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Community Engagement Panel Public Meeting

Transcript of Proceedings

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1	SAN ONOFRE DECOMMISSIONING
2	COMMUNITY ENGAGEMENT PANEL MEETING
3	STATE OF CALIFORNIA, COUNTY OF SAN DIEGO
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9	TRANSCRIPT OF PROCEEDINGS
10	OCEANSIDE, CALIFORNIA
11	THURSDAY, AUGUST 28, 2014
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24	REPORTED BY: JANETT JIMENEZ
25	CSR NO. 13215

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2	COMMUNITY ENGAGEMENT PANEL MEETING
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10	Transcript of proceedings, taken at 1938
11	Avenida Del Oro, Da Vinci Room, Oceanside, California
12	92056, commencing the hour of 6:14 p.m., Thursday,
13	August 28, 2014, before JANETT JIMENEZ, CSR NO.13215.
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    PANEL APPEARANCES:
 2
       DAVID G. VICTOR
       CHAIRMAN
 3
 4
    CEP MEMBERS:
 5
       DR. WILLIAM PARKER
       UNIVERSITY OF CALIFORNIA, IRVINE
 6
       EDWARD "TED" QUINN
 7
       AMERICAN NUCLEAR SOCIETY, SAN DIEGO CHAPTER
 8
       JEROME M. "JERRY" KERN
       OCEANSIDE CITY COUNSEL MEMBER
 9
       GENE STONE
10
       RESIDENTS ORGANIZED FOR A SAFE ENVIRONMENT
11
       SUPERVISOR PAT BATES
       ORANGE COUNTY
12
       LARRY KRAMER
13
       ALTERNATE FOR MAYOR SAM ALLEVATO
14
       MAYOR TIM BROWN
       SAN CLEMENTE
15
       DAN STETSON
16
       OCEAN INSTITUTE
17
       GERRY BROWN
       ORANGE COUNTY COASTKEEPER
18
       VALENTINE "VAL" MACEDO
19
       LABORERS INTERNATIONAL UNION OF NORTH AMERICA
20
       DONNA BOSTON
       ORANGE COUNTY SHERIFF'S DEPARTMENT
21
22
    ALSO FROM SOUTHERN CALIFORNIA EDISON:
23
       TOM PALMISANO
24
       CHRIS THOMPSON
25
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ma	inscript of Proceedings		Community Engagement Panel Public Meeting
1	THURSDAY, AUGUST 28, 2014, OCEANSIDE, CALIFORNIA	1	is circulated before and after these meetings. You can
2	6:18 P.M.	2	request a speaker to come to an event. No birthday
3	* * *	3	parties and thing like that, but come to an event to
4		4	talk about what's going on at the plant. We had one of
5	CHAIRMAN VICTOR: Good evening to everyone.	5	those events last night. Dan Stetson at the Ocean
6	The traffic tonight, as all of you know, unless you've	6	Institute hosted an event to help bring in some
7	been camped out here since our last meeting, is	7	communities that have not been as actively participating
8	horrific. I also want to thank SDGE for opening many of	8	in this process. That by all account was a terrific
9	the roads so we can see inside tonight. So we decided	9	event. I'm sure Dan will say more about it later. Very
10	to start the meeting a little bit later, and now I think	10	soon you're going to be able to register for a walking
11	we should begin, and some of the folks I'm sure will	11	tour of the San Onofre plant, and you can get updates on
12	trickle in as the meeting gets underway. My name is	12	meeting notices and other kinds of material. Tonight we
13	David Victor. I'm chairman of the community engagement	13	have, I believe, 12 out of the 18 members of the
14	panel. Welcome to everyone to the third official	14	Community Engagement Panel, depending exactly what goes
15	meeting of this panel. Tonight you'll hear more	15	on with the traffic. So tonight we will in addition to
16	about our agenda in just a moment. Tonight we're going	16	the normal practice of identifying issues that are
17	to be focusing on the decommissioning plan, the	17	raised to follow up on, we're also going to identify a
18	decommissioning cost estimate, the environmental	18	handful of issues where we can particularly make sure
19	assessment and the so-called post shutdown	19	that Edison and I as chairman of the CEP follow up with
20	decommissioning activities report, PSDAR. A lot of	20	the members who are not here. These issues are very
21	acronyms in this business that give us a strategic sense	21	important. And I'm also quite mindful that it is a
22	of what's going to happen at this site over the coming	22	Thursday night before a long weekend and people have a
23	decade and beyond. And I know there are a lot of other	23	lot of other things going on, and so our attendance is a
24	issues people are interested in talking about. Those	24	little bit lower than usual. And I also want to thank
25	are the central points for tonight's tonight's	25	those of you who are physically here because we very
	Page 4		Page 6
1	meeting. Let me thank the people of Oceanside for	1	much appreciate your services and your interest. When
2	hosting us here tonight and also the police department	2	we get to the public comment period and during the back
3	for providing us with police and security tonight.	3	and forth involving the panel, please identify yourself
4	Thank you very much for your service. A reminder to	4	so that the live stream will accurately know who is
5	everyone that should we have an emergency and you need	5	speaking and we can keep all that information in order.
6	to leave the room or you just don't like what's going on	6	And if you have not done so already, there will be a
7	in here, you can leave through the exit that you came in	7	public comment period at this meeting, as is the norm
8	or out through that exit that's marked exit that is open	8	for all of our meetings of this panel, the official
9	to the side there. Just a couple of opening remarks	9	meetings of this panel. And so if you would like to
10	from me, and then I'll ask Tim Brown, vice chairman of	10	make a public comment, each of them is three minutes
11	the CEP, for his opening remarks before we begin the	11	long. And if you haven't done so already, go head to
12	rest of the meeting. I just want to remind everybody	12	the back of the room, there is a signup list. Put your
13	there is a website terrific website,	13	name down on the list, and we'll work our way down the
14	www.songscommunity.com, that has on it all the materials	14	down the list. I wanted to say one last thing in
15	related to the CEP, the transcripts of prior meetings,	15	terms of opening remarks which concerns the role of the
16	live streaming is archived. Tonight we are live	16	Community Engagement Panel. Tim Brown and I since our
17	streaming. This will be archived as well. Welcome to	17	last meeting have done a survey of every member of the
18	the millions of viewers around the world who are	18	Community Engagement Panel just to ask how it's going,
19	watching us tonight. You can also send a message to the	19	what's working, what's not working? The results of that
20	CEP. And I'll say a little bit more about that process	20	survey we circulated earlier today. We've also posted
21	in just a moment, but there is a section on the website	21	them. I believe they're already posted on the San On
22	where you can do that. You can read every single	22	the songscommunity.com website. And the the one
23		23	of the results from the survey the central result of
	document that is circulated to the CEP. We have been	22	
24	very aggressive about making sure that everything we do	24	the survey is people are comfortable with how the the
24	very aggressive about making sure that everything we do	24	the survey is people are comfortable with how the the

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	that we cover a wide range of issues in addition to the	1	with. So I think that we still have engaged, and if
2	time that we spent already on spent fuel. There are a	2	there are folks that are still, you know, they're not
3	number of other issue, including at our next meeting on	3	here, they're still staying up on the material, and next
4	the 6th of October we will be focusing on emergency	4	meeting they'll be ready to pick up right where they
5	preparedness. Extremely important topic for this plan	5	left off.
6	as the footprint shrinks and as the owners and operators	6	CHAIRMAN VICTOR: Great. Thank you very
7	of the plant figure out what the right emergency plan is	7	much. Let me move to the next part of our opening
8	going forward. That will be the subject of our next	8	section meeting, which is on decommissioning core
9	meeting. And people urged us to make sure we have a	9	principles and values and the role of the CEP in
10	balance in the topics that the CEP spends its time on.	10	providing feedback not only tonight, but also written
11	Many people said that they continue to see confusion as	11	feedback to Edison on these various regulatory filings.
12	to what the exact role of the CEP is. So I want to just	12	Let me just remind everyone that today's meeting
13	remind everyone, remind our panel, and we're going to	13	benefited from a workshop that we held in July to look
14	begin every meeting with a comment along these lines,	14	at drafts of the summaries of all of the documents that
15	the essence of which is, this is not a decision-making	15	we'll be looking at tonight, and these documents have
16	body. This was explicitly designed not to be a	16	been provided to the panel and provided to the public
17	decision-making body. There are lots of decision-making	17	several weeks ago. People have had a lot of time to
18	bodies that are addressing various aspects of this	18	look at them. And then over the next week we're going
19	plant. And the moment you make a body like this a	19	to be collecting, in addition to comments tonight, we're
20	decision-making body, then the character of the body	20	going to be collecting any written comments that the
21	changes. Instead it was designed to provide a two-way	21	panel has on this so that Edison can incorporate those
22	conduit for information between the owners of the plant	22	in its regulatory filings before it submits its final
23	and Edison in particular, which is operating the plant,	23	versions. One of our important roles here has been to
24	and the community about a whole range of really	24	help Edison engage in regulatory filings that are coming
25	important issues, like the issues we're discussing	25	very, very quickly as the plant goes into
	Page 8		Page 10
1	tonight that concern the decommissioning process. And I	1	decommissioning and eventually into deconstruction and
2	think equally important is the conduit from the public	2	removal. Chris Thompson, the floor is yours.
3	back to Edison about what does the public care about,	3	CHRIS THOMPSON: Thank you, David. Good
4	how does it view some issues, how does it view the kinds	4	evening. My name is Chris Thompson. I'm vice president
5	of questions that we'll be talking about tonight. And	5	of decommissioning at Southern California Edison, and I
6	the idea is to make sure this conduit flows well in both	6	just wanted to as we start this meeting remind everyone
7	directions. So comments that you have about how we can	7	of the core principles that are guiding us and the other
8	make that conduit work better and what needs to be in	8	co-owners through this decommissioning process. At the
9	the conduit are of exceptional importance, but I just	9	outset of all of this we issued three core principles
10	want to remind everyone that this is not by design is	10	that we're going to follow. Those are safety, storage
11	not a decision-making body. And we will remind	11	ship and engagement. Safety to us means the safety of
12	everybody of that in the beginning of each of the	12	the workers who are doing the work of decommissioning,
13	meetings because I think we want to make sure we have	13	the safety of the communities that surround the facility
14	the right kind of tone and character of the work that is	14	and the safety of the natural environment. Storage
15	in front of us. Let me pause for just a moment and ask	15	ship, including the storage ship of the the wise
16	Vice Chairman Tim Brown if he has any opening remarks	16	storage ship of the trust funds that have been
17	before we get moved to the rest of our agenda. Tim.	17	contributed to over the life of the plan by our rate
18	TIM BROWN: You know, nothing really to add.	18	payers. And engagement, which you see tonight and we
19	I do acknowledge that with all the Labor Day plans and	19	also take very seriously. As David said, we intend for
20	processes, I had a chance to speak with some of the	20	the Community Engagement Panel to be a two-way conduit
21	members who aren't going to be here. They send their	21	for information, and we will soon be filing a couple of
22	apologies, but work demands and other activities are	22	major regulatory filings. The panel has had those for
23	important. But everyone conveyed that they will take	23	about four week, and Dan Stetson as the secretary of the
24	very seriously that they've read the material and	24	panel will be aggregating the feedback that we receive.
25	they'll be prepared for the next meeting that I spoke	25	We've already gotten feedback from a handful of members,
	Page 9		Page 11

Tra	Cranscript of Proceedings Community Engagement Panel Public Meeting				
1	and we will incorporate some of that feedback, take it	1	spent wisely only once to avert any type of seen		
2	under consideration and let the panel know its	2	generator disaster and debacle that we had earlier for		
3	disposition, what changes were made in response to the	3	the future safety of all of California. And I hope that		
4	feedback, and if changes weren't made, what the reason	4	many of my fellow CEP members will join me and the		
5	why is. But that is, as David alluded to, this is one	5	others to encourage California Edison to consider this		
6	avenue of engagement. We're beginning a number of other	6	point of view. Thank you very much.		
7	things, including the public tours. And a lot of people	7	CHAIRMAN VICTOR: Thank you very much, Gene.		
8	request a speaker to have somebody come out to their	8	I just want to remind the public that at our last		
9	group and talk about decommissioning. So thank you for	9	meeting we agreed that there were a large number of		
10	being here and participating in this.	10	important technical issues surrounding the choice of dry		
11	CHAIRMAN VICTOR: Great. Thank you very	11	casks and the kind of vendor and the kind of materials		
12	much, Chris. I just want to see if there are any other	12	involved, and these ultimately are involved tradeoffs		
13	opening remarks from the panel. I know, Gene Stone, you	13	and they also involve a huge amount of technical		
14	wanted to make a comment. Do you want to make that	14	information. And the agreement that we made on this		
15	comment now, or would you prefer to do it after we work	15	panel was that I would work with a handful of members of		
16	through the core of the meeting today, which is about	16	the panel who were interested in this topic, including		
17	the environmental assessment and the cost estimate of	17	members of the public, and identify key technical		
18	the PSDAR?	18	questions, and we would work on providing answers to		
19	GENE STONE: I think now.	19	those questions. And there are seven questions. We		
20	CHAIRMAN VICTOR: Okay. Gene.	20	have circulated that material around. I am very close		
21	GENE STONE: So I just wanted to give an	21	to having finished a draft of the lit review around		
22	update on our trip to see Ken Alex on August the 14th.	22	these seven technical questions so then we can figure		
23	So we went to speak with Ken a couple of days after the	23	out what we do, what we do next. It's taken a bit		
24	senate committee, and we spoke to him on several items,	24	longer. It's taken me now about 50 hours of continuous		
25	one of which was the dry cask to make sure that we make	25	work to just get through the literature. It's a huge		
	Page 12		Page 14		
1	the right choice here at San Onofre and elicit his help	1	amount of literature in this area, but I'm very close,		
2	to do that. So he suggested that we talk with the State	2	and I look forward in the matter of the next few days to		
3	Energy Committee, the California Energy Commission and	3	circulating that draft and also the summary of that		
4	the PUC, which we did. We saw five senators that were	4	draft, which I think makes it pretty clear what's going		
5	on that Energy Committee. We shared testimony from our	5	on inside the nuclear regulatory commission, what's		
6	point of view. And I should say, it's Donna Gilmore and	6	going on in terms of the choice of the casks and things		
7	I went up there. So then we received an invitation to	7	like that. And so I thank all of you for your		
8	the next senate hearing sometime next year. I don't	8	indulgence, everyone for their patience and a very large		
9	believe the date has been set yet. So now we have	9	number of people for their time and input as we work		
10	ongoing meetings and talks with all of these agencies.	10	through this technical material.		
11	Because in this committee we've had discussion about a	11	Let me just say one last thing about this,		
12	California consolidation plan. I brought that up to	12	which is my goal in this is to make this technically		
13	him, and his first reaction was he laughed. He just	13	accurate but also understandable to average people,		
14	said he didn't know anyone that would take on an effort	14	which turns out to not always be true in our sea and		
15	like that because it would take, in his mind, 50 or 60	15	chemistry documents. So we're trying to get this right,		
16	years to make that happen. So he didn't see Governor	16	but also to make this as accessible to the broad public		
17	Brown taking on that issue and thought it was a very	17	that wants to read this material and understand how		
18	uphill battle for all of us to consider. So and my	18	these choices are made, what we really know about		
19	the last thing I wanted to say was that I have been	19	corrosion and things like that, which are very important		
20	talking with different members of the CEP here, and I	20	questions for the last-term aging of casks. Okay.		
21	believe that many members of the CEP and many members of	21	Now let's move on to the core part of our		
	the public that are sitting here tonight want what we	22	meeting tonight, which is going to revolve around a		
22			heisfing from Edison and Tom Delusions Chief Neelson		
22 23	are trying to say to California Edison that this process	23	briefing from Edison and Tom Palmisano, Chief Nuclear		
	should be slowed down to ensure the best possible choice	23 24	Officer of Edison, will walk us through the highlights		
23			-		

