:17 45:1	plugged 10:16,17	prepares 74:23
	point 14:23 16:20 29:2 55:24 56:1 64:3 74:18 77:9,12 78:11 80:4 82:18 84:18 88:1 111:11 114:16	preparing 34:3 73:24 76:19,21 78:4
	pointing 24:20	preplanning 92:17
	policy 40:7 81:24	present 63:6 99:18 109:13
	political 28:24 48:22 55:15 57:9	presentation 16:19 18:7 38:14 42:17 54:12 62:20 63:8 84:9
	politically 58:4	presented 14:2 16:12 54:11 85:12 103:22
	Pollution 75:16	presenters 20:11 61:22
	polygon 65:4	presenting 10:22,23
	pool 24:11 29:7,15,16	president 100:17
	pools 11:2 22:4 29:5 103:16	press 24:2

pressure 25:22	promise 40:12	purchasing 48:2
presubmittal 32:14	promised 60:19	purple 33:13
pretty 28:21 110:25 112:8	prone 104:11	purpose 35:18
prevent 111:13	proponent 58:20	purposes 82:4
previously 37:16,19 96:23	proponent's 54:20	pursue 49:2
principle 59:14,16	proponents 55:5	pursuing 66:6
principles 58:8	proportional 82:20	put 15:19 30:3,9 39:21 40:19 41:11 43:8 51:2 82:25 87:3 93:12 98:17 99:8 100:10 102:23 105:19 111:25
prior 32:11 34:8 35:3,24	proposal 11:6,16 13:25 14:4,9, 16 15:24 16:13,21 19:7 21:9,14 23:11,22 24:16 26:8 35:23 65:21 92:7 114:6	<hr/> Q <hr/>
prioritize 23:2,24 28:23	proposals 15:16 24:9	quality 73:6 74:22 77:11 101:10, 15
private 49:10 54:18 58:13 101:14	proposed 14:11 41:21 94:21	quarter 17:16 34:9
probe 26:1	proposition 100:9	question 21:15 22:8 24:6 25:15, 16,18 27:10 28:16 38:8,9 39:13 40:17 42:13 52:4 53:23 56:16,22 59:5 84:24 89:4,5 99:22 102:15, 21
problem 12:13 61:17 62:23	propriety 93:13	questions 10:13 19:11,20 20:6, 10,12,16 24:3 31:5 38:10,14 43:5 47:23 51:15,21,23 54:3,4,7 59:12 60:12,13 61:8,9,11,13,14 67:5 68:22 69:8 84:10,20,21 90:12 97:17,19 102:10,11 105:9 106:4, 17 110:1,7 112:12,13,14 114:25
proceeding 94:6 95:23	protect 46:19	queue 108:15
proceedings 14:13	protected 71:19 86:3 88:1 104:7 111:21	quick 18:8 25:15,16,19 42:5 73:8 94:1 110:18
process 10:7 11:16 13:14 15:25 16:16,21 17:9,19,25 18:13,23 19:8,9,12,17 23:11,22 29:25 31:10 33:8,13,17 34:14 35:13 36:1 44:23 50:18 54:24 55:4,8 56:4 59:10 62:13,14 64:3,7 65:24 66:8 67:12,21 71:24 72:4,8 73:6 74:10,22,24,25 76:18 77:12,15,23 78:1 79:4,13 80:2 85:16 89:16 90:14 94:10 96:7 97:13 102:3	protection 23:3 29:14 111:25	quickly 69:6 73:1 94:17
processes 14:23 23:15 29:1 56:4,11 67:17 68:8 97:13	protocol 20:23	quote 55:13
processing 72:13	provide 13:24 17:5 19:6 20:9 25:25 31:3 69:7 75:24 77:21 101:8,20	<hr/> R <hr/>
product 69:15	provided 14:6 76:13 88:2 92:5	R-A-N-D-S 107:10
professional 28:22	providing 15:12 57:23 67:6 76:8 82:13	RAD 41:2,6
program 35:1,12 43:17 50:12 65:11 79:13 80:21,23 83:16	provisions 102:15	radiation 12:10,18 16:4 26:10, 12,15,16,18 102:13
programmatic 80:21	public 13:24 14:23 16:22 17:25 18:1,15 19:4 23:4 24:7,15 30:23 31:1,3 32:13 33:18 34:1,12 60:19 62:5,10 64:17 65:2 66:4,11,14,15 67:14,17 68:3 72:7 74:24 75:1,2 77:11,25 78:10,11,12,16,17,19 79:4,8,9,18 81:23 84:25 85:14 86:4,19 88:15 90:25 91:1,3,5,16 93:1,6,18 94:2,3,9,20 97:24 98:2, 3,4,6,12 101:14,15 105:3 108:12 109:12,13 113:22 114:4	radical 95:22
programs 35:1,8,23 114:16	publics 101:2	radioactive 9:23 11:23,24 59:8 60:2
progress 50:14 51:13	Pulido 100:13 102:7,9	radioactivity 71:3
project 22:15 42:9 47:17,19 64:6, 12,21 71:3,6,19 72:23 73:4,12 75:4 76:19,24 77:3,8 79:11,14,16 80:5,14,16,22 81:7,12 82:15 83:22,24 84:3,4,14 87:21 88:4,7, 8,16 92:6,16,17 94:11 95:20 100:1 111:17	punishment 54:24	
projects 47:20 49:10 72:24 81:13	purchased 22:11 103:11	