There will be opportunities to ask clarifying questions also reviewed recent decommissioning plant submittals to 2 by the panel along the way, plus opportunities at the 2 the NRC from other utilities. What are these other end to ask more questions and have some discussion about 3 3 utilities providing to meet the NRC's expectations, what 4 is the NRC looking for when they review these. The 4 this. So, Tom Palmisano, the floor is yours. 5 TOM PALMISANO: Okay. Thank you very much. 5 content is basically a description of the plant I'd like to stand up so I can really talk to not only 6 6 decommissioning activities, the development of the 7 7 the panel, but the audience more directly. Excuse me. schedule for these activities, the expected cost and the 8 So what I'm going to do tonight, I have a heavy duty 8 discussion of the environmental impacts. Now, we laser pointer to see if this can show on the screen. Is 9 9 decided in June 2013 to permanently cease operation at 10 that visible at all? Doesn't look like it. We'll 10 or decommissioning. So we all need to think about this 11 abandon the laser pointer. So what I'm going to do 11 as the initial plan. It certainly will be changed over tonight, a little different sequence in the agenda. I'm 12 time as we do more detailed planning. We're expected to 12 13 going to talk about the post shutdown decommissioning 13 keep this up to date. So the process from here on out, 14 14 activities report. We've talked about this a bit and if you were at the NRC informational meeting in 15 15 previously, and I've showed documents from the Kewaunee September of 2013, they covered some of this, and in the 16 16 plant to the Crystal River plant with the panel, and I workshop Bruce Watson, a branch chief of the NRC, also 17 think we've posted that for the public. This is a 17 talked about this recently with us. So we will submit 18 18 summary level document, typically about 50 pages. The the PSDAR to the NRC for review. A copy is sent to the 19 content requirements are mandated by the NRC, and it 19 state of California for information. That's a 20 summarizes the overall decommissioning plan, it 20 requirement. The NRC reviews and confirms that the post 21 21 summarizes the environmental impact evaluation, and it shutdown decommissioning activities report is adequate. 22 summarizes the decommissioning cost estimate, and it's 22 In other words, it meets the regulatory requirement for 23 23 supported by these other documents. The environmental content. It has all the required content and the 24 24 impact evaluation we'll talk about. We had the workshop required level of detail. They also at that point post 25 25 on this, and we went into a fair amount of depth on what the PSDAR publically. Now, we have posted the drafts Page 16 Page 18 1 1 it is. We've provided it to the panel back on August publically. They will notice it in the federal register 2 2 1st, and it's a voluminous report. This is an that this is the submittal that's available for public 3 3 evaluation done under the federal NEPA, National review and comment. We will also post it on our website 4 Environmental Policy Act, and the NOC's implementation 4 as we submit it. So you'll have multiple ways to access 5 5 the final document. The NRC then has a 90-day period, of that to assess decommissioning, and then the 6 and during that period they will hold a public meeting 6 decommissioning cost estimate. As part of moving into 7 7 to discuss the PSDAR. We will be at that meeting and we decommissioning, we are required to do a site-specific 8 decommissioning cost estimate. What we've been required 8 will explain the PSDAR both to the NRC and to the 9 public, and then they will talk about their review and 9 by the NRC and the California Public Utility Commission 10 10 for a number of years is for the Public Utility solicit any comments from the public. We are not 11 Commission every three years to provide a cost estimate allowed to proceed with major decommissioning 11 12 12 and an update. Annually we update the NRC to assure the activities. Some of you remember -- may remember our 13 funds are being contributed to and maturing properly. 13 first meeting we talked about three large phases to Now, though, this is the first site-specific analysis of 14 14 decommissioning. We're in the planning phase. Not only the decommissioning cost of San Onofre. Again, we went 15 in the first two and a half years we're not authorized 15 16 into this in some depth in the workshop so I'll recap 16 to conduct major decommissioning activities, which are 17 17 that and we'll really see what your questions are now large radioactive component removal, things like that. 18 that you've had some time with the detailed documents. 18 Yes? So with that, what I've just given you the overview and 19 WILLIAM PARKER: Question. Bill Parker. 19 20 Where will those public hearings be held, in Washington 20 then we'll take CEP comments, questions. The sequence 21 or in California? 21 here as I laid it out, so the post shutdown 22 decommissioning report, this simple slide tells you the TOM PALMISANO: No, they'll be held locally. 2.2 23 basis starts with 10CFR, Code of Federal Regulations, 23 The one we did last fall I think was done in Oceanside. 24 Section 50, Part 82. Then the NRC Regulatory Guide 24 They are held in the vicinity of the plant to make it 25 accessible to the locate stakeholders. 1.185. Just a lot of background detail for you. We 25

Page 17

Transcript of Proceedings

Transcript of Proceedings **Community Engagement Panel Public Meeting** 1 to 12 months to develop the initial decommissioning WILLIAM PARKER: Thank you. 2 TOM PALMISANO: So, anyway. So during this 2 plan. As I said earlier, this is an initial plan. It 3 3 90-day period the NRC reviews this, the public has an is still somewhat high level. We have yet to hire a 4 opportunity to comment. The NRC, this is not a document 4 decommissioning contractor who will come in and do the 5 like a license amendment where they formally approve it. 5 more detailed planing underneath this level, and that's After 90 days if they have questions, we're expected to 6 6 a year away before we do that. So we've seen -- we've 7 7 respond and amend the report if they feel something is shown you the 20-year time line before. I'm not going 8 lacking. But if they have no questions, they accept it, 8 to spend a lot of time. I just want to recap. The top and at the end of 90 days is we're authorized to move 9 9 line is not to scale. The bold vertical line is January into phase two of decommissioning. The last line is 10 10 2016. So everything to the left of that is in this 11 particularly important. The PSDAR is a living document. 11 preliminary planning phase. We've talked before about We are required to keep it up to date. It's not on a 12 12 the various license submittals, about the physical 13 frequency. It's really as our plans change or 13 changes we made to the plan as we retire systems, we 14 conditions change. And, you know, if there is a major 14 drain acids and caustics out of systems we no longer 15 15 change to a planned activity or a schedule, we want to need. All of that is part of the preliminary 16 use a different process than we've previously described 16 activities. Those are not major decommissioning or a different sequence, we need to update the PSDAR. 17 17 activities. Decisions which we have not made yet on how 18 18 The NRC really uses that to outline their inspection to expand the ISFSI, what vendor to select, that's all 19 activities if they come and inspect. Now, we also have 19 in the planning phase. To the right of the bold line 20 virtually weekly contact with the NRC for inspection 20 would be the start of phase two once the NRC accepts the 21 PSDAR and the associated documents. That for us is 21 planning, so that's somewhat of nominal requirement. We 22 22 also submit any updates to the state of California as basically first quarter 2016 when we really mobilize the 23 23 well. Recent plants who have entered decommissioning or decommissioning contractor, do the more detailed 24 proceeded through decommissioning might update a PSDAR 24 planning and begin the start of major dismantlement and 25 three or four time during the course of a 10- or 15-year 25 decontamination phase. And then to the far right, a Page 20 Page 22 1 period. It's not a frequent thing. It's major changes 1 little hard to read, you'll see things like license 2 and likewise major cost changes need to be reported in 2 termination plan, site restoration. License termination 3 the PSDAR. 3 plan we'll talk more about that as we complete the 4 CHAIRMAN VICTOR: Can you say a couple 4 nuclear radiological piece of decommissioning. We have 5 5 to go through the NRC to actually demonstrate we've meet words, Tom, about what other plants have found to be 6 6 major things that they have learned along the way that the cleanup criteria and terminate the NRC license, and 7 7 then there are other activities to finish the site for could not have been anticipated in the original PSDAR. 8 TOM PALMISANO: Sure. The types of changes 8 non radiological cited restoration. Now, with that I'm 9 9 you might see, one would be a cost change, because the going to show you a slide you have not seen before. So 10 PSDAR summarize the cost estimate and they're separate 10 from here on out we're going to talk about three 11 reporting, but if you have a major cost change you do categories of activities and three categories of cost. 11 need to update your PSDAR. Let's say you decide you're 12 License termination -- yes, sir. 12 13 going to change your sequence or you decide you're going 13 TED QUINN: This is Ted Quinn. Is it to not remove a containment building. You're going to 14 possible to get -- for the committee members to get a 14 decontaminate it, release it radiologically but leave it 15 large copy of that schedule? 15 16 in place. That would be a major change that would cause 16 TOM PALMISANO: Yes. 17 17 us to do that. Those types of things. If I decide to TED QUINN: One that we can read. 18 use an underwater cutting tool versus a laser cutting 18 TOM PALMISANO: Yeah. tool, that's not the kind of change they're interested 19 TED QUINN: I can't read this. 19 20 TOM PALMISANO: We'll be glad to provide. 20 in. They're really interested in what's the sequence of 21 planned activities is really what they're interested in, 21 And I appreciate that, and I apologize for not having because that's what they cue that inspections on. 22 that. 2.2 23 CHAIRMAN VICTOR: Thank you. 23 TED QUINN: Okay. Thanks. 24 24 CHAIRMAN VICTOR: Let me just say that I TOM PALMISANO: So before I get into the 25 25 PSDAR itself, we've done a lot of work in the last six think the printout that we have of the slides is a Page 21 Page 23

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting		
1	generation old. I think I saw it was an earlier	1	removal of facilities on the site as we complete the		
2	draft of the slides. Oh, no I my printout. My	2	decommissioning. With that going a little too fast.		
3	fault. So there is an accurate printout here somewhere.	3	Okay. This is a slide you have not seen before. And,		
4	TOM PALMISANO: Yeah.	4	again, we'll get you a bigger copy. I've color coded		
5	CHAIRMAN VICTOR: Oh, that's the source of	5	the activities, though. The top line is the license		
б	the microscopic comment. Yea, let's post those slides	6	termination activities, the center section in yellow is		
7	online, if that's possible.	7	the spent fuel management activities, and the red at the		
8	TOM PALMISANO: We will. We always do.	8	bottom is the site restoration period. This is a level		
9	They've all be been posted before.	9	of detail that I'm going to show you in a minute, and		
10	CHAIRMAN VICTOR: Maybe in the future when	10	I'm going to take us back to this slide. So before I go		
11	there are things like this that are so important, we can	11	over this slide, on the next table this is out of the		
12	circulate a copy of the slides that are going to be	12	PSDAR and the decommissioning cost estimate. This is		
13	particularly hard to read.	13	the level of detail we touched on a bit in the workshop,		
14	TOM PALMISANO: We'll do that. And for	14	but really now we've finalized the initial plan. So		
15	something like a time line, I can bring in a large	15	these time periods on the left you can see June 13th		
16	11 X 17 and make it available to the public as well as	16	June of 2013 to December 2013. You see period two,		
17	the panel, so thank you for that. We will do that.	17	which we're in now, January 2014 to June 2015 on down.		
18	CHAIRMAN VICTOR: Thank you. Well, let me	18	These define in the PSDAR and the cost estimate the six		
19	just say that the world's trees are already trembling	19	periods for the NRC license termination. And I'm not		
20	from the people who've printed out the documents in	20	going to read every line, but I'll narrate the major		
21	advance of today's meeting, so don't ask for too much	21	activities. In the description column are activities		
22	paper.	22	like, you know, vendor mobilization, system		
23	TOM PALMISANO: Yeah. And we would	23	decontamination, reactor internals removal preparation.		
24	encourage this is all posted online so please download	24	So this is the level of detail now we've developed to		
25	it, and you can then expand it on a computer. You know,	25	inform the NRC and the public and develop our cost		
	Page 24		Page 26		
1	please, we want this to be available to you to take a	1	estimate as to what's going to be going on in that time		
2	look at this.	2	period. Likewise there are periods for spent fuel		
3	So the categories license termination is	3	management, and there is actually two major periods		
4	really what the NRC regulates in terms of the	4	here. The first one, June 2013 all the way to December		
5	radiological decommissioning and release of the plant.	5	2049, this is the period where we transfer the fuel from		
6	Spent fuel management clearly regulated by the NRC, but	6	wet storage to dry storage and the dry storage facility,		
7	a different category of activity and cost. And the	7	the independent spent fuel storage facility exists. And		
8	third is site restoration, which is not an NRC activity.	8	then after the Department of Energy steps up and		
9	This is the activity that is of interest to the owners,	9	performs, the fuel's removed from the site. Current		
10	to the states, to the counties, to the local	10	dates from the Department of Energy put that in the 2049		
11	communities. This is really removing buildings. For	11	time period. We will then demolish the ISFSI and remove		
12	example, most sites would really do all three and	12	that facility as part of the license termination plan.		
13	restore a site, let's say, to a green field condition	13	CHAIRMAN VICTOR: Can I just can you		
14	such as was done in Main Yankee, Connecticut Yankee, Big	14	update us as to the status of the integrated fuel		
15	Rock Point, et cetera. But if you were to go to the	15	management program. There was some comments in advance		
16	Trojan Plant in Oregon, when they originally	16	of the meeting about where we stand with that. We		
17	decommissioned they left the containment building	17	looked already at a draft. Where are we with that		
18	initially. If you go to Rancho Seco near Sacrament, I	18	process and where are we		
19	believe their containment building is still there.	19	TOM PALMISANO: That document is drafted.		
20	They've completed the license termination and	20	Comments have been incorporated. We had the workshop,		
21	radiological decommissioning, which means they've	21	the fuels workshop, and then the CEP meeting in May was		
22	cleaned all the radioactivity and satisfied the NRC.	22	devoted to the radiated fuel management plan. So that		
23	The building is released. Then it's a non NRC licensed	23	document has been reviewed and commented on by the panel		
24	facility from that standpoint. That's not our intent,	24	members. If we've gotta close the loop with comment		
25	but that's what's in site restoration is completing the	25	disposition, we'll include that, as Chris said in the		
	Page 25		Page 27		

Tra	nscript of Proceedings	Community Engagement Panel Public Meeting	
1	earlier comment. But that basically is pending final	1	WILLIAM PARKER: Exactly.
2	approval by the owners and then submittal to the NRC.	2	TOM PALMISANO: We all share the skepticism,
3	CHAIRMAN VICTOR: Okay. So that's still	3	but I needed something to base a cost estimate and a
4	with the owners right now.	4	schedule on, so that's the best I have to date. We're
5	TOM PALMISANO: Yeah, that is still with us	5	not naive. So we'll be glad to discuss that at an
6	at this point, yeah. And that would be my intent is to	6	upcoming
7	submit that along with the post shutdown decommissioning	7	CHAIRMAN VICTOR: There has been a lot of
8	activities report, the decommissioning cost estimate at	8	discussion about devoting a meeting early in 2015,
9	the same time in the latter part of September. Yes,	9	perhaps the first quarter of 2015, to refresh on where
10	sir.	10	we stand. I think at that point we come back, we have
11	WILLIAM PARKER: As we've talked about	11	began this very interesting conversation about what, if
12	before, Tom, these documents and time periods are within	12	anything, we can do in Southern California to help put
13	the NRC context. So you're talking about transferring	13	pressure on the federal government. All these jokes
14	the fuel to the federal government by 2049?	14	begin when the DOE does its job. And then you
15	TOM PALMISANO: 2049, yeah.	15	continually express the joke after that. So we need
16	WILLIAM PARKER: And that's the guidance you	16	we're going to visit all that in 2015, but I think for
17	have from the NRC. Those are the documents you have to	17	the purposes of this, we need to stay focused on these
18	submit to the NRC. But at some point can you share with	18	regulatory filings because they're coming up and we want
19	this panel what Southern California Edison would do in	19	to make our input time.
20	the event that the federal government doesn't meet its	20	TOM PALMISANO: Right. I appreciate that.
21	requirements and what your internal planning is for that	21	GENE STONE: In addition, one last thing on
22	possibility. I understand these are the NRC	22	that. When you give us those alternative plans that you
23	requirements, but I would hope you would be looking	23	might have, will that include the cost and how the money
24	beyond the regulatory requirements to the likely	24	is going to be spent after that?
25	possibility that these materials will be on site well	25	TOM PALMISANO: So, Gene, I think we'll come
	Page 28		Page 30
1	beyond	1	in and talk about what the contingency will be if the
2	TOM PALMISANO: And we certainly are. And I	2	DOE can't perform, and we'll talk wholistic. So I'll be
3	think we	3	glad to put that on there, okay.
4	CHAIRMAN VICTOR: Please. Please. As is	4	So now that I've shown you a table, I really
5	the norm in these meetings, let's just allow the	5	want to take you back to the diagram here. So the panel
6	exchange to happen. People	6	members have, I guess, a reduced copy of the slides. So
7	TOM PALMISANO: We certainly are, and I	7	8
8	think we're planning on another event on spent fuel	8	green lines at the top. The long bar, the first of the
9	early next year, and I think we'll be able to talk about	9	long bars would be decommissioning period three. Let me
10	what the longer term plans look like.	10	give you a feel for that. So that's scheduled July 2015
11	WILLIAM PARKER: To fully understand, there	11	to June of 2019. At that point we've entered the major
12	are certain things you have to do for the NRC which are	12	decommissioning phase. We're mobilizing a vendor, we're
13	mandated and you obviously have to go through it, but	13	decontaminating the radioactive systems that are
14	there is another set of issues that you might share with	14	generally in the containment building or the auxiliary
15	us independent of the NRC.	15	building, the fuel-handling building, and we're
16	TOM PALMISANO: What's the contingency plan?	16	preparing and starting the early process of removing the
17	WILLIAM PARKER: Exactly.	17	highly radioactive internals of the reactor. So we're
18	TOM PALMISANO: Just to clarify, the	18	early in the process of the radiological decommissioning
19	assumption on spent fuel really comes from the	19	at that point, preparing to take those system, the
20	Department of Energy.	20	decontaminating, cut them out, cut them up into pieces,
21	WILLIAM PARKER: Understood.	21	prepare them for shipment offsite. As you then work
	TOM PALMISANO: Yeah, they're responsible.	22	through the sequence, the fourth bar from the left, the
22		23	fourth green bar we're in the large plant systems and
22 23	The dates are they going to perform for the industry in	23	
	The dates are they going to perform for the industry in 2024 and complete San Onofre by 2049? Those are the	24	large component removal. So we've done the planning.
23			large component removal. So we've done the planning.