radiological 65:2 71:6 81:19,20	recommendation 17:13 34:25 35:17 44:12	rejoin 51:19
rail 75:24 76:1 77:5 105:19,20	recommendations 11:9 13:5,19 103:15	related 35:3 65:2 107:20,21
rails 49:22	recommended 12:3 35:1 44:10	release 49:4
raise 84:21 90:25 91:5	reconvene 61:25	released 44:1
raised 19:23 107:7	record 49:13,19 62:10 91:5	releases 60:2
Rands 107:6,9,10,15,18	recorded 96:16 97:4,5,10	relevant 86:19
range 37:24	recreation 81:22 85:14	remaining 60:12
rapid 15:11	recreational 107:23	remarkable 44:3
rates 12:18	red 16:15 34:2 64:20,22 66:24	remediate 94:8
rationalize 104:16	reduce 70:18 89:22 90:1,6	remediated 71:10
reach 15:11	reduced 94:13	remediation 71:6 80:13
reaction 55:10	reduction 41:8,17 71:2	remember 40:10 106:16
reactor 41:4	refer 73:21	remind 31:1 62:3 88:19 93:20 94:20 114:3
read 29:3 85:4	reference 15:13 16:14 102:17	removal 80:11,17
readily 18:10	references 14:7 97:8	remove 29:9
reading 42:8 85:9 87:15	referral 73:16 76:5	removed 12:13 81:3
ready 56:21 93:10,24	referrals 74:14	renewable 111:5
real-time 16:4 25:25 27:2 30:24 47:3	referred 31:16 80:24	renewal 31:10 32:8 33:16,22,24 34:4,6,20 35:13 36:5 38:6
realignment 95:6	refine 47:5	renewing 32:6
realizable 55:10	reflect 87:15	repackage 12:14
realize 40:4 41:13 43:2	reflected 85:20 97:6	repackaged 105:25 106:2
realized 56:17	reflection 85:17	repackaging 104:25
reason 24:15 30:21 40:6,8,22 46:16 57:15 84:7 97:5 111:12	refresh 89:12	repair 12:14 46:24 47:13 104:14, 15
reasonable 60:20	refresher 85:7	repaired 37:12
reasons 69:19 70:4	refrigerator 46:9	replace 27:15 82:17
recall 85:14 95:1	regard 10:14 18:13 30:19 54:6 90:13	replaced 111:14
receive 12:22 75:6 76:4	region 36:8 50:16	replacements 41:3
received 14:4 33:9,19,21 38:15 67:3 73:15 78:24 83:6,17 86:1 96:1 111:15 114:11	regulation 32:5,7	reply 113:16
receiving 45:10	regulations 28:14	report 29:4 51:13 65:24 68:2 73:25 76:20 87:6
recent 69:15 70:21	regulatory 14:24 15:1 17:21,24 18:2 21:21 23:9 32:14 33:14,15 34:10,15,24 35:18 36:7 52:6,7,18 64:14,24 65:1 66:5 71:9 96:11	reporter 98:8
recently 62:13	rehabilitation 82:13	reporting 79:13
Recess 62:1	reimbursed 48:3	repository 39:19,22 40:9 43:16, 17 44:23 45:17 50:12 100:3,5
recognize 20:24 31:1	rejection 68:10	representatives 103:22
recommend 12:17,20 13:2 53:11 85:7 104:20		