Tra	Community Engagement Panel Public Meeting		
1	components. We're now continuing to work to remove the	1	Understand, it's an assumption. We'll talk about that
2	primary and auxiliary systems, typically the nuclear or	2	in the future. Followed on the last two yellow blocks
3	radiological systems in the plant during that time	3	on the lower right there are actually the demolition of
4	period. The shorter block we've largely at that point	4	the ISFSI and the license termination process for the
5	we're 2022 to 2024. At that point on this schedule we	5	ISFSI and all the fuel removed from the site. Then the
6	would envision having the radioactive systems removed	6	site restoration periods, that, as I said, is really the
7	from the buildings. We're now into decontaminating the	7	non radiological decommissioning. And as you can see,
8	remaining material of the buildings at that time for the	8	all this proceeds in parallel. The radiological
9	nuclear part of the plant or the radiological part of	9	decommissioning starts first. The the the first
10	the plant. Then the long green line, July of 2024 to	10	block is really transitioning, planning, which we're in.
11	December 2032, there is a couple activities.	11	The second block, June of 2015 to July of 2017, we're
12	Fundamentally we're completing removing the radiological	12	starting to dismantle some of the exterior buildings not
13	buildings and we're entering the license termination	13	directly associated with producing power, some of the
14	process. And the way the NRC rules, we're two years	14	makeup water systems, some of the storage buildings on
15	before the end I submit a license termination plan, and	15	the west side of I-5. Think about the north and south
16	that's a detailed plan that really documents the	16	end of the sites where we remove the non radiological
17	radiological cleanup, the surveys that have been done to	17	buildings. And then you get into what would be the
18	demonstrate we've achieved the NRC's criteria for	18	third and the fourth blocks. We're starting into some
19	radiological cleanup and allows them to come in to	19	greater non radiological building demolition, removing
20	independently review and sample to confirm that. And	20	structures down to a certain depth, and really the
21	that is a license amendment process with the typical	21	process of removing all the structures to turn the site
22	public notice and hearing opportunities, et cetera. So	22	back into a green field condition. So that's what the
23	the way the license is terminated is through a license	23	big picture looks like. This is what is now summarized
24	termination process. So that would complete the	24	in the PSDAR and the decommissioning cost estimate. And
25	radiological or license termination by 2032. Basically	25	this is really the first time we've showed this level of
	Page 32		Page 34
1	our 20-year plan, the end of 2032.	1	detail.
2	The center section is spent fuel. So if you	2	CHAIRMAN VICTOR: So let me see if there are
3	look at let's take the second bar from the left,	3	comments and question about this, mindful that there is
4	which is the long bar. This is July 2014 to June of	4	a lot of other stuff we want to look at. I asked you to
5	2019. This is the period during which we would be	5	talk about the PSDAR first, though, because this is in
6	selecting a vendor, which we're in the process of	6	some sense is the real strategic document and strategic
7	evaluating, deciding how to expand the independent	7	vision so it's of special importance here. Comments and
8	storage facility pad, depending on which vendor we	8	questions that people would like to raise. Ten Quinn.
9	select, and actually expanding the pad, fabricating and	9	TED QUINN: In the schedule that you have,
10	delivering the casks, and then offloading both fuel	10	at what point does the ocean pipes, piping, no longer
11	pools into the casks. Our plan is by June of 2019, I	11	required to carry water in it?
12	think end of 2019, to have the two fuel pools offloaded	12	TOM PALMISANO: That's a good question.
13	and all the fuel in dry fuel store casks on the pad at	13	We're actually engineering how to remove our dependance
14	San Onofre. So we've decided to do that early in the	14	on ocean pooling now. So in the planning phase, again,
15	sequence, and I appreciate some of the comments about	15	that's not major decommissioning. I have about 20 to 22
16	timing. You know, everything we've researched would	16	what are called effluent streams. I use saltwater
17	indicate moving fuel to dry fuel storage probably makes	17	cooling that continues to cool the fuel cool systems,
18	sense from a safety standpoint as opposed to continuing	18	for example. So I'm engineering a modification to put
19	at an extended wet storage period when we have a choice.	19	in an alternate cooling system that is truer an air
20	Then the long period really, the long bars are just	20	cooler so that I can remove that saltwater. And we've
21	storage. So all the fuel in the ISFSI we're down in	21	got a septic system for, you know, some of the office
22	storage, operating the facility, maintaining the	22	buildings. We're looking at how to eliminate the need
23	facility, surveilling the facility, aging management	23	for that. That is diluted and discharged. We've got
24	programs. And then that runs all the way out to 2049	24	sumps to collect rainwater so they're systematically
25	when the DOE is finished removing fuel from the site.	25	going through all the effluence. My estimate is we'll
	Page 33		Page 35

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	probably have most of them eliminated by early 2016. A	1	impact. So we're in the early discussions with the
2	few of the more challenging ones will go a little bit	2	Navy. Whatever we do has got to be to their
3	beyond that. That's a level of detail we haven't worked	3	satisfaction. We'll have that discussion with them, and
4	out yet. We've identified the 20 to 22 sources of	4	then from a cost estimate standpoint to be conservative
5	discharge. Now we're systematically seeing what it	5	today, until I have an agreement that's different, I'll
6	takes to eliminate them. And this is the kind of detail	6	estimate that I've gotta remove it all. So that's what
7	that will evolve over the next several years, you know.	7	the cost estimate's based on.
8	As we develop that detail, we can give you more precise	8	CHAIRMAN VICTOR: We should probably let you
9	answers.	9	go on to the environmental Garry Brown and then Gene.
10	CHAIRMAN VICTOR: Any other comments or	10	GARRY BROWN: I have a question on you
11	question?	11	said this is a living document.
12	WILLIAM PARKER: I assume that the red bar	12	TOM PALMISANO: Right. It's fluid.
13	to the far right is restoring the pads once the	13	GARRY BROWN: How fluid? I guess what if
14	TOM PALMISANO: Yeah. The combination of	14	down the road you find that a major cost component, a
15	the two yellow boxes and the red bar, that's once the	15	major thing like you have to take out the conduits is
16	ISFSI is demolished and the license terminated, that's	16	basically mandated? That radically changes virtually
17	the final site restoration where the ISFSI is.	17	everything.
18	WILLIAM PARKER: And at that point the	18	TOM PALMISANO: Sure. That would cause an
19	entire site is back to a green field	19	update.
20	TOM PALMISANO: The entire site is, yeah.	20	GARRY BROWN: And so the NRC and everybody
21	That is correct.	21	understands that issues like that may totally alter what
22	CHAIRMAN VICTOR: Are you going to talk more	22	you're submitting at this point
23	when we get to the cost estimate about what the Navy has	23	TOM PALMISANO: Absolutely.
24	actually asked for, because the cost estimate is based	24	GARRY BROWN: And it won't come back and
25	on a three-foot below grade removal, I think? And is	25	say, well, no, you have a deadline
	Page 36		Page 38
1	that what they've asked for in regards to a bore?	1	TOM PALMISANO: No. They expect us to keep
2	What's going on with the Navy?	2	it updated. They expect communication with them. And,
3	TOM PALMISANO: So let me give an update on	3	you know, a good example might be the discussion on
4	that. Actually, the cost estimate is based on a much	4	spent fuel storage. Let's say in three years I have a
5	more conservative assumption. The power plant itself is	5	different assumption that changes the timing with the
6	on an easement that was granted by the Department of the	6	Department of Energy. I will have to revise the radio
7	Navy that dates to the early 60s. An in it it's got a	7	fuel management plan, the cost estimate, PSDAR and
8	couple of sentences of relatively non specific language	8	resubmit all those.
9	that obligates us to remove all improvements made to the	9	GARRY BROWN: So nothing is cast in
10	property. And I'm probably not phrasing that exactly to	10	concrete.
11	the language, but we're obligated to remove all	11	TOM PALMISANO: Yeah. These are the initial
12	improvements or to a condition otherwise specified by	12	plans. When you talk a 20-year decommissioning or
13	the Navy, the landlord. So we've entered into the early	13	longer for spent fuel, everybody expects there may be
14	discussions to start to define what they will expect and	14	changes. Like I said, recent decommissioning plants
15	what is acceptable to them. Historically, commercial	15	might revise this four times in 10, 15 years when major
16	power reactors decommissioning in a country have never	16	assumptions change, major conditions.
17	excavated down 60 or 90 feet to get all the non	17	CHAIRMAN VICTOR: Gene.
18	radiological compacted material, base mat and pilings	18	GENE STONE: When do you submit your
19	out that you build under any facility, whether it's a	19	decommissioning plan to the PEC?
20	tall office building or a power plant. Typically they	20	TOM PALMISANO: You're talking about the
21	found environmentally it is smarter to excavate it down	21	rate filing for the access of decommissioning trust
22	to a certain level, meet the radiological	22	fund, Gene?
23	decontamination criteria, and after that, backfill the	23	GENE STONE: Right.
24	deeper structures and abandon them. From an	24	TOM PALMISANO: We intend Chris, you
25	environmental standpoint that has potentially less	25	
	Page 37		Page 39
	C Corneration (Seuse Court Deportare)		Degg: 12

1	CHRIS THOMPSON: Our intention is to file	1	Community Engagement Panel Public Meeti the generic impact and any other impacts small? If so,
2	the decommissioning cost estimate and other associated	2	we document that in our report. We provide the summary
3	documents in the next months, six weeks.	3	and the PSDAR to the NRC, and it's available for their
4	TOM PALMISANO: Right. Basically	4	inspection. So that's what the content is. The key
5	simultaneously with the NRC documents.	5	assumptions here, and we talked about this quite a bit
6	CHAIRMAN VICTOR: Let me just clarify that	6	in the workshop, but this is important so I just want to
7	Garry Brown's question, I think it's a living document	7	take a minute. So this one assumes that ocean conduits
8	that you update, but at the same time everybody knows	8	will not be removed. You'll see a different assumption
9	that there is an uncertainty in a multi decade	9	in a minute on a cost estimate. Dan?
0	engineering project. And so what you've been asked to	10	DAN STETSON: Thanks, Tom. A couple
.1	do in terms of costing this out is make a series of	11	questions with reference to the conduits. Our
2	plausible worse case assumptions, things that would cost	12	understanding is that's under the jurisdiction of the
3	money, like removing the conduits. And if it turns out	13	State Lands Commission.
4	that you don't remove the conduits. And in it turns out	14	TOM PALMISANO: State Lands Commission.
	-		
5 6	deal made or whatever, then that would lower the cost.	15	DAN STETSON: An estimate for the removal of the conduits is in the 400 million?
.6 7	But right now for the purposes of the costing, which we	16 17	
.7 8	will get to in a little bit, you're making a series of worse case decisions.		TOM PALMISANO: I when I talked to you
.8 .9		18 19	previously I had a high number. It's about a hundred million dollars for the conduits.
.9	TOM PALMISANO: And I'll point those assumptions out. Those are exactly the types of things	19 20	DAN STETSON: A hundred million dollars.
1		20	
1 2	that would cause us to revise the document.		What's the criteria does State Lands use for that? Do
∠ 3	CHAIRMAN VICTOR: Why don't we continue on	22 23	they do a survey of the environment to determine if
4	the environmental impact statement you left off at.		there is endangered species like hill grass? Is there
	TOM PALMISANO: So with that, again, and I	24	how long does that take for the public hearings? A
25	would urge everybody the panel members have seen Page 40	25	little on that process, if you would, please. Page 42
1	this. The public, download this from the website.	1	TOM PALMISANO: Sure. We went through 1
2	Please take a look at this. So the environmental impact	2	should baseline everybody. We are have already
3	·		
	evaluation. We discussed this pretty extensively at the		
	evaluation. We discussed this pretty extensively at the workshop before we gave you the full document. So I'm	3	partially decommissioned the unit one plant, unit one
4	workshop before we gave you the full document. So I'm	3 4	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As
4 5	workshop before we gave you the full document. So I'm going to step through and really summarize what you've	3 4 5	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove
4	workshop before we gave you the full document. So I'm going to step through and really summarize what you've already heard. The basis document, again, this	3 4 5 6	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove them? Do they stay? And we were able to discuss this
4 5 6 7	workshop before we gave you the full document. So I'm going to step through and really summarize what you've already heard. The basis document, again, this environmental impact evaluation is designed to satisfy	3 4 5 6 7	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove them? Do they stay? And we were able to discuss this with the State Lands Commission and reach agreement to
4 5 6 7 8	workshop before we gave you the full document. So I'm going to step through and really summarize what you've already heard. The basis document, again, this environmental impact evaluation is designed to satisfy the NRC requirements under NEPA. Separately we'll start	3 4 5 6 7 8	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove them? Do they stay? And we were able to discuss this with the State Lands Commission and reach agreement to leave them in place and abandon them. We're in the
4 5 6 7 8 9	workshop before we gave you the full document. So I'm going to step through and really summarize what you've already heard. The basis document, again, this environmental impact evaluation is designed to satisfy the NRC requirements under NEPA. Separately we'll start dealing with the California Environmental Quality Act,	3 4 5 7 8 9	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove them? Do they stay? And we were able to discuss this with the State Lands Commission and reach agreement to leave them in place and abandon them. We're in the process of completing that work. We've removed some
4 5 7 8 9	workshop before we gave you the full document. So I'm going to step through and really summarize what you've already heard. The basis document, again, this environmental impact evaluation is designed to satisfy the NRC requirements under NEPA. Separately we'll start dealing with the California Environmental Quality Act, and I'll touch on that briefly. That is really yet to	3 4 5 6 7 8 9 10	partially decommissioned the unit one plant, unit one reactor and all of the aboveground portion is gone. As part of that we face the conduit question. Do we remove them? Do they stay? And we were able to discuss this with the State Lands Commission and reach agreement to leave them in place and abandon them. We're in the process of completing that work. We've removed some vertical access risers and leave the horizontal portion.
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Transcript of Proceedings Community En