reprocess 49:20	results 34:6,7	room 107:15,16
repurposing 70:18 71:4 84:13, 14	retain 70:9,12,19,20	ROSALES 114:15
request 11:6,16 13:25 14:4,9,16 15:23 16:13,21 19:7 26:8 65:21 68:19 92:7 94:14	retaining 69:18	rose 98:23
requested 21:9	retirement 63:20 114:5,8	rough 89:24
requesting 21:15 26:11	retraining 114:16	roughly 16:22 64:23 82:20
require 14:24 28:14 87:22	retrievable 12:12	routinely 49:23
required 15:2 24:25 32:10,11 79:8 82:3 83:13 111:16	retroactively 27:17	rule-making 45:15
requirement 23:19 103:17	return 20:7	rulemaking 52:19 53:15
requirements 14:18,20 17:19 20:1 21:23,25 22:6,7 23:23 27:19, 22,23 28:5,9,12,18 96:12	reuse 80:25	run 9:25 22:18 52:13 72:12 112:17 114:12
requiring 24:12	review 17:21 18:3 21:6 34:11,14, 19 47:21 66:22 67:2 68:9,23 69:4 73:21 74:1,8,16,18 76:15 78:16, 18 90:4	running 97:21
research 11:17 103:8 104:21	reviewed 21:14 23:8	<hr/> S <hr/>
reservation 55:17	reviewing 21:5	sad 61:10
residence 98:9	reviews 29:1	safe 19:18 27:18 28:1 29:16 58:18 59:15 92:18
resident 36:7 72:18	revised 96:20	safeguard 59:4
resistance 38:4	revision 96:22	safely 40:14
resolve 67:6	revisions 79:2	safety 10:12 21:25 22:5 23:3,23, 24 25:7 27:23 28:5 36:12 59:12, 23 60:3,4,7 61:1 65:1 93:1,6,9 103:20 105:16 107:25
resolved 17:6 33:19	RFP 10:7 11:15 13:14 17:5,6 18:7 19:9,12,16,19 21:5 25:23 45:22	safety's 93:13
resource 100:18 101:1,9,12,21	Ribbon 44:9,11	SAFSTOR 92:19
resources 71:15,18 82:14,18 88:23 93:9	rich 71:17	San 32:24 46:25 60:8 64:15 65:7, 10 72:17 75:17 76:20 86:8 88:1 99:4 100:18,21 103:7,20 104:13 105:6,18 107:10,18 111:11
respect 43:8	riders 107:24	Sanonofresafety.org 104:21
respond 83:18	right-hand 75:11	Santa 64:22 75:14,25 76:2,3 77:4,5 100:22
responding 74:6	rights 96:21	satisfaction 59:25
responses 76:12 79:1	rigorous 94:9	satisfied 28:4 33:11 42:14
responsibility 40:14 76:21	risk 17:1 27:24,25 52:5,7,8,13,15, 24 53:3,15	satisfy 67:9 71:9
responsible 76:25 77:7 79:15	risks 11:20 29:7 52:23 53:8	Savage 63:16,22
responsive 19:22	road 96:16,22 97:5,8 102:16	scale 72:23
rest 11:10 63:19 69:4	roads 49:22 97:9 101:5	scary 49:16
restoration 80:13 82:12	robotic 46:23	scenario 55:24
restrict 111:16	robust 14:17 36:4 68:12	scenarios 52:21 56:1 80:20
restriction 87:25 96:15 111:11, 12,20	Rockies 22:21	schedule 51:16 55:9 68:5 79:24
restrictions 24:21	Rod 10:18 51:17 99:23	
	Rodney 10:8 42:20,22 51:23 52:5,16 56:13,17,23 105:15 106:18 109:20	