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1	CHAIRMAN VICTOR: Just tell us just for the	1	there is a much higher level of consciousness today
2	purpose of record how long	2	among the people of California on how important it is to
3	TOM PALMISANO: So the impression was about	3	protect the coast. And certainly I think people view it
4	how long that takes. So we start with the State Lands	4	as more of a resource. And I just came off of nine
5	Commission. They will enter the CEQA process, have to	5	years of trying to change the laws for how do we handle
6	do an environmental EIR, I think, impact report. And	6	tearing out the oil platforms and when those are
7	that process took about two years on unit one. Because	7	decommissioned. It was a number of those. But without
8	we've already done it for unit one, it may take a	8	getting into it now, there were the discussion was
9	shorter period of time for units two and three. The	9	the reefs and so don't take them out, but two and a half
10	other thing for unit one, we had to look at any	10	million dollars we spent trying to prove. And some
11	radiological contamination and ensure the NRC and State	11	structures were producing reefs, and the ones in the
12	Lands there was no residual radiological contamination.	12	shallower depth were not. It was decided that the oil
13	DAN STETSON: Underwater surrounding the	13	company wouldn't have to remove one of the structures.
14	conduits?	14	They have to bring in actuaries to determine how much
15	TOM PALMISANO: In the conduits.	15	money they're saving, and a percentage of that savings,
16	DAN STETSON: Oh, in the conduits.	16	like 60 to 70 percent has got to be paid to the state to
17			· · · ·
	TOM PALMISANO: In the conduits. Because	17	finance coastal restoration projects. So in your area,
18	there is discharge. Discharges. Radiological	18	just to kind of make the assumption, well, we were
19	discharges would go through the conduits. So it's a	19	successful then, we will be now. We can abandon it so
20	complicated discussion plan. We intend to enter that	20	we don't really have to do an environmental impact on
21	with the State Lands Comission for units two and three.	21	impacts of removing them, so, therefore, there is no
22	Those are activities yet to come.	22	negative impacts. I think it's naive. Just in the last
23	CHAIRMAN VICTOR: But units two and three	23	slide we were talking about Chairman Victor said, you
24	are heat transfer, not there's no radiological	24	know, this document you're working on today plans for
25	discharges.	25	worse case scenario, and you're not planning on a worse
	Page 44		Page 46
1	TOM PALMISANO: No there has been there	1	case scenario because you should be planning on taking
-		-	case seenano because you should be plaining on taking
2	has been radiological discharge through the units two	2	those out, because that was the commitment.
2	has been radiological discharge through the units two	2	those out, because that was the commitment.
2 3	has been radiological discharge through the units two and three conduits as well.	2 3	those out, because that was the commitment. TOM PALMISANO: I am, and the cost go
2 3 4	has been radiological discharge through the units two and three conduits as well. CHAIRMAN VICTOR: I know this issue came up	2 3 4	those out, because that was the commitment. TOM PALMISANO: I am, and the cost go ahead.
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11a	inscript of Troceculings		Community Engagement I and I uble Weeting
1	compliance questions related to Lands Commission and	1	differences in these assumptions then were unit one
2	other environmental assessments. The environmental	2	assumptions?
3	assessment that we're looking at tonight is the	3	TOM PALMISANO: I wasn't involved in the
4	environmental assessment required by the NRC as part of	4	unit one decommissioning, Ted. I think fundamentally
5	the larger PSDAR filing and so on. So this is not the	5	they're the same, but I would have to check. Again,
6	only environmental assessment that will be relevant to	6	that was done, you know, initially a number of years
7	this. There will be a variety of others. I think	7	ago. So we'll take an action to compare those.
8	there's a slide later that will talk about this. So let	8	TED QUINN: Okay.
9	me say that I think we as the CEP need to come back and	9	TOM PALMISANO: Yes, Pat.
10	look at this question and see if it's something useful	10	PAT BATES: Are these environmental
11	we can do in the CEP with Edison and with the key	11	evaluations the same process? Are they vulnerable to
12	stakeholders and the various communities, including	12	legal challenges by the public? Are they certified by
13	several members of this panel, and provide some input	13	any
14	here. My understanding is that it's not material to	14	TOM PALMISANO: This is done under the NRC's
15	what you are filing with the NRC right now, but it is of	15	NEPA process, so the NRC already has the generic
16	course material to the Lands Commission and the other	16	environmental impact evaluation that has been subject to
17	state environmental departments.	17	public scrutiny, and I basically compare our plans to
18	CHRIS THOMPSON: A three-second point. We	18	that. So whether this could be challenged, the NRC does
19	would like your feedback and input on. That is the CEQA	19	not have a hearing process for this. They certainly
20	process is obviously a public process and there is	20	will take comments. The CEQA process I think is going
21	opportunity for public involvement.	21	to be the more publically transparent process initially.
22	TOM PALMISANO: So there is a set of	22	The NRC's process will pick up with an actual
23	assumptions here, you see my note. These are different	23	environment assessment as part of license termination
24	than some of the decommissioning costs. In the	24	when we're done.
25	decommissioning cost estimate I'm assuming they're	25	PAT BATES: Okay.
	Page 48		Page 50
1	removed. So we're budgeting, we're planning the money	1	TOM PALMISANO: You've seen this before, a
2	to remove them. An assumption here is the State Lands	2	summary with all those assumptions and the analysis we
3	Commission will conclude in their process it is	3	did. All of the impacts are judged to be small, which
4	advantageous to leave them. If that doesn't if that	4	basically says that we are covered by the generic
5	doesn't happen, we will have to remove them. We'll	5	assessment and our site-specific assessment. So the
б	update the environmental impact assessment for the NRC.	6	next steps, so this work is designed to comply with the
7	So this is not a final decision, if you will. It's a	7	NEPA Act. We will also adhere as to the California
8	planning basis. The final decisions will be made really	8	Environmental Quality Act, which we have not started
9	under the CEQA process.	9	into yet. Things like the State Lands Commission
10	CHAIRMAN VICTOR: We need to let you	10	looking at the disposition of the conduits will be
11	continue on, Tom, because we still have the PEC and much	11	subject to the CEQA process and our environmental impact
12	of the environment	12	report. So we have quite a bit that will start to
13	TOM PALMISANO: Well, I'll just hit these	13	happen in the future on environmental reviews with the
14	quickly. No blasting during decommission. Some plants	14	state process. And you can see a summary of the just
15	use explosive to take major concrete buildings down. We	15	a short list of the agencies CEQA that are involved
16	will not. It's too sensitive of an area. Maintain	16	starting with the NRC, Department of the Navy on down
17	existing land use zoning designations. Limit	17	through State Lands, Coastal Commission, State Regional
			Weter Desident starts
18	dewatering. The site is dewatered in a considerable	18	Water Board, et cetera.
18 19	dewatering. The site is dewatered in a considerable radius during construction. We will much more severally	18 19	CHAIRMAN VICTOR: Let me see if there are
	-		
19	radius during construction. We will much more severally	19	CHAIRMAN VICTOR: Let me see if there are other questions. Let me just quickly ask on the CEQA, California Environmental Quality Act, presumably that
19 20	radius during construction. We will much more severally limit that during deconstruction to minimize the environmental impact. We know there is no drinking wells, and you can see the rest. Limit excavation to	19 20	CHAIRMAN VICTOR: Let me see if there are other questions. Let me just quickly ask on the CEQA, California Environmental Quality Act, presumably that process needs to have run its course before you begin
19 20 21	radius during construction. We will much more severally limit that during deconstruction to minimize the environmental impact. We know there is no drinking	19 20 21	CHAIRMAN VICTOR: Let me see if there are other questions. Let me just quickly ask on the CEQA, California Environmental Quality Act, presumably that
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TED QUINN: Very quickly, Tom. Is there any

Page 49

25

Transcript of Proceedings

Page 51

²⁵ to begin the CEQA process, and what's your expectations

Transcript of Proceedings **Community Engagement Panel Public Meeting** 1 for how that's going to unfold? Onofre and San Onofre communities, because we're moving 2 TOM PALMISANO: We have scheduled several I 2 ahead, but NRC is looking at us and asking what's 3 3 think in the 4th quarter at the latest we'll start the working, what's not working. Because basically they 4 dialog with the State Lands about the conduit. I think don't have a strategy for the overall decommissioning 4 5 that will be the early topic that starts the CEQA 5 process and the regulations around it. So I think it would be very helpful to get some input in time on 6 process. 6 7 7 CHAIRMAN VICTOR: I think it would be very whether the GEIS is actually kind of a good way of 8 helpful if there is a role the CEP can playing. There 8 thinking about the environment. are lots of other people that are enthusiastic about 9 TOM PALMISANO: Sure. Might I suggest, and 9 playing roles, I'm sure. If there is a role the CEP can 10 when the NRC schedules the public meeting on the PSDAR, 10 that is actually -- decommission is under the Federal 11 play, it would be helpful for us with the CEP to begin 11 to make a list of the elements of this where there would 12 State Materials and Environmental division of the NRC, 12 13 be useful public input so that we've got an 13 so we've got the right group who will be able to talk to 14 us. 14 environmental review that's not only compliant with the 15 15 law, but also is kind of strategic as to how the CHAIRMAN VICTOR: Great. 16 decommissioning process might affect the environment, TOM PALMISANO: So decommissioning cost 16 17 estimate. Similar format. You see the basis. I guess 17 things --18 18 TOM PALMISANO: We can certainly take an my thumb is faster than the slide. 19 GENE STONE: Tom, while you're there can I 19 action as we firm up our schedule to start the discussions with State Lands or the Costal Commissions, 20 ask you a question? 2.0 21 21 the CEQA process, to brief you on the schedule and see TOM PALMISANO: Certainly, please. 22 22 what level, what timing works for the CEP. GENE STONE: The environmental impact 23 23 CHAIRMAN VICTOR: Let's make sure as the evaluation is very troubling so I would like many of the 24 24 follow-on to this meeting that we report back to the CEP members to look closer at it. We talked a bit about 25 25 it last night. But it seems very convenient that a members that weren't here tonight. That we give them a Page 52 Page 54 1 little bit of update as to this discussion. Dan --1 majority of the environmental effects are small, which I 2 DAN STETSON: Just that, Tom, it would be 2 question the use of the word small in the first place. 3 3 great to know which of these agencies are responsible I think I've done it one other time. But I think it's 4 for what activities. 4 something we need to comment on, as David said, by the 5 TOM PALMISANO: And we can do that. As we 5 public and more strictly by the CEP members. 6 6 start the dialogue with the agencies, you know, the CHAIRMAN VICTOR: Thank you. I guess, as 7 7 conduit, State Lands, you know, Onshore Coastal Quinn would say, it depends what you mean by the word 8 Commission, you know, California Coastal Commission for 8 small. But I -- actually, I wasn't surprise that the 9 9 the ISFSI expansion. So, yeah, we'll be able to environmental impacts of an existing site that have 10 identify which agencies are principally interested in 10 already been massively engineered are small. You know, 11 I'm upset by the comparison of the noise level of the 11 what topic. 12 DAN STETSON: Great. Thank you. 12 noise of the surf, because somehow I think the removing 13 TOM PALMISANO: Okay. I'm going to move on. 13 of a piece of concrete is different than listening to 14 Just to close it, we recognize this is a very important the surf, but that's maybe a matter of cosmetics. But I 14 topic. That's why we want to bring these assumptions 15 guess I wasn't surprised just the first blush that it 15 16 and conclusions back in and make sure you know where we 16 seemed small because we're working with a site that's 17 17 are in the process and what you have to come. So we already massively disturbed, and the key thing is for 18 appreciate the dialogue. 18 Edison, as they've done, to commit not to go beyond the 19 CHAIRMAN VICTOR: So I would like -- during 19 site. So I -- I guess I was not surprised. 20 TOM PALMISANO: And that is the context. If 20 our workshop there was discussions of general 21 environmental impact statements, and I understand 21 you look at all the NRC as applied, NEPA notes it starts 22 with the decision to build the plant and the permitting 2.2 procedurally why you compare yourself to the GEIS, as it's known. But it would be helpful when we look back 23 to built the plant at a federal level, and the 23 24 24 on this process for us to think about whether the GEIS environmental assessments there were done there and kept 25 is working or not. Not because it affects us and San up to date through plant operation, and you assess are 25 Page 53 Page 55

Trar	nscript of Proceedings		Community Engagement Panel Public Meetin
1	there any plant decommissioning activities going to	1	WILLIAM PARKER: What assumptions do you
2	essentially take you beyond the bounds of what's being	2	make about the availability of low level radiological
3	already assessed. And that's where you judge small,	3	waste disposal?
4	moderate or large. So, again, the NRC people can	4	TOM PALMISANO: Well, they're embedded in a
5	probably explain how they've designed that process	5	couple of these. Really look at the bottom line, low
6	better than I can.	6	level waste burial cost escalation as we look at a D&D
7	CHAIRMAN VICTOR: Okay. I know there is	7	period.
8	going to be questions about this process so please do	8	WILLIAM PARKER: And my question really
9	TOM PALMISANO: Yeah. So decommissioning	9	relates to the reliability of the disposal sites being
10	cost estimate, the structure is pretty well specified by	10	available. And WIPP, for example, is out of service for
11	the NRC. We've discussed the decommissioning plan,	11	an indefinite period.
12	we've talked about assurance of adequate funding,	12	TOM PALMISANO: Well, WIPP is one of your
13	provide the total cost by period, the periods that I	13	WILLIAM PARKER: No, WIPP is not
14	outlined on that bar chart is what it's talking about.	14	CHAIRMAN VICTOR: You are very dependent on
15	Summarizes the cost of services, undistributed costs and	15	Clive, Utah.
16	some accounting terms in terms of how costs are	16	TOM PALMISANO: Yeah, Clive Utah, and there
17	accounted for. But really then outlines the cost for	17	is a facility in Texas. So I have two facilities I can
18	license termination of the radiological decommissioning,	18	ship my Class A, B and C waste to. We've already
19	spent fuel management through the expected time period	19	discussed with them we actually already have a life
20	and then final site restoration. This slide is	20	of (Inaudible) contract with Clive, Utah. So I've got
21	mislabeled, and I apologize. This should read	21	some certainty on availability and cost. Now, that is
22	decommissioning cost estimate assumptions. So we	22	absent a change in the political environment or a
23	duplicated a slide. We didn't catch that, so I	23	technical issue that closes the site, like occurred at
24	apologize.	24	WIPP. WIPP is a government it's a DOE site. I'm not
25	CHAIRMAN VICTOR: That's never happened to	25	authorized to ship any waste there; they're not
	Page 56		Page 58
1	anybody else, duplicating slides.	1	authorized to take it. So the sites where we are
2	TOM PALMISANO: I know. My typing skills, I	2	planning on shipping waste, we've talked to both of
3	guess. So these estimates and this is where you'll see	3	them. We have availability, again, short of something
4	some differences. So this is a conservative estimate.	4	totally unexpected. If that were to occur, I've gotta
5	So, for example, I assume we're going to remove the	5	stop, change the plan, update my PSDAR.
6	ocean conduits. Until we have an agreement with State	6	WILLIAM PARKER: Okay. So this plan assumes
7	Lands that would tell me differently, I need to estimate	7	that those sites will meet their contractual
8	that cost. I assume all sub structures are removed.	8	obligations.
9	Until we reach resolution with the Navy, it's only	9	TOM PALMISANO: It assumes the sites and is
10	prudent for me to estimate that cost. And should that	10	also based on the contractual talks we've had with them
11	change, then we'll change the cost estimate, which would	11	to give us some guarantee of that. Yes, sir.
	trigger a PSDAR update, for example. So you can see the	12	TED QUINN: Are the reactive vessels greater
13	key assumptions are the spent fuel pools are empty by	13	than Class C or Class C, and where are they going?
	June of 2019, the DOE performance start date of an	14	TOM PALMISANO: We haven't determined where
	industry level at 2024, substructures removal. That's a	15	the reactor vessels are going. So the reactor vessels
	conservative estimate. That will remove everything	16	themselves, the internals would be greater than Class C.
	that's been installed on the site during construction.	17	There is some internal components highly radioactive.
	The duration of the decon and dismantlement ending is 10	18	We will cut up, remove them. They will be stored in dry
19	years. The ocean conduits are removed and start of	19	storage casks, not fuel casks, but similar, that stores
		20	greater than Class C. After that we will likely cut up
	decon and dismantlement 2016. That is really the start		
	decon and dismantlement 2016. That is really the start of the second phase. That isn't necessarily a physical	21	the reactor vessels because of their size and ship them
21 22	of the second phase. That isn't necessarily a physical activity. But those are the assumption behind the cost	21 22	for disposal. I was involved in decommissioning a small
21 22 23	of the second phase. That isn't necessarily a physical activity. But those are the assumption behind the cost estimate that result in it being a 4.4 billion dollar		for disposal. I was involved in decommissioning a small plant like Humboldt Bay in Michigan. We shipped that
21 22 23 24	of the second phase. That isn't necessarily a physical activity. But those are the assumption behind the cost	22	for disposal. I was involved in decommissioning a small plant like Humboldt Bay in Michigan. We shipped that reactor vessel to South Carolina in about 2003. Smaller
21 22 23 24	of the second phase. That isn't necessarily a physical activity. But those are the assumption behind the cost estimate that result in it being a 4.4 billion dollar	22 23	for disposal. I was involved in decommissioning a small plant like Humboldt Bay in Michigan. We shipped that