82:22,25 83:1,5,14,19 92:20 95:7	service 18:21 37:1,25 75:8 91:22 105:7,8	significant 9:2 15:22 25:5 28:25 41:22 81:11 88:3 92:1 110:25
scheduled 20:9 97:22	services 75:13 101:2,19	significantly 25:8
school 73:18 75:14	session 20:9 48:20 58:3	Silo 46:18
scientific 23:9 44:19	sessions 48:17	similar 33:4 113:18
scope 35:2 36:20	set 30:13 35:5 98:10	simple 59:6 96:4
scoping 67:14 78:10 79:24 80:2 83:7,9 107:4	setting 81:7 83:9	simplified 66:3
Scott 20:20,24 24:4,19 25:13 54:2	settlement 14:11 20:2 41:21 94:13 95:13,17	simply 49:1,2 57:23 104:19
scratch 36:24 37:3 38:3	seven-year 41:20	single 15:19 69:23
screen 21:4	shared 66:3	sit 54:17
sea 102:23	Sherri 25:15 27:8	site 11:24 16:10 24:13,17 25:10, 11 31:24 35:20,22 40:5 41:19 43:15 44:17 45:4 47:2,19 48:21 52:9 53:7 57:4 64:19,21 71:3,10, 12 80:13 81:2 87:4,10,23 89:1 93:9 94:8 101:24 105:12 106:7 107:23 110:23
season 93:4,11	shielding 12:6	site-specific 11:19 14:18,21 17:19 31:19,23 32:6,10 53:17 82:25
seconds 72:21	shipping 52:9	sites 45:19 47:9,14,15,16 48:2,6, 7,9 50:17 52:22 53:7 57:6,20 76:1 80:19
secretary 43:21 49:5	short 111:19 112:17	sits 25:10,11
section 10:23 29:4,8 85:4,13,17, 22 86:21 87:5,14 88:16 90:3 93:18	shortcut 60:19	sitting 9:23 104:9
sections 85:11 89:17	shorten 27:20	situ 25:21
securing 93:9	shortens 25:3	situation 22:1 28:11 58:17
security 45:6 47:12	shorter 25:9	size 44:14
Seeley 9:14,18 10:17,24 13:11 20:25 21:3 22:9 23:25 29:20 60:15,23 99:14 109:10	shortly 17:17	skip 11:14
sees 34:23	shortness 24:10	Skull 55:18
segment 10:5 38:11 54:8 56:14 60:18	shot 26:6	slated 94:19
seismic 11:20 14:19 59:12,15	show 53:8 89:22	slide 9:12,21 11:12 12:20 13:18, 19 14:1 15:3 16:10,17 31:18 32:4, 5,19 33:2,12 34:19 35:15 36:18 37:19,20 46:12 62:20,21 64:9,11 66:2,11 68:16 69:8,9,12 70:25 71:12,19 73:4,7 74:9 75:4,18 76:15 77:22 79:16 80:5 81:4,14, 24 82:6,9,21 84:8
selected 37:21 57:6	showed 53:7	slides 13:16,17 43:3,20
selection 12:3	showing 37:24	slightly 24:24
Senate 114:6	shown 15:16 37:9 70:21	SLO 38:17,20 62:16 64:6
send 79:24	shows 64:18	slowly 50:18
senior 17:13 18:19	shut 18:6	
sense 16:17 22:18 87:10,16 98:3	shut-off 93:6	
separate 40:20	shutdown 14:15	
September 36:17 94:19 95:3,5, 21	shuts 11:1,3	
series 80:22	side 10:25 28:21,24 55:11 64:4 72:5,9,13	
serve 84:7	sides' 58:25	
	sight 68:3	
	sign 61:19 79:21	
	signatures 97:1	
	signed 114:8	

small 53:3	24:21 27:13 30:1,5,6,10,15,20	steam 41:3,4 111:14
smooth 92:18,23	31:15 41:1 42:18 43:13 52:9	steel 29:24 30:2 46:7,8,11,17
social 108:3	55:14,16 59:2 92:8 99:20	50:2,3
societal 59:5	spoke 103:21	steels 36:22
Soenen 10:22 13:13,21,22 24:19	spurred 48:22	step 67:1 74:21
25:11 26:6 27:16 31:12,14 38:22	staff 12:21 19:13,16,17 28:20,22	stepping 54:1
39:4 40:24 41:16	55:1 63:19 69:1 72:4 73:20 74:14,	stewardship 40:13
soil 101:11	16 96:17	stock 101:7
sold 113:2	staffing 71:24 72:1	stop 57:10
solution 19:18 29:17 51:4 58:7	stage 68:9 93:24	stops 69:20
106:19	stainless 29:23 30:2 36:22 46:7,	storage 10:10,15 11:18 12:2,5,
sooner 95:4	8,10,17 50:2,3	24,25 14:13,15 16:6 19:18 22:3,4
sophisticated 45:10 53:2	stakeholder 66:12	24:22 25:1 27:12,13 28:5 29:5,13,
sort 15:5,11	stakeholders 20:4	14,16,17 31:15 39:11,17,23
sorts 48:8 104:9	stalled 48:16	40:10,15 41:23 42:19,22 43:16,23
sounds 106:18	stand 58:8	44:6,10,22,24 45:11,15 47:18,22
south 100:23	standard 21:9 47:1 104:13	49:8,21 50:12,20 51:9,14 52:11,
Southeast 47:18	standards 23:9 46:5,16	19,21,22 53:5,8,10,12,14,18 54:6,
Southern 95:8	standing 114:22	14,16,18 55:15,17 56:25 57:15
sovereign 58:21	standpoint 21:20 72:25 74:4	58:13,24 59:14 60:5 99:20,25
space 41:13,18,23 44:4 96:7	80:8	100:2,5,8 105:10 106:6,21 109:19
speak 21:12,13 91:7 106:18	start 17:18 51:5 78:1 83:10 90:5	store 40:21 58:20 59:2
107:7 114:22	91:19 93:19	stored 11:24 24:22 37:10 40:5
speaker 13:12 98:13 100:12	started 39:15 69:5	41:4 104:4,5,24
102:7 103:3	starting 23:5 95:24	storing 45:18 52:8 105:23
speakers 18:8	state 27:1 28:7 32:22 46:25	stormwater 101:6
speaking 93:21 100:17 102:17	48:14,23 55:11,13 58:4,5,21,24	story 55:21
speaks 75:25	65:20 73:17 74:15 75:7 77:2 78:7	Strachan 64:6 71:21 72:2,15
species 70:23	82:2 98:7 100:20 113:4	84:17
specific 14:7 31:25 52:24 53:15	state's 28:10 58:22	strategic 11:13 13:6 14:5 16:23
82:22 89:9	stated 33:7 104:13	69:13 85:20 86:6 95:25
specifically 36:21 39:4 41:1	statelands 67:24	strategy 114:5
57:11 110:22	statement 52:20 54:25 55:12,15	strenuous 55:14
specifics 15:13 19:8	79:7	striping 64:24 65:14
speed 73:3	statements 53:4,17 113:20	strong 48:9 49:13,19 57:18
spell 98:7	states 9:3 28:7,13 39:18 49:19	109:18
spelled 100:16	50:13 58:1 100:1	strongly 13:2 47:15
spending 111:7	stating 33:10	structural 46:15
spent 9:8,20,21,23 10:14 11:2,4,	status 16:18 42:21 54:12 75:19	structure 70:21,24
11,21,23 12:6 15:9 16:25 19:7	stay 39:4 90:19	structures 46:12 87:2 101:8
	staying 56:18	struggling 59:6
		studies 53:15 102:24 103:1