Transcript of Proceedings			Community Engagement Panel Public Meeting
1	unit one partial decommission that we'll deal with as	1	TOM PALMISANO: Probably the best answer,
2	well. So there are disposal options once we remove the	2	and back to the assumptions page, overall there is a 25
3	greater than Class C highly radioactive waste from the	3	percent contingency. So if we look at a four billion
4	reactor vessels.	4	dollar estimate, 25 percent of that is contingency.
5	So anyway. So these are the key assumptions	5	Now, we expect that contingency to go down. We're at
6	for the decommissioning cost estimate. We have been	6	the point, you know, we have an initial plan, and it's a
7	conservative where there is some doubt or we don't yet	7	reasonable plan, but it's not a detailed plan yet. And
8	have clarity with the Navy or the State Lands	8	that detail will come over the next couple of years. So
9	Commission. And then as we get that clarity over the	9	as we select a decommissioning contractor, they build
10	next several years, we will revise this list. The key	10	more detailed estimates, and I expect we will slowly
11	thing here is we want to make sure we have a	11	reduce that contingency as I have better information.
12	conservative estimate so we can ensure we have adequate	12	Typically the way you would manage a contingency.
13	funding. This pie chart shows you the breakdown. So	13	CHAIRMAN VICTOR: Why don't we just on these
14	you see at the top the 4.4 billion dollars, that's in	14	issues defer until we hear from Chris Thompson, because
15	2014 dollars as if I can do it all this year. We say a	15	some of this relates to the purpose of this as I
16	hundred percent numbers because there are actually	16	understand it is to make sure there is enough money in
17	several co-owners of San Onofre so I'm representing the	17	the fund to satisfy NRC's requirements. Then there is
18	hundred percent value. And you see the breakdown, 2.1	18	variety of other issues that will arise about the
19	billion and change is license termination, radiological	19	oversight of the trust fund as actual receipts for
20	decommissioning. 1.276 billion is spent fuel management	20	buying stuff come in. Some of those are going to be big
21	all through that 2052 time frame. And 1.023 billion is	21	receipts.
22	the site restoration principally at the end of the 20	22	TOM PALMISANO: So at this point we had a
23	years and sum dollars at the end of the ISFSI removal	23	question previously about are we fully funded, and Chris
24	and demolition. Some notes under there they really just	24	is going to pick up here and cover that.
25	say, you know, explain a little more about what that is.	25	CHRIS THOMPSON: Thank you, Tom. So the
	Page 60		Page 62
1	We really already covered that in the end. Turn it over	1	table here, and there's a couple of different values, as
2	to Chris here in a minute. Yes, sir.	2	Tom said. We are one of the co-owners, and for the
3	WILLIAM PARKER: I remember at our last	3	purposes of decommissioning about 75 percent. The green
4	meeting the details of the cost estimate are proprietary	4	bar there on the left shows the total cost estimate 4.4
5	so all we see are the output estimates from your	5	billion dollars in 2014 dollars, as Tom mentioned, as if
6	contractor.	6	we could execute the entire project this year. And to
7	TOM PALMISANO: Yeah, I think they're saying	7	give you an idea of the fund adequacy as it relates to
8	the model is proprietary. You're seeing the output,	8	SCE are the following three gold bars. So SCE's share
9	though, correct.	9	of the cost estimate is 3.3 billion dollars in 2014
10	WILLIAM PARKER: So we're not in a position	10	dollars. The next bar shows escalating those costs to
11	to raise questions about the details of the cost	11	the year of expenditure. So there is an escalation rate
12	estimate. It's proprietary.	12	that we use that's provided by IHS Global Insight, their
13	TOM PALMISANO: Yeah. The details of their	13	weighted average of labor and non-labor.
14	model, how they take, you know, X amount of concrete, X	14	CHAIRMAN VICTOR: Which I looked at and
15	amount of reinforcement and roll that into, you know	15	seems completely reasonable.
16	removal cost and hours, etcetera, I believe that's the	16	CHRIS THOMPSON: So if you escalate those
17	proprietary part.	17	into the year of expenditure, you arrive at a 4.1
18	WILLIAM PARKER: Having looked at other	18	billion dollar SCE share. Then we convert that to the
19	large construction projects, contingencies and can build	19	present value of 4.1 billion dollars, and I can explain
20	upon contingencies, and as much as 25 percent of the	20	present value if you want me to. The present value of
21	cost estimate could be in the form of contingencies and	21	the 4.1 billion of expenditure is 2.9 billion now. The
22	allowances for unknowns. Do you have any estimate what	22	liquidation value of our trust funds, SCE's trust funds,
23	fraction of this 4.2 billion is the result of a specific	23	is 3.1 billion dollars. We have 3.4, but they're
24	cost projection and what fraction are the contingencies	24	subject to taxation, so if we liquidate them we would
25	and so on that tend to compile in these cost estimates?	25	5 1
	Page 61		Page 63

110	nscript of Proceedings		Community Engagement Panel Public Meetin
1	present value, the jump to present value. So if I need	1	we can't plan on. And the question is is there a point
2	to spend a dollar and this is going to be simplistic.	2	where the shareholders and the decommissioning fund
3	If I need to spend a dollar in 2016, what do I need to	3	stops and the maintenance obligation transfers over to
4	have now in order to spend that dollar? If I'm going to	4	anybody else? Is this going to be a mount Helen that
5	just lock if I have a dollar in my pocket and I just	5	will continue to pay for that maintenance cost? Will it
6	lock it up in a safe and I have zero rate of return,	6	diminish over time? I guess is there an end date in
7	then the discount rate that moved from 4.1 to 2.9, as an	7	your calculations where decommission is over, we just
8	example, would be zero. The discount rate that is	8	have a pad that has the waste on it and, you know, it's
9	applied to the year of expenditure cost is the rate of	9	somebody else's obligation? How does that work when
10	return of our the projected rate of return of our	10	you're contemplating these cost estimates?
11	trust, 3.37 percent after tax. If I was going to invest	11	CHRIS THOMPSON: So as Tom mention, there is
12	if I needed that dollar in 2016 and I was going to	12	25 percent contingency. We are confidence that we are
13	invest in a product that yielded three percent, then I	13	not going to use that entire 25 percent contingency so
14	would need roughly 94 cent. The present value of a 2016	14	there will be some funds remaining at the end of the
15	dollar is 94 cent. So that's kind of and the	15	project when it goes (Inaudible) basically for the deal
16	discount rate would be 3 percent.	16	to pick up the fuel. Additionally there is another
17	CHAIRMAN VICTOR: So you're showing us SCE's	17	revenue stream, which is reimbursement from the DOE for
18	part of this?	18	their failure to perform their contractual obligation.
19	CHRIS THOMPSON: Correct.	19	TIM BROWN: So the DOE is on the hook for
20	CHAIRMAN VICTOR: There are other players.	20	their failure to perform, and they would fund the
21	When you add up I want to say two things. First of	21	maintenance of the site?
22	all, when you add up the other players' contributions,	22	CHRIS THOMPSON: Just the they are on the
23	they add up to sufficient funds? That's a question.	23	hook for our need to store spent fuel on the site.
24	And second is a statement, which is there are a lots of	24	TIM BROWN: Yes. Okay. Interesting. Okay.
25	other organizations that are providing detailed	25	GENE STONE: Is that a hundred percent or 10
	Page 64		Page 66
1	oversight of the trust fund, the investment strategy,	1	percent?
2	the expenditure strategy.	2	TIM BROWN: Is that a full obligation or is
3	CHRIS THOMPSON: Correct.	3	it partial? Do you still have to pony up certain
4	CHAIRMAN VICTOR: The release of the funds,	4	elements of it or
5	including the POC, as Gene Stone mentioned earlier. So	5	CHRIS THOMPSON: It's subject it's a
б	we made a decision early on. We had a couple comments	6	court settlement. We have sued them and we have
7	suggesting we revisit that, but no I've heard	7	received a judgement, so I can't forecast what we
8	basically nothing from the CEP that we revisit that, and	8	sued we sued them for a period of time.
9	we would not be qualified to revisit this so we're not	9	CHAIRMAN VICTOR: So the utilities
10	going to engage in that kind of detailed financial	10	understandably we're not thrilled about paying money to
11	oversight of this. But since you raised the question,	11	the DOE to do something that the DOE is no sign of being
12	it would be helpful for all of us to know that there is	12	able to do. I think when we have some clarity about the
13	enough money sitting someplace to cover the costs as	13	outcome of that, I think it will be helpful maybe
14	they've been estimated.	14	it's going to be early next year; probably it's going to
÷ +			
	CHRIS THOMPSON: Do you want me to	15	be later it would be helpful for the CEP to come back
15	•	15 16	and have a discussion or put together a memo or
15 16	CHRIS THOMPSON: Do you want me to		_
15 16 17	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah.	16	and have a discussion or put together a memo or
15 16 17 18	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer.	16 17	and have a discussion or put together a memo or something like that that will give people confidence
15 16 17 18 19	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer. CHAIRMAN VICTOR: Okay. That's awesome.	16 17 18	and have a discussion or put together a memo or something like that that will give people confidence that the long-term cost of securing the site and maintaining it and including contingencies for very
15 16 17 18 19 20	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer. CHAIRMAN VICTOR: Okay. That's awesome. It's not often you ask a question that has a binary answer.	16 17 18 19	and have a discussion or put together a memo or something like that that will give people confidence that the long-term cost of securing the site and maintaining it and including contingencies for very
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15 16 17 18 19 20 21 22	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer. CHAIRMAN VICTOR: Okay. That's awesome. It's not often you ask a question that has a binary answer. TIM BROWN: The question I have is it's become very clear to all that there may not be a finite	16 17 18 19 20 21	and have a discussion or put together a memo or something like that that will give people confidence that the long-term cost of securing the site and maintaining it and including contingencies for very long-term task management and so on, which we have been talking about in resent weeks, that that's all there and is set and is linked to a CP fund or something like that
15 16 17 18 19 20 21 22 23 24	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer. CHAIRMAN VICTOR: Okay. That's awesome. It's not often you ask a question that has a binary answer. TIM BROWN: The question I have is it's become very clear to all that there may not be a finite end date that we can all count on, and without that	16 17 18 19 20 21 22	and have a discussion or put together a memo or something like that that will give people confidence that the long-term cost of securing the site and maintaining it and including contingencies for very long-term task management and so on, which we have been talking about in resent weeks, that that's all there and is set and is linked to a CP fund or something like that has been charged up with money from the DOE or from the
15 16 17 18 19 20 21 22 23	CHRIS THOMPSON: Do you want me to CHAIRMAN VICTOR: Yeah. CHRIS THOMPSON: So, yes, is the answer. CHAIRMAN VICTOR: Okay. That's awesome. It's not often you ask a question that has a binary answer. TIM BROWN: The question I have is it's become very clear to all that there may not be a finite	16 17 18 19 20 21 22 23	and have a discussion or put together a memo or something like that that will give people confidence that the long-term cost of securing the site and maintaining it and including contingencies for very long-term task management and so on, which we have been talking about in resent weeks, that that's all there and is set and is linked to a CP fund or something like that