study 19:19 68:25	Susan's 85:15	69:4 71:23 72:6,9 92:21 95:24
stuff 49:22 108:8	susceptibility 37:15	technical 19:10,16 21:13,20
subject 65:11,17 68:25	susceptible 35:9 37:3	23:9,22 28:18,21,22,25 31:6
submit 32:12 33:5 62:5,8 67:25 94:7 95:16	Swanson 98:5,15,18,19,22,24 99:3	54:15 55:6,7 59:13 62:23,24 69:4 109:3
submitted 11:6 17:8,20 32:10 62:13 64:1,4 66:19 67:2 94:12	Sweden 50:17	technology 44:2 45:12,24 46:23 58:18
submitting 34:8 68:20	swim 66:4 97:16	tells 87:10
subordinate 97:12	switch 69:18	temperature 25:22 26:2
substandard 104:3	Switzerland 50:17	temperatures 15:17 93:4
substitute 82:14,18	system 9:20 10:14 11:19 12:2,9, 17,25 13:3 14:10,13 15:3,14,15, 20,23 16:4,7,8,9 19:7 23:17 24:24 25:1,5,7 26:12,19 27:4,5,25 28:2 30:6,7,15 31:22,23 34:22 49:12 50:2 69:24 70:5,9 92:8 103:10	ten 15:15 25:1 85:2
successor 70:14 84:15	system-specific 16:6	tenants 77:10
succinct 85:6 91:16	systems 11:18 12:5,24 22:3,5 26:22 27:17,18 29:15,16 44:17 45:13,19,20 46:6,18 49:25	tend 49:14
suggest 97:23		tens 87:16
suggestion 99:14	<hr/> T <hr/>	term 47:25
suggestions 62:9		terms 21:7 22:14 28:18 48:24 80:2 83:14 114:16,17
suggests 94:6		terrific 61:11
suitable 101:23		territorial 58:22
suite 66:17		test 50:6
summarized 13:19	tab 88:23	testimony 95:25
summary 94:13	table 37:23	testing 12:23
summer 67:7	takes 11:19 52:10 67:15,21 84:5 94:7	Texas 47:20 57:7 58:6 100:8 109:17
sun 23:5	taking 47:3 70:8 87:16	theory 56:25
superior 22:3 27:12 29:13	talk 17:11 22:12 24:18 43:14 44:18 45:20 49:25 64:3 67:13 73:5 78:12 83:4 94:23 106:5	thermal 26:19
supervised 13:4	talked 45:1 46:21 64:12 68:18 71:15 84:12 89:8 92:7 94:25 105:20,24	thermally 60:1
supplement 74:6 76:13	talking 22:12 63:1 82:8 85:24 111:7	thick 29:23 30:3 46:8 104:1,4
supplemental 67:6	tall 85:2	thicker 46:14
supplier 45:21	tangentially 24:24	thickness 21:7 46:4
support 43:25 65:25 70:4 105:20	tantalizing 71:4	thin 103:25 104:1
supports 19:3	tap 92:4	thing 22:24 26:17 48:18 71:8 73:16 87:19 108:2 109:15 112:15, 23 113:12
supposed 99:5 104:15	targeting 17:15,17 18:3 23:16 34:8	things 44:6,21 50:4 71:1,4,7 75:22 78:8,9,20,21 82:24 83:3,4,9 84:6 95:25 96:3,8,10,15 101:10 104:9,10 105:8 106:22,24 112:25
surprising 97:3	task 87:2	thinking 22:14
surrogate 47:4	team 10:21 19:14,22 64:6 68:24	Thirdly 59:20
surround 85:25		
surrounding 85:5 101:24		
survived 29:22 30:11		
Susan 64:5 67:13 72:2,12 84:19, 20,23 87:20		

thought 21:16 24:13 85:3,10,11,
 13 86:24 87:5 94:16 106:14

thoughts 9:6 109:9

thousand 66:15

thousands 87:17

thrilled 72:19

tideline 65:16

tier 80:24

till 95:11 109:12

time 11:21 13:7 15:11 16:12
 17:22 18:5,6 20:5 23:12,15,18
 24:10,25 25:3,4,9 27:20,21 31:6
 37:5 38:11 39:8,14,18,24 40:4
 41:21 42:11 43:2,6 44:7 45:16
 48:25 51:6,8,10 54:8 56:6,14 58:9
 59:4 60:17,18,20 61:19 76:15
 77:20 79:23 82:13 83:13,18 84:7
 87:13 93:24 94:23 95:11 97:14,23
 99:23 103:8,16 104:18 105:21
 107:2 109:5,14 111:2,7,19 112:3,
 7,12

times 18:10 94:18 106:5

timing 92:8

tips 93:7

tire 22:19,20,23

today 68:20 72:13 73:5

Tom 9:5 10:5,18,22 39:5,14 51:18
 54:1 63:6,25 64:8 73:9 74:2 77:1
 84:17,20 85:19 91:8,15,17 92:25
 93:15,19,22 97:18 114:13

tomorrow 49:4,5 68:21

tonight 10:13 19:5 30:15 31:4
 61:19 62:4 92:2,7 93:14,17
 100:17 101:4 110:2,16 112:17,18

top 34:16 57:3 68:6 93:13 106:16

topic 9:10 20:11,17 24:3 38:12
 42:18 51:20 54:9 60:12,18,21,22
 61:22 62:18 63:4 81:22 93:2
 97:21 113:15