1	nscript of Proceedings plan when DOE doesn't do what we expect them not to do.	1	Community Engagement Panel Public Meetin of contractors that tear down nuclear power plants. I
2	Other comments? I'm sorry. I thought Bill Parker	2	mean, it's probably a very small universe of people, but
3	wanted the floor.	3	you have a lot of talent still there working at the
4	WILLIAM PARKER: It's a small issue. You	4	plant and a lot of veterans working at the plant. Not
5	mentioned that you're assuming about a three and a half	5	only veteran workers, but actually veterans. So I'd
6	percent discount rate.	6	like to keep those people in mind, if possible, so that
7	CHRIS THOMPSON: 3.75.	7	the impact to the local economy is probably spread out
, 8	WILLIAM PARKER: That sounds low.	8	over a period of years versus bringing in an outside
9	CHRIS THOMPSON: That's after tax. So the	9	contractor who brings in outside workers, they
.0	weighted average of our equity and fixed income.	10	decommission and then they're gone.
L1	WILLIAM PARKER: Oh, that's right. Your tax	11	TOM PALMISANO: Let me make a couple
12		12	comments. We appreciate that. Quite frankly, one of
13	 CHRIS THOMPSON: Yeah.	13	
			the things that we have spent a lot of time on is
.4	CHAIRMAN VICTOR: We're probably not gonna	14	helping our workers, because we have reduced from 1500
15	give you investment advice, Bill. Gene, investment	15	people in June 2013 to about 460. And there are more
-6	advice strategy?	16	reductions over the next several years as the work
.7	GENE STONE: I think it is prudent to tell	17	legitimately ramps down for the Southern California
18	the public that when the decommissioning funds run out,	18	Edison team. You know, it's been proper storage ship of
19	it's the rate payer that sums up, it's not the citizens.	19	the funds and making sure we're spending the money we
20	CHAIRMAN VICTOR: And the funds that are	20	need to spend staffing the positions we need to staff.
21	left over get returned to the rate payer. I think it's	21	So we're very sensitive, and we've helped a lot of our
22	a two-way road. We have all of us have a common	22	worker, some of who want to stay in the nuclear industry
23	interest in this being done safely, securely and also as	23	and moved to other utilities. A number wanted to stay
24	efficiently as possible.	24	with Southern California Edison and moved to other
25	CHRIS THOMPSON: And that is obviously one	25	positions in the company, our transmission and
	Page 68		Page 70
1	of our principles here, the wise storage ship of the	1	distribution department, some who are eligible to retire
2	funds, and they are rate payer funds. You're both	2	and chose to retire. So we've been pretty successful
3	right. But to give some context, since the inception of	3	helping the workers. I can't tell you that they all
4	trust funds as authorized by the PEC in 1988, the rate	4	stayed in the area, but, you know, we've always told
5	payers have contribute 1.05 billion. The remaining 2.31	5	them they need to do what's best for them and their
6	billion has been appreciation of assets. So I don't	6	family, and we will continue. With respect to the
7	want to leave you with the impression that the rate	7	future work force, I talk about bringing in a
8	payers contributed 3.4 billion. There has been some		
0		8	decommissioning contractor. This is the (Inaudible),
o 9	wise storage ship of those funds over the years.	8 9	the Chicago Visionaries, the big contractors who know
9 L0	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all	9 10	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big
9 10	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh,	9 10 11	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of
9 10 11	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern.	9 10 11 12	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the
	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One	9 10 11	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte
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9 10 11 12 13 14	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One thing I'm here as a representative of my constituents in Oceanside of what's going on in this panel. A lot of the people were impacted by the shutdown, and a lot of	9 10 11 12 13 14	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte us for years, whether they're labors or electricians,
9 L0 L1 L2 L3 L4 L5 L6	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One thing I'm here as a representative of my constituents in Oceanside of what's going on in this panel. A lot of	9 10 11 12 13 14 15	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte us for years, whether they're labors or electricians, pipefitters, will be brought in by the contractor to do
9 L0 L1 L2 L3 L4 L5 L6 L7	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One thing I'm here as a representative of my constituents in Oceanside of what's going on in this panel. A lot of the people were impacted by the shutdown, and a lot of	9 10 11 12 13 14 15 16	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte us for years, whether they're labors or electricians, pipefitters, will be brought in by the contractor to do the physical work. So the bulk of the jobs will be
9 L0 L1 L2 L3 L4 L5 L6 L7 L8	 wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One thing I'm here as a representative of my constituents in Oceanside of what's going on in this panel. A lot of the people were impacted by the shutdown, and a lot of the workers that worked in San Onofre live within the 	9 10 11 12 13 14 15 16 17	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte us for years, whether they're labors or electricians, pipefitters, will be brought in by the contractor to do the physical work. So the bulk of the jobs will be local, and the bulk of the money on the payroll will be
9 L0 L1 L2 L3 L4 L5 L6 L7 L8 L9	wise storage ship of those funds over the years. CHAIRMAN VICTOR: Maybe just don't put all the money in Snap Chat stock. Do we have anymore oh, sorry. Jerry Kern. JERRY KERN: Thank you, Mr. Chairman. One thing I'm here as a representative of my constituents in Oceanside of what's going on in this panel. A lot of the people were impacted by the shutdown, and a lot of the workers that worked in San Onofre live within the surrounding area. I just want to make sure that, you	9 10 11 12 13 14 15 16 17 18	the Chicago Visionaries, the big contractors who know how to either build big facilities or take big facilities apart. But that's a small cosway of management and supervisory people. The bulk of the workers would be local trades, people who have supporte us for years, whether they're labors or electricians, pipefitters, will be brought in by the contractor to do the physical work. So the bulk of the jobs will be local, and the bulk of the money on the payroll will be local.
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Tra	nscript of Proceedings		Community Engagement Panel Public Meetin
1	with your help and others. Thank you, very much for	1	that. Did you want to make further comment
2	that comment.	2	CHRIS THOMPSON: Just to and this
3	TIM BROWN: I would concur with Gerry on	3	partially I think speaks to Supervisor Bates' question.
4	that. Our town has also been hit particularly hard by	4	The trust committee is overseen the PUC that
5	the closure of the plant. We've had a lot of folks who	5	authorized establishment of the trust is overseen by a
6	have had to leave town and are no longer living there.	6	member body, two of whom are internal to Edison, three
7	So it would be of interest that if you look at our local	7	external. They're basic responsibility as mentioned
8	work force to	8	there is overseeing the management and the trust,
9	TOM PALMISANO: Absolutely. When we deal	9	approving the asset allocation. We have a mix of fixed
10	with contractors, we make it pretty clear our	10	income and equities as you saw, as I described. Their
11	expectations there is a lot of talent locally.	11	returns have been fairly good historically. We're in
12	PAT BATES: I don't know if I'm the only	12	the process of de-risking the portfolio since we're
13	one, but I didn't have the cost slide in my report from	13	about to start incurring expenditures, hiring investment
14	the presentation, but this is a significant issue to the	14	advisors. There is a number of firms who place the
15	public so I'm assuming that would be on the website.	15	investments for us. And then there is regulatory
16	And then, number two, will you be keeping us up to date	16	oversight of the decommissioning trust both by the NRC
17	on how the expenditures they are keeping track with the	17	and by the PUC. As Tom mentioned, the NRC oversees the
18	budget you've set?	18	radiological decommissioning and the spent fuel
19	CHRIS THOMPSON: We will. And Tom helpfully	19	management largely from a fund adequacy standpoint.
20	handed off the clicker, which will speak a little bit to	20	They want to make sure we have enough money to do the
21	you question, which is the manner in which the trust	21	work. The breath and depth of the PUC oversight is much
22	funds are overseen but also the manner in which the	22	greater. The PUC regulates all three elements of the
23	expenditures are overseen. I think that's to your	23	two that the NRC does plus site restoration as well as
24	question.	24	their authorization is required for disbursements from
25	PAT BATES: I just think there should be a	25	the trust. They then have authority over the manner in
	Page 72		Page 74
1	regular report out in terms of where we are, the time	1	which the funds are expended, and on a look-back basis a
2	line and the funds available (Inaudible.)	2	reasonableness review of whether or not the expenditures
3	CHAIRMAN VICTOR: Okay. And I think we	3	were reasonable to the cost estimate.
4	should somehow assemble the work of the trust committee	4	CHAIRMAN VICTOR: It is out of the ordinary
5	and some of the regulatory oversight into something that	5	for management of a large trust with a series of but
6	we can digest. We need to move on. Do you have other	6	I do agree Pat Bates' comment will be helpful for us
7	slides?	7	periodically in plain English to be able to understand.
8	CHRIS THOMPSON: I can explain this or we	8	Can I just say that if you're going to include the
9	can move on. It's up to you.	9	slide, as I think would be correct, in the public record
10	VAL MACEDO: Real quick. I just want to	10	of this meeting that showed the different estimates,
11	also mention that during the outages SCE took a big step	11	that it would be helpful to have also a bar for the non
12	and made sure that outside people that come to work at	12	SCE portions for the estimate, the non SCE portions,
13	San Onofre I'm not sure if you guys were aware of	13	because otherwise the public record gets skewed by only
14	this, but at the level of the power plant they seek	14	having the SCE portion. What the public cares about at
15	people that had local they seek the local residents	15	the end of the day is that there is enough money, not
16	prior to anybody going out. And there was a document	16	that the money has a certain flag on it.
17	provided that coincided with hiring all procedures for	17	CHRIS THOMPSON: And that was a way to add
18	people to go work out there. And also during this	18	to the slide back to the online version.
19	period that we're facing now, the contractors that have	19	CHAIRMAN VICTOR: Can I just remind
20	been on site now getting ready for this process have	20	everybody since we're going to move on, unless there are
21	been directed to hire local people, and that's been	21	other slides, that the 5th of September is the deadline
22	fantastic for a lot of the Oceanside residents and other	22	for any further written comments from CEP members on the
23	outside communities that work there as well. I'm very	23	material we've been reviewing over the last month to
24	thankful for that.	24	allow Edison time to reflect on that and revise the
25	CHAIRMAN VICTOR: Thank you for mentioning	25	filings before late September, early October when they
	Page 73		Page 75
	rage 75		1 age 73

1 plan to submit the PSDAR. Anything else? Thank you CHAIRMAN VICTOR: Thank you very much. Any 2 very much. 2 other comments before we take a break? Okay. So as is 3 3 We have one other item. Anyone else from our custom, we're going to have a 15-minute break, maybe 4 shorten it a little bit and give a chance to stretch 4 CEP would like to talk about before we have our break? 5 5 There is one other item on the agenda for today. Just your legs, test the exits, and then we'll have a public to report on other CEP activities. We actually already comment period when we come back in 12 or 15 minutes. 6 6 7 7 discussed a lot of this related to cask management so I (Interruption in the proceedings.) 8 won't say anymore on that front. But I do want to ask 8 CHAIRMAN VICTOR: Thank you. Please get 9 Tim Brown to talk about his testimony at the California 9 settled. So we have a public comment period. We have Senate Utilities -- Energy Utilities and Communications 10 three minutes for each member of the public who would 10 hearing in Sacramento. My guess is Sacramento is going 11 11 like to speak. There are many names on the list right 12 to pay more and more attention to what's going on here, now. Rochelle Becker, the floor is yours. 12 13 13 and so we will periodically engage with them your ROCHELLE BECKER: Thank you very much. 14 Hello. I'm Rochelle Becker, and I'm the executive 14 impressions. Tim, I know there are slides that have 15 15 been circulated in advance of the meeting so people had director for the Alliance for Nuclear Responsibility. I 16 16 want to highlight three features of Edison's a chance to look at them. 17 17 decommissioning plan announced this month that deserve TIM BROWN: Yes. Just to give the context 18 18 behind the visit, I didn't feel the particular need to your focused attention. The Alliance intends to raise 19 these points when Edison files its plan with the 19 go hang out in Sacramento for any specific reason. 20 There was actually a request by the senate hearing 20 California Public Utilities Commission this fall. 21 21 committee to hear from a member of the CEP, and so I was First, Edison needs to clarify just what it meant on 22 22 August 1st when it announced that, quote, "San Onofre happy to go and to explain a little bit about how we're 23 23 made up and what we do. I won't belabor the item at all decommissioning is now fully funded and no further 24 24 other than to say it was -- if you look at the deck and customer contributions are required," unquote. Page 18 25 25 be able to walk through it, it was really an opportunity of the PSDAR makes a similar conclusion about sufficient Page 76 Page 78 1 1 to explain a little bit about how each of the -- how the funds being projected to be available and cites the 2 CEP engages with the public, how we apply information. 2 Edison's February 13th, 2014 letter to the NRC, but that 3 3 Reenforce a lot of the key principles and also letter contains cash flows which show continuing 4 reiterated some lessons learned to date, particularly 4 customer contributions of 32.3 million dollars a year to 5 5 through the meeting process and the feedback from the the decommissioning trust fund until 2022. Which is it? public and also our canvassing. So it was an 6 6 Are they going to keep collecting money from customers 7 7 opportunity to provide just a little bit more detail or not? Second, Edison needs to explain why it plans to 8 about what the function of the CEP is. About how the 8 shirk its contractual responsibility under the lease 9 9 information is being processed, how it's working, and with the Navy for complete removal of all sub surface 10 then also answering questions related to that. And it 10 structures. They've also announced their intent to duck was fairly straight forward. You know, Tom spoke about 11 their obligation under the lease with the State Lands 11 technical information. Really lulled them to sleep. 12 Commission for full removal of the ocean intake and 12 13 And so I just, you know, sneak right through with a 13 discharge conduits. Page 13 of the PSDAR states that five-minute, you know, presentation. So I thought it 14 Edison plans to seek alternatives to these requirements 14 went really well. You know, a coordinated attack. But 15 15 because they are costly, but cleaning up your mess is 16 the senators were interested. They asked questions. 16 never cost free. And Edison's announcement that 17 They were pleased that we had a very diverse makeup of 17 decommissioning is now fully funded explicitly claimed 18 elected official, of interested parties, environmental 18 to have taken these costs into consideration. Finally, 19 19 groups, activists, and so they felt as if we had a the PSDAR and the cost estimates that accompany it are 20 20 strong presentation. And really not much else in premised on the federal government beginning to take

21 direction. We didn't sit and have tea afterwards and
21 talk about all of our feelings and thoughts. But the
22 meeting went well, and I would anticipate that in a year
23 or two from now they'll probably be asking for members
24 of the panel to chat with them about progress to date.
25

Transcript of Proceedings

Page 79

spent nuclear fuel in 2024. Is there anyone on the

2024 date? What are the ramifications of wishful

thinking that don't turn out to be accurate? Does it

panel, is there anyone at Southern California Edison, is

there anyone in this room that expects them to meet the

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	make sense for Edison to do its financial analysis	1	would be less compromising to making sure that there are
2	through rose-color glasses? Thank you for the	2	less potential cracking and would be safer for us to
3	opportunity to address you. These matters need to be	3	have than the proposed casks that appear to be quite
4	resolved before any decommissioning plan can be called	4	thin and only have the 20-year possibility for sure,
5	satisfactory. Thank you.	5	where these other casks can likely last quite a bit
6	CHAIRMAN VICTOR: Thank you very much for	6	longer and be a safer, much more safe option as we're
7	your comments. And let me just also say that some of	7	looking out for our community. Thank you very much.
8	the issues you've raised, we are as a panel going to	8	CHAIRMAN VICTOR: Thank you very much for
9	revisit early next year, especially related to this	9	your comment. Sounds like we'll hear more on the cask
10	question of long-term funding beyond 2024 and so on.	10	matter in further comments. Rob Howard next, and then
11	Next on my list is Chris Johnston and then Rob Howard.	11	Ralph Beck.
12	CHRIS JOHNSTON: Hi. Thank you so much. I	12	ROB HOWARD: Greetings. Thank you. In the
13	really appreciate the diversity of this panel and was	13	interest of open disclosure, I am actually an employee,
14	fortunate enough to be at the Oceanographic Institute	14	currently a certified operator at the plant, but today
15	last night and hear Gerry Brown with the Costal Keepers	15	I'm speaking on behalf or from the position as an
16	and Dan Stetson with the Oceanographic Institute and	16	Oceanside resident. My subject is actually having to do
17	hear their input. One of the things that concerns me, I	17	with the consideration of local hiring. Two things.
18	actually just received the Songs unit two and three	18	One, if I am hiring a contractor, I get to decide what I
19	environmental impact evaluation in the mail yesterday,	19	want that contractor to do, and, therefore, I can
20	and so I was very quickly trying to skim the rather	20	dictate the terms of that contract. My concern is that
21	lengthy information here, but the word that kept coming	21	we do not wait until after we have already hired
22	up because I look for repeats in words and so forth	22	everyone to consider the veterans in the area as well as
23	was the word how the impact is small. Small. With	23	the number of diverse groups in the area. There are
24	potential measurable increase in the concentration of	24	some challenges with working through the halls with the
25	one or more increased particle overloads. Also I'm very	25	seniority Petes, but I do believe when you're talking
	Page 80		Page 82
1	grateful to Gerry and Dan about, you know, looking at	1	about multiple contracts, multiple jobs that are going
2	the potential impacts on some of the macro marine and	2	to be done, there are numerous areas where if we choose
3	how that will impact the decommissioning process. So	3	to, there are ways to include a number of those groups.
4	I'm glad we have experts looking at that. Also in,	4	Each of the communities has groups that they can
5	let's see, it's 4.36.2, the potential impacts of	5	probably just think off the top of their head that work
6	decommissioning activities states that impacts are not	6	with young people, that work with veterans, that work
7	detectible or so minor or small that they neither	7	with people who have been displaced, who have skills and
8	destabilize any important attributable, and that they	8	expertise that they can provide as we work with this
9	are considered small. The other thing I was concerned	9	process. It's a long process. It's not a slow process.
10	about was the removal of the sea wall and the pedestrian	10	Well, it is a slow process and it's a long process so I
11	walkway. Again, with the potential impact of	11	would say please give some consideration in that
12	earthquakes and tsunamis. Also, are there going to be	12	conversation around what is happening to remembering
13	radiological releases available to the public during the	13	that I would prefer to have this conversation ahead of
14	decommissioning process? We don't really know if the	14	time and not after all of the decisions have been made,
15	casks that are present have any cracks because there has	15	because then it's a moot point. Thank you.
16	been no way to evaluate or have equipment that can go in	16	CHAIRMAN VICTOR: Thank you very much,
17	there and look at whether or not there are any cracks in	17	Mr. Howard. I think also from the earlier comments from
18	the casks, and also you're very, very careful and taking	18	the panel, this message of this issue of hiring local
19 20	really taking time to make certain that we have the	19	work force needs to be in the discussion in the
20 21	correct casks instead of the half inch to five-eights	20	beginning. I think that's a very good comment. Thank
21 22	inch steel casks that are subject to salt water	21 22	you. Ralph Beck and then Gary Hedreck. Ralph Beck?
22 23	corrosion, and to be able to find the very best possible		Okay. Gary Hedreck and then Donna Gilmore.
23 24	casks around the country or not the country,	23	GARY HEDRECK: Good evening. My name is
24 25	internationally. And I understand that the German casks	24 25	Gary Hedreck. I'm representing San Clemente Green, and I'll keep it brief tonight. I know there is a lot of
2.3	that other people will be addressing in more detail Page 81		Page 83