topics 19:23 21:15 92:2 93:16
 109:7

total 32:3

totally 110:10

touch 77:24 80:7,18 90:19 93:16

touched 89:6

town 87:18

toxic 40:22 107:21

track 32:12

trade 43:10

traffic 67:8 68:24 69:1 86:25
 87:5,14,18

trail 86:5 87:25

trained 13:4

training 12:23

transcript 98:8

transferred 24:25

transition 27:21 63:25 92:18,23
 114:2

transitioned 48:8

transitions 27:25

transmission 70:6 71:5

transport 52:15

transportability 44:17 46:15
 49:12 105:17

transportable 104:17

transportation 12:16 49:11
 52:24 53:3,15 71:1 75:24,25
 106:12 107:12,20

transported 87:9 105:24 108:4

transporting 105:21

tremendous 45:7 46:22 58:19
 59:3,8

trending 37:17

Trevor 62:14,17,19,21,24 63:3,8,
 9,22 71:22 72:1,15 89:7 90:12

triangle 70:2

tribal 58:14,16,19,21 59:7

Tribe 55:18

tribes 73:18 75:12

Triennial 94:5

trigger 75:1

trip 22:20

truck 72:18 75:24

trucks 87:3,9,17 108:1

trust 14:12 28:13,15 48:5

truth 49:17

tsunami 29:22 102:25

turbine 110:23

turn 72:12 91:14,17 92:25 93:15,
 20 100:11

two-foot 30:3

two-lane 107:22

two-minute 98:2 104:18 107:2

type 27:25 67:20 105:23 106:12,
 25

types 26:22 36:21,22 37:1 38:1
 49:17 76:9 103:24,25

U

U.S. 42:22 50:23 75:8 91:24

UCLA 17:2 19:19

ultimate 39:21 49:14 87:4

ultimately 21:21 59:1

unclear 42:11

understand 24:8 61:17 87:6
 100:9 102:22

understandable 87:14

understanding 25:20 47:6
 113:18

understood 49:24 105:12

underway 47:17 56:2

unexpected 16:9 26:14

unfair 57:7

unfolded 103:13

unincorporated 76:2

unique 31:24 35:19 66:15,18
 69:15

unit 18:6

unit's 14:15

United 9:3 39:18 49:19 50:13

units 27:13

unjust 57:20

unmute 18:16 27:9 109:2

unmuted 62:25

unrelated 93:2

unrestricted 71:11

unstable 60:2

update 9:9 13:25 19:6 42:19,21
90:17,23 91:8 96:14 111:10

updates 94:1

updating 34:5 93:7

uphill 103:11

upper 65:3,5

Utah 48:21,25 55:12,13 58:21

Utilities 64:17 94:3,16 95:14
114:4

utility 69:2 72:23 94:20

V

valid 114:15

Valley 55:18 75:12

valuable 99:19

vendor 36:4

vendors 21:16

vent 26:23 104:3

venue 113:22

venues 92:3

versus 25:6 37:9 52:9

vetted 13:4

Victor 100:16

video 67:19,21

videos 73:2

view 38:20,21,22 58:18

viewpoint 54:20

viewpoints 59:1

violates 100:1

Virginia 47:3

vision 11:13 13:6 14:5 16:23
69:13 85:20 86:6 96:1

visual 104:20

volt 69:24

volts 70:8

volume 70:16

volumes 76:9

voluminous 84:5

volunteer 99:8

voted 55:19

voters 86:9

vying 45:22,23

W

wait 23:16 55:8 109:12 110:16
111:22

waiting 50:11,21

walk 16:18 83:3 102:19

walked 14:6 26:24

Walker 98:5 100:14 102:8 103:3,
4,6 104:19

wall 103:25 104:1,5

wanted 11:13 14:2 26:4 84:15
86:2,3 87:19 93:12,13,16 109:25
110:18 111:9 112:23

wash 29:10

waste 11:22,23 23:1 40:1,18,21
41:2,5,7,12 47:19 57:1 76:9
110:8,9

wastewater 76:10

watched 73:2

water 65:15 76:9 101:5,6,7,10,11,
15

waters 110:22

ways 52:19 53:14 57:20 85:19

website 62:5 67:19 74:13 79:19
88:21,22 93:6

week 93:5 95:8

weigh 58:25 59:10 79:10 114:5

welcoming 91:20

well-done 85:3

well-informed 54:21

wells 102:18

wet 14:14 25:1,3

wetland 82:16

wetlands 82:17

whoops 9:15

wide 37:24

Wild 86:14

wildfire 93:9

wildlife 75:8 105:8

wind 69:16 110:23 111:8

window 23:6,12,16,18

winning 17:15

withdrawal 107:21

wondering 38:19 54:3,5 57:11

WOODRUFF 38:13,24 39:7,24
40:16 41:10,24 56:22 84:23 102:5
110:14

word 101:17 104:22

work 17:9 18:21 43:9 44:22 45:16
48:10,14,16 63:3,17 65:23 68:13
69:3 70:21 71:16 83:10,25 85:17
87:13 96:5,6,11 99:8

worked 83:15 84:1

workers 12:18 14:22

working 30:22 43:12 50:18
51:11,12 63:18 64:5 66:13 67:24
69:6 72:23 92:21

works 67:15 72:7

workshop 61:7,13,15 99:14
109:24 112:10

workshops 16:24,25 17:1 66:12
85:24 99:19

wow 106:18

write 95:24

written 109:18

wrong 59:18,20

wrote 54:15 59:12

Y

year 17:17 32:15 34:9 47:21,24

48:19 53:7 83:2 93:3 95:2,12
96:19

years 14:15 15:15,17 16:22 25:1,
4 31:21 32:7,11 34:14 35:15
37:25 39:9 40:17 44:13 45:14,24
54:19 56:7 58:14 59:10 60:5,8
66:10 94:6 96:19 99:10 102:13,
14,16 103:21 105:22 111:17,21
112:1 113:5

years' 43:12

yellow 17:7 33:20 65:3 66:25

Yolo 83:15

Youtube 67:19

Yucca 40:1

Z

ZAWALICK 91:10,14

Zeek 9:13,16 13:17 20:19 30:17
51:24 52:2 62:23,24 64:10 98:10,
11,16 104:18 107:2 108:14,18,24
109:3

zone 32:25 33:6,10 34:17 65:4
66:9 72:24 73:13,14