Tra	Transcript of Proceedings		Community Engagement Panel Public Meeting
1	people that want to talk. I want to commend you guys.	1	based on my research that I think they're inferior.
2	This process continues to impress me in a lot of ways,	2	They're certified only for 20 years. The NRC has not
3	but I want to impress upon you how important your role	3	renewed any of those 20-year licenses. There are two
4	is here and how grateful we are that we do have such a	4	plants that are actually they're expired for two years.
5	talented panel. I also want to encourage you to think	5	They haven't renewed them because of a number of issues.
б	of this as beyond what Edison is asking you to do,	6	The NRC's technical staff has identified concrete aging
7	because there is no decision making power here. We hear	7	issues, stress corrosion, cracking issues. And the
8	that over and over again, but you have tremendous	8	biggest scariest part is there is no mitigation plan.
9	influence. Your voices are being listened to in the	9	If those canisters crack, they have no solution of how
10	community. We're watching everything that goes on here,	10	to repair or replace those canisters. And the answer I
11	and you can make statements outside of this panel, as I	11	got from the NRC when they told me this was, well, we're
12	heard last night, and I appreciate the freedom you have	12	sure that if something happens they'll be able to figure
13	to mix and mingle and present your own ideas. As this	13	it out. This is what they said. So it's really up to
14	process moves forward, I encourage you to keep that	14	Edison, you know, to take care of us on this. We can't
15	process going. Because even though we're not making	15	count on the NRC to do this. So I urge you to make
16	decisions here, you're having great influence on public	16	those decisions and make sure we have some kind of
17	opinion and getting important information where it	17	mitigation plan. Because whatever we get, it's not
18	belongs to decision makers and people that will have to	18	going to last as long as it needs to last. So when
19	live with these decisions well after we're gone. So	19	you're evaluating and moving those pools, which
20	thank you. Keep up the good work.	20	potentially are one mitigation option I'm not sure
21	CHAIRMAN VICTOR: Thank you very much for	21	we need to have, you know, some kind of a plan. I'd
22	your support. And, you know, just reminds me that we're	22	like to see that in the decommissioning plan. Thank
23	having extensive conversations here, and we're not	23	you.
24	always going to agree, but the point is to have these	24	CHAIRMAN VICTOR: Thank you very much for
25	conversations to help inform Edison and vice versa.	25	your comment. I want to remind we need to respect
	Page 84		Page 86
1	Donna Gilmore and then Tom Rodonte.	1	the process. There will be opportunity for each member
1 2	DONNA GILMORE: Hi. Of course I'm going to	1 2	if they want to comment at the end of that. So why
	DONNA GILMORE: Hi. Of course I'm going to talk about the canisters, right. I have been speaking		if they want to comment at the end of that. So why don't just go through the process, otherwise we may have
2 3 4	DONNA GILMORE: Hi. Of course I'm going to talk about the canisters, right. I have been speaking to the NRC, the director over the division of everything	2 3 4	if they want to comment at the end of that. So why don't just go through the process, otherwise we may have a hard time staying to our schedule. So, Ron Rodonte
2 3 4 5	DONNA GILMORE: Hi. Of course I'm going to talk about the canisters, right. I have been speaking to the NRC, the director over the division of everything to do with nuclear waste storage, and what was troubling	2 3 4 5	if they want to comment at the end of that. So why don't just go through the process, otherwise we may have a hard time staying to our schedule. So, Ron Rodonte and Don Mosure.
2 3 4	DONNA GILMORE: Hi. Of course I'm going to talk about the canisters, right. I have been speaking to the NRC, the director over the division of everything to do with nuclear waste storage, and what was troubling is they have a belief system that any problem that	2 3 4 5 6	if they want to comment at the end of that. So why don't just go through the process, otherwise we may have a hard time staying to our schedule. So, Ron Rodonte and Don Mosure. RON RODONTE: Ron Rodonte from Dana Point.
2 3 4 5 6 7	DONNA GILMORE: Hi. Of course I'm going to talk about the canisters, right. I have been speaking to the NRC, the director over the division of everything to do with nuclear waste storage, and what was troubling is they have a belief system that any problem that exists that whatever it is it will get figured out when	2 3 4 5 6 7	if they want to comment at the end of that. So why don't just go through the process, otherwise we may have a hard time staying to our schedule. So, Ron Rodonte and Don Mosure. RON RODONTE: Ron Rodonte from Dana Point. I'd like to enter into a different aspect than what
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Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	seems in the framework of American corporate ability to	1	committee and the effort they're making. In May I
2	take responsibility for anything that's designed or the	2	testified before Senator Boxer's committee arguing for a
3	effects of anything designed. For instance, you have	3	bill that she's introduced that would have local elected
4	the medical industry years ago fought tooth and nail to	4	officials and other interested parties being in a
5	keep the fact that an ulcer was caused by bacteria, and	5	decision-making body, and that's because the
6	it pretty much ruined the pharmaceutical's interests in	6	decommissioning process, as the NRC itself admits, is
7	profit, and the large amount of medical doctors involved	7	very poorly regulated and certainly has a lot of
8	in internal medicine made millions off of people	8	site-specific challenges. I was impressed by how much
9	suffering and delayed that decision to end their	9	different the plans for Vermont Yankee decommissioning
10	suffering by curing them with an antibiotic and some	10	are and the plans for San Onofre. And what that message
11	bismuth for many years. Many people died from that.	11	emphasizes is that this is really a site-specific
12	Well, we're looking at the same thing now. We're	12	planning process, and you need a lot of local input and
13	working on a fallacy that promotes a technology that is	13	a lot of local details and a GEIS and a
14	unsafe, and we're in it now. We have our feet one foot	14	one-size-fits-all plan, and the minimal regulation
15	in it, and there has to be a time to discuss where we're	15	really puts the area at risk and eliminates stakeholders
16	at and how we're going to approach these canisters.	16	that should have influence into the process. So, again,
17	This is the only viable solution at this time for the	17	I welcome the input that you have. I think this is a
18	waste disposal, and they're not even viable in the	18	better process than none at all, but the lack of
19	amount of information we have now as far as what they're	19	decision-making input, particularly by elected officials
20	effecting, how they effect, how they can last for the	20	in the region, is something that I think needs to be
21	amount of time that is expected of them. We have no way	21	changed. There is a bill in committee in the senate. I
22	to transfer the contents. So elaborating on Donna's	22	don't think it's going to get any traction in the
23	observation that the spent fuel pools are necessary in	23	current climate, but it's something I would support in
24	case of a disastrous leak, yes, they are necessary.	24	the future. I'd be happy to discuss these issues with
25	Fukushima is now undergoing spent fuel pool number four	25	any of the committee that wants to talk more. Thank you
23	Page 88	20	Page 90
1	removal, and they depend upon those pools to be there to	1	very much for your time.
2	keep those frames of the nuclear fuel there cooling.	2	CHAIRMAN VICTOR: Thank you very much for
3	CHAIRMAN VICTOR: Thank you very much. Don	3	your comments. Let me just remind everybody that our
4	Mosure and then Marnie Magda.	4	6th October meeting will be focused on emergency
5	DON MOSURE: Hi, my name is Don Mosure. I'm	5	planning and preparedness. And the issues that
6	a counsel member from the city of Del Mar. I have two	6	Mr. Mosure's raised will be discussed there in some
7	comments to make. One has to do with the environmental	7	detail. And I don't think you were at our workshop in
8	impact evaluation on Page 27. It says that the risk of	8	the middle of July, but in that workshop I reported out
9	severe accidents involving the spent fuel pool	9	having testified to the Nuclear Regulatory Commission.
10	containment is small. I think that is an error because	10	They are seeking our input on what they can do on a
11	when the original plant was built, that risk was	11	regular basis for to streamline the process of
12	mitigated with an emergency plan, which now is, as I	12	decommissioning, rule making and so on. So I think
13	understand it, deactivated. So there is no mitigation	13	there is interest there. Clearly there is a lot of
14	for that risk in the future planning. Is that	14	chaos there as well. Marnie Magda and then Joe
15	information correct, Tom?	15	Schortino. And, please, I apologize if I've
16	TOM PALMISANO: The full emergency plan is	16	mispronounced Mr. Schortino's last name.
17	still in place. We have proposed reduced emergency plan	17	MARNIE MAGDA: Thank you so much all of you
18	which is under NRC review which wouldn't be approved	18	for your hard work. I'm particularly glad in the
19	until sometime next year. And it's based on the	19	beginning to be able to see all of the clear pictures of
20	reactors not operating.	20	the overheads. Thank you, Ted. And last night's
21	CHAIRMAN VICTOR: Let's let you continue.	21	meeting, Dan and Garry, fabulous to have more
22	DON MOSURE: Thank you for that	22	information for the public. I'd love to see more of
23	clarification. Then that's a future comment rather than	23	that. And particularly tonight to hear that those
24	a current comment. The second comment has to do with	24	outtake pipes have radiological history that we need to
25	the process. I appreciate the diversity of this	25	have a very clear picture look, testing so that we know
	Page 89		Page 91
	6		5

one of the things that they don't talk about this far, 1 whether we're better leaving or taking them out. Is 1 2 there an environment there we're saving or are they 2 they haven't explained this far how long this radiation 3 3 radiating and hurting the ocean still. So thank you for does last, and it's in the millions of years, and 4 4 the hard work. I spent a lot of time on this. I don't because it has a half life when it starts to break down. 5 know how anybody -- I haven't gotten through the 400 5 But also in the constructions there was a lot of 6 6 pages, and I have really been trying hard, so I know problems, a lot of fears, a lot things Edison didn't 7 7 that the pressures on you are huge. I'm very concerned talk about. When they had during an outage one time 8 that on Page 18 and that February 13th seeking to change 8 there was a failure of unit two steam generator long 9 9 the funds of the nuclear decommissioning trust to not before they took the one out with the next failure. I 10 10 just be for radiological decommissioning but to go for was there at that time, and I'm the one that was the 11 the two other types of decommissioning, which are site 11 foreman to repair it, and these are the photographs of 12 12 restoration and license termination. And tonight we saw that job, which was hush-hush, if anybody wishes to see 13 that's two billion for license termination, one billion 13 them. Anyway, the thing is they have to -- wouldn't 14 14 for site restoration and just one billion for the fuel rely on Edison, number one, to have anything to do with 15 15 management. And I want to say to all of you, this, at least be the one that's the only one keeping 16 particularly Edison, I don't think anybody cares if control of this. As far as I was concerned, in all the 16 17 17 those stones would sit there forever, maybe not even the years I was there they're very, very poor as far as in 18 18 Navy. But what we care about is that spent fuel is what these things. And, anyway, if anybody has any 19 19 is dangerous and must be addressed before anything else questions, I can answer them later for you. Thank you. 20 money-wise and place-wise and full focus. And it seems 20 CHAIRMAN VICTOR: Thank you very much for 21 21 to me in this report you're doing it backwards. You're your comments. Carl Allenger and Jeff Steinmets. 22 actually pulling railroad tracks before we've gotten the 22 CARL ALLENGER: Good evening. My name is 23 23 fuel out. You know, the last thing to go is the ISFSI Carl Allenger, and I'm a Fallbrook resident. Since the 24 24 pad and the spent fuel, and we will have already gotten last panel meeting we have experienced Northern 25 25 rid of a sea wall, gotten rid of the parking lot, any California's largest earthquake in 25 years. We have Page 92 Page 94 1 building -- even the reactor dome that a plane could 1 learned that the Japanese company KEPCO has admitted to 2 hit. If the inside's gutted and it's not still 2 understating the actual leakage of Fukishima leaking 3 radiological, let's leave that where we put a new spent 3 into the Pacific ocean. Now admitting that it was 4 fuel pool that could be used in case of a dangerous cask 4 hundreds of billions becquerels per day until recently, 5 over the next 50 years. I mean, it could be legally by 5 and continues to leak at eight billion becquerels per 6 6 the Nuclear Regulatory Commission it could be 2073 day. We also learned that Mr. -- that Dr. Michael Peck, 7 7 the NRC's former senior resident inspector at Diablo before we move those casks off of this area. We've got 8 sea erosion that could be ruining the casks. Please put 8 Canyon recommended one year ago that Diablo Canyon be 9 9 a building over them. Have the rails. Really make that shut down because its seismic risk is operating, quote, 10 an ISFSI pad. If you can move it further into Camp 10 "outside the bounds of the existing design basis and Pendleton, talk to them. They don't want to lose a 11 safety analysis." The NRC chose not to address his 11 12 military base for 200,000 year. Sorry, that's my 12 concerns during that year that followed, nor did they 13 exaggeration. At least 10,000. So thank you for your 13 disclose his concerns to the public. My understanding hard work. Please open up the bidding on those casks to 14 is he essentially fell back to whistleblower status to 14 more people. We've gotta have the best. The Navy has 15 get this word out, and our United States senator is now 15 16 the best. Let's get the before. Let's spend the money 16 calling for hearings on this cover up. These factors, 17 17 there. while not directly impacting the plan here today, must 18 CHAIRMAN VICTOR: Thank you very much for 18 be ever present in our decision making, and enormous your comments. Joe Schortino and then Carl Allenger. 19 changes in the NRC transparency is needed if we are to 19 JOE SCHORTINO: Thank you. Name is 20 20 ever trust them to act as our protecting and regulating 21 Schortino. Anyway. I'm probably the oldest one here as 21 agency. I also do not think it is prudent to try to 22 far as in the nuclear power program in this room. I was entomb the canisters in a way that will prevent careful 2.2 at the Navy is submarine service 1966 and went to all 23 inspection of each canister on a regular basis. Having 23 24 24 the nuclear engineering schools. I worked at San Onofre a representative cask to predict the health of others is 25 20 years building the plant and doing the outages. And not a comprehensive plan. We do not need the nuclear 25 Page 93 Page 95

Transcript of Proceedings

Transcript of Proceedings

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	paradox of Schrodinger's cask. As before, I remain	1	as amended that there be multiple layers of defense. In
2	impressed by Mr. Palmisano's work, and I want to thank	2	1976 I was attending one of the NRC hearings this
3	all of you for keeping us informed and involved in San	3	morning on San Onofre, and afterwards I gathered up some
4	Onofre's progress and decommissioning. Thank you.	4	documentation that I have. And in 1976 the New York
5	CHAIRMAN VICTOR: Thank you very much for	5	Times Magazine did a front page of the magazine article
б	your comments. Jeff Steinmets and then Ace Hoffman.	6	on the defense in depth, and they had a picture of a
7	JEFF STEINMETS: First, I'd like to thank	7	nuclear reactor surrounded by sort of looks like a
8	the panel for reading all the content and trying to come	8	containment dome and another containment dome around
9	up to speed. I know from personal experience that it's	9	that and another one around that, and there were like 10
10	also difficult to sit there and actually read the	10	or 12 of them. And so I went through the list, and I
11	documents over and over again. I myself am not a	11	compared, well, how much defense in depth are we going
12	nuclear engineer. It's not been my choice of field, so	12	to have with these dry casks as compared to what they've
13	I do appreciate the work that you've done sincerely.	13	the nuclear industry has been saying all along is
14	With that said, there is one thing that we're all very	14	what we actually have for a reactor. The spent fuel,
15	aware of, and that is that Yucca Mountain is never going	15	it's not just as dangerous, but it's very, very danger.
16	to happen. I'll say it again. Yucca Mountain is not	16	It needs defense in depth. And so what do we have? We
17	going to happen. So why are we actually acting in terms	17	have a five-eights inch thick piece of stainless steel
18	of the casks that it is? We're going to depend on a	18	and that's it. There is no other line of defense. A
19	cask that was designed that Yucca Mountain was going to	19	couple of guys with pop guns. That's about it. That
20	come and take all the waste away? That's not going to	20	doesn't count. That wasn't even listed in the New York
21	happen. You need to change the way you're thinking	21	Times Magazine's image in that photograph. The security
22	about that. Those casks that are being seriously	22	around the plant, it's not even included in the defense
23	considered today are not going to be taken away in a	23	in depth. Because if there's people attacking that
24	timely fashion. The 2024 date is fantasy as well.	24	plant of the type of terrorists we have in the world
25	That's not going to happen. So it's important when	25	today, we're in trouble. We're in big trouble. Now,
	Page 96		Page 98
1	you're considering where you're going to put this highly	1	the Nuclear Regulatory Commission, who are conspicuously
2	toxic waste for hundreds of years, you can't sit there	2	not here as usually, they always turn to us and say TSA
3	and assume that it's going to be gone in 20 years. And	3	is going to handle an airplane strike. They're going to
4	when you choose casks that were designed under the	4	prevent it by, you know, preventing a highjacking. That
5	premise that Yucca Mountain was going to take it away,	5	would be nice if it's going to happen. An F-15 fighter
6	that's exactly what you're doing, and it needs to stop.	6	jet crashed into a mountain in Virginia today and killed
7	Thank you.	7	a pilot. Anybody can we had a tank that was stolen
8	CHAIRMAN VICTOR: Thank you very much for	8	here about 20 years ago. Lots of things can go wrong.
9	your comment. Just to clarify the record here, we have	9	We're going to need defense in depth. I'm hoping that
10	been asked as a panel to look at a series of regulatory	10	15 inches of steel on a cask per cask is going to be
11	filings that are required to use these dates, but nobody	11	good enough. But in addition I think we need a
12	believes that they're going to take the fuel away on	12	building. I think we need earth-in berms. I think we
13	that timetable. So just to clarify the record, the	13	need to move the waste further away from the coast,
14	panel is very, very focused, as is Edison, on the longer	14	further away from international waters. There is just
15	term game plan. And, in fact, that was a central theme	15	so many things we need to do. As for the money, if you
16	in the workshop we held on this topic. So I want to	16	guys are already suing the DOE for not taking the waste,
17	thank you very much for your comments. I just want to	17	sue them for the price of the cask or casks while you're
18	make sure we're all clear about this. We all know that	18	at it, and then we don't have to worry about the money.
19	the DOE time plan is a fantasy. Ace Hoffman. After	19	I'd like to talk about a lot of other issues, but I did
20	Mr. Hoffman is Patricia Borschman.	20	ask Gene to send the later that I sent to the NRC
21	ACE HOFFMAN: I'm not sure where to begin	21	regarding this morning's meeting out to all of you, and
22	here. 50 hours you said you spent on this slide paper	22	I hope that you got it and will read it.
23	that you're working on. I probably spend that on one	23	CHAIRMAN VICTOR: We received it. Thank you
24	newsletter. I want to talk about defense in depth.	24	very much for your comments. Patricia Borschman,
25	This is a core concept of the Atomic Energy Act of 1954	25	please, and then next is Roger Johnson.
	Page 97		Page 99

1 PATRICIA BORSCHMAN: My name is Pat have a short statement an then a question. Last 2 Borschman. I'm a resident in Escondido, and I've been 2 February the nation's only repository, deep radiological 3 3 concerned about the nuclear reactor at San Onofre for a repository failed. There were fires, explosions and 4 4 very, very long time. I was born in Southern radiation leaks, and it's now closed. This was a 5 5 California, and I'm older than all of you, so it's been flagship program of the Department of Energy and it 6 6 a really long time since it was built, and the failed. It claimed that there was -- the risks were 7 7 assumptions that were made then are, I think, outdated. small. Risk analysis calculated that an accident here 8 So I think that a lot of assumptions that you're 8 would happen once out of every 200,000 years. And what 9 9 building into your cost estimate are very unrealistic. happened in 15 years, it failed twice in 10 days. So 10 what are the chances of having a permanent national 10 And I'm very disturbed to hear that your decommissioning 11 plan is relying on assumptions that are, for instance, 11 solution like this? The chances are small. As been 12 said tonight, it's probably not going to happen. Last 12 that unit one vessel, you know, is not a problem, and 13 the unit two and three won't be either because you've 13 week the New York Times analyzing this said that experts 14 14 already assessed that from the unit one a long time ago. are very skeptical there ever will be such a program. 15 15 I think that's a good example of the type of But yet what we have here is Edison's entire plan rests 16 16 oversimplification in your type of analysis in the on removing -- having the government step in and save 17 17 process. Not yours. I appreciate the CEP panel. I'm everything in 2049 and take it all away. Professor 18 18 saying Edison's analysis. So, please, I didn't mean to Parker mentioned at the beginning of the program here, 19 direct the criticism to the CEP, because I very much 19 he asked what are some contingency plans when this 20 appreciate your existence and Edison's change to involve 20 doesn't happen, and then he was asked not to answer the 21 21 citizens in the process at all. I appreciate all of you question, and we'll wait until next year to find out the 22 22 travelling as far as you do and coming here. One of the answer. I would like to hear, Tom, if there is time 23 23 other things that was really disturbing to me about tonight, tell us a few minutes about Edison's plan. You 24 24 these budgets are the worse case assumptions that said that Edison's thought about it. They could have a 25 25 Edison's built into the decommissioning plan, 4.4 plan. I would like to know what the plan is. It sounds Page 100 Page 102 1 million. But that's another example of an unrealistic 1 to me like the plan is to keep nuclear waste in this 2 assumption. So say, for instance, you're assuming that 2 area forever and these 20-year casks that are going to 3 3 the cask designs that Edison proposes are going to be last for 20 years, and I'd like to hear what's going to 4 good enough. And you already heard, you know, very 4 happen after this. So there really is no plan at all. 5 technical expertise from people way more qualified than 5 It's a plan for disaster. So it depends upon having a 6 nuclear waste repository and the waste taken away. I 6 I am to more fully describe what those deficiencies and 7 7 shortcomings are and what the extent of consequences think we need to think seriously about another plans, 8 are. This isn't pretend. This isn't a game. This is 8 because this plan isn't going to work. So if there is 9 real life. Edison has a duty. You have a duty. We all time, I hope that you can address this question so we 9 10 have a duty. I'm trying to do my duty as a public 10 don't have to wait until 2015. Thank you. citizen in Southern California to warn -- to give people 11 CHAIRMAN VICTOR: Okay. Thank you very much 11 for your comments, and if there is time, I'll ask Tom if the best picture about Edison's plans is not credible 12 12 13 for a safe decommissioning plan and the plan they're 13 he wants to make remarks in this regard. Last speaker proposing for the type of casks. And there is better 14 in the public comment period is Ray Lutz, and then I'm 14 cask designs internationally that were described very 15 going to open it to panel if there are any further 15 well by Donna Gilmore. And I think it's ridiculous that 16 16 comments from the panel before we close. 17 17 Edison expects Southern California citizens to accept RAY LUTZ: Hello. My name is Ray Lutz. I'm 18 those or expect that those will be good enough. They're 18 with Citizens Oversight. My background is in not. And I was also disturbed that someone mentioned 19 engineering. I am represented party at the CPUC at some 19 20 of their hearings. I did submit written questions to 20 earlier that there is such a large different between the 21 type of decommissioning plans that are going on here in 21 the panel, but before I get into that, I'd like to bring 22 San Onofre and those at like -- forgot the name of it. up a point. Oil tankers used to be one thickness of 2.2 23 CHAIRMAN VICTOR: Thank you. Thank you very 23 steel. Guess what they learned? If it gets a leak, the 24 24 oil leaks out into the ocean. Now they're required to much for your comments. Roger Johnson and Ray Lutz. 25 have two thicknesses. So if it gets a hole in it, the 25 ROGER JOHNSON: Thank you. Good evening. I Page 101 Page 103

Transcript of Proceedings

11a	nscript of Proceedings		Community Engagement Panel Public Meetin
1	oil doesn't instantly leak out, and they know, oh,	1	GENE STONE: I've heard a lot of great
2	there's a hole in the outer skin, and, therefore, we can	2	comments tonight from the public, and thank you very
3	fix that and the oil doesn't leak out. What you guys	3	much. But I'd like to reemphasize what Ace and Ray just
4	are proposing is the old oil tanker that leaks plan.	4	said. The Atomic Energy Act clearly states that there
5	One thickness of steel. When it gets a hole in it due	5	is supposed to be backup systems to all nuclear
6	to corrosion it starts to leak and the radiation seeps	6	activity, and that has been true. There is backup to
7	out just like the oil did in the ocean. Haven't we	7	backup to backup in the running of a power plant, but
8	learned anything yet? Hasn't mankind learned anything	8	the NRC has been negligent to the point of criminality
9	yet? We're still working with one five-eights inch	9	as far as I'm concerned that there is no defense in
10	thickness of steel. Ridiculous. Get a new plan. We	10	depth in lay storage. We cannot consider that enough,
11	need at least two thicknesses of steel so when the outer	11	and we should demand defense in depth in lay storage,
12	one leaks, we can learn about it and then fix it before	12	and today there is none. Thank you.
13	the inner one starts to leak. That's simple, but no one	13	CHAIRMAN VICTOR: Thank you for your
14	is even talking about two layers on these canisters. I	14	comment. Other comments people would like to make,
15	want to bring up these other points. In the Songs one	15	including comments about the public comment period and
16	decommissioning there was no records kept. SCE lost	16	comments from members who would like particular comments
17	them all. Lost them all. I asked them for it. Do you	17	raised by the public to be answers by Edison, especially
18	have any records of what you spent on Songs one? No,	18	regarding the agenda for tonight? Tim Brown.
19	it's completely lost. What a disaster. Are we going to	19	TIM BROWN: There was a series of comments
20	lose them again? Do we have a system to keep track of	20	about cracks in canisters, radiation monitoring and
21	our costs? What kind of a system is it this time? I	21	stainless steel degradation. We have casks currently in
22	want to know, and that's why I'm asking the question on	22	San Onofre. How long have we had casks at San Onofre?
23	my list of questions. Major portions of the	23	TOM PALMISANO: We currently have 51
24	decommissioning process occur just a few phases, five	24	canisters loaded. 50 of them with spent fuel, one with
25	different phases, and that encompasses something like 17	25	what's called greater than Class C waste. The ISFSI pad
20	Page 104	23	Page 106
1	years and many billions of dollars. I think it's 2.4	1	was built and they were loaded starting in about 2003 as
2	billion dollars. One of the issues was it's not broken	2	part of the unit one decommissioning.
3	down enough. How do we track it? Are we going to have	3	TIM BROWN: And as part of that, is there
4	just one big contract to your subcontractor, or are we	4	monitoring onsite for any leaks, or would you tell if
5	going to be able to track each phase of this? Because	5	any was happening inside those? What's the, you now
6	it's almost impossible to track this kind of a project.	6	TOM PALMISANO: The casks are as they are
7	We need better tracking, and that's what I'm asking for	7	loaded and they are drained of water, evacuated and
8	you to break out times and costs for each one of these	8	dried, filled with helium, pressure testing that's done
9	sub phases that you've grouped together in another	9	after lids are welding on, then the pressure connection
10	document I didn't talk about. So, please, I don't know	10	is capped after it's confirmed it's got the right helium
11	how to process this, but I'm expecting a written	11	pressure. It's then surveyed for external radiation
12	response. Thank you.	12	contamination, it's moved to the storage in a heavy
13	CHAIRMAN VICTOR: Thank you for your	13	concrete module, which is one of the defense in depth
14	comments. I just want to assure you, you sent me an	14	features for external event. And they are periodically
15	e-mail two days ago after we circulated the documents	14 15	inspected, temperatures are monitored external to the
16	for today's meeting. That e-mail will be part of the	16	cask, make sure there is circulating air flow that's
17	public records as we circulate all the documents and has	10 17	operating properly. Radiation levels and contamination
18	been now transmitted also to Edison.	17 18	
10 19	RAY LUTZ: My request is a written response	10 19	levels are periodically monitored on the exterior of the structure. So that's what was done. There is not an
		19 20	
20 21	from Edison or whoever else can answer the questions.	20 21	internal monitoring of the cask. We judge cask
	CHAIRMAN VICTOR: Thank you for your	21 22	performance by the external temperature.
22	request. So I now would like to see if there are		TIM BROWN: Then the last item I want to ask
23	additional comments the members of the panel would like to make. And I know Gene Stone would like the floor and	23 24	about is performance. There was questions about how they perform in an ocean environment. Now, this is a
21	TO THAKE AND LKNOW GENE NOTE WOULD LKE THE HOOP 900	24	LUEV DEFLORING IN AN OCEAN ENVIRONMENT NOW THIS IS A
24 25			
24 25	perhaps others. Gene Stone, the floor is yours. Page 105	25	very small sample, 52 casks in San Onofre. Have there Page 107

Tra	nscript of Proceedings		Community Engagement Panel Public Meeting
1	been any instant right now of rust, cracking or anything	1	current design at San Onofre, the other designs that we
2	that has degraded on the casks today?	2	are considering that are licensed by the NRC are
3	TOM PALMISANO: The in-service casks in this	3	designed to withstand external events such as
4	country, and this ranges from the east to the west coast	4	earthquakes, flooding, tsunami, tornados in other areas
5	to the south to the midwest have performed without a	5	of the country, tornado-generated projectiles like a
6	leak of the radioactivity in the cask. Some of the	6	telephone pole going into the casks. And the NRC sets
7	earlier comments made by members talked about leakage	7	the requirements and cask manufacturers have to
8	between a double-sealed lid, which was one of the	8	demonstrate they meet them. Likewise, there are
9	vulnerabilities in a cask or casks because they're	9	security threats that are classified that the casks have
10	mechanical seals. Legitimately there is a concern about	10	to be designed coupled with our security system and
11	future inspection programs. Chloride stress corrosion	11	security force to prevent. So there is a design basis
12	cracking is a phenomenon that can affect austenitic	12	for both security and external events that the casks
13	stainless steel, which these canisters are made of. The	13	have to meet.
14	industry has experience with piping systems both in how	14	CHAIRMAN VICTOR: Thank you very much. Let
15	to detect, how to prevent and how to repair it. The	15	me see. Anymore comments down here? Directly on this
16	inspection technology has gotta be transferred.	16	topic, Gene? Okay. And then to Ted Quinn.
17	Technology exists that's gotta be customized for	17	GENE STONE: Tom, to present date, as you
18	canister inspection. So in truth there isn't a tool	18	said, license renewal is coming up to 2023 for the 51
19	today I can inspect with, but there is technology I can	19	casks that you have. Have you ever pulled a cask out
20	develop to, you know, that I can utilize to develop a	20	and inspected it?
21	tool. Much like over the years we've learned how to do	21	TOM PALMISANO: We have not pulled a cask
22	in-reactor vessel repairs, techniques that didn't exist	22	out, no.
23	30 years ago that were developed over time. So what	23	GENE STONE: So this is, what, 16 years and
24	needs to happen with these casks today and whatever	24	we have never pulled one out to inspect it?
25	casks we buy in the future, there needs to be what's	25	TOM PALMISANO: We have not pulled one out
	Page 108		Page 110
1	called and aging management and surveillance program to	1	at San Onofre.
2	periodically inspect, check the cask and mitigate any	2	GENE STONE: Thank you.
3	problems with the cask. So that has to be part of the	3	CHAIRMAN VICTOR: Ted Quinn.
4	license renewal. The current casks as San Onofre their	4	TED QUINN: I'd like to ask about the
5	license expires in 2023. As part of the license renewal	5	meeting in October. It's on emergency planning, which
6	we need to develop and commit to that and put in place	6	is a really important subject to me. Will you also talk
7	those	7	about security planning or is that a separate time?
8	TIM BROWN: So they're coming up on 20 years	8	CHAIRMAN VICTOR: I view security planning
9	right now it sounds like.	9	as part of the footprint of the plan to be incredibly
10	TOM PALMISANO: The license for San Onofre	10	important. Do you want to comment directly on this?
11	expires in 2023, and that's actually held by the vendor	11	TOM PALMISANO: Yeah. I think when we
12	Areva Transnuclear for that.	12	planned the October meeting first off, we would be
13	TIM BROWN: Rust, breakage, anything on the	13	glad to talk about security planning in some level of
14	current casks that have been reported?	14	detail, but a bit of that quite frankly is classified.
15	TOM PALMISANO: Not on the current casks	15	CHAIRMAN VICTOR: Yeah, we're not
16	that have been reported. Concrete spalling at other	16	TOM PALMISANO: So we won't cross that
17	locations other than San Onofre on the external of the	17	boundary. To reassure everybody, the security
18	concrete structures, which is easily found and repaired.	18	requirements don't change. You know, the security
19	TIM BROWN: Last item. Sorry. Last item it	19	requirement footprint shrinks because I don't have
20	was, you know, one of the things that was touted was the	20	reactors to protect, but I have the spent fuel storage
21	domes were prepared for any type of strike. You talk	21	instillation to protect through the same security
22	about defense in depth on the casks. They raise	22	requirements that existed before. I think in October
23	questions about can it withstand an attack or, you know,	23	we're going to have a full workshop or session on
24	oon you give us just a brief summery about	24	amanganay planning. So as we plan that what I'd like

25

24 can you give us just a brief summary about --

Page 111

²⁴ emergency planning. So as we plan that, what I'd like

²⁵ to suggest, David, is we work with you to craft the

Transcript of Proceedings **Community Engagement Panel Public Meeting** agenda and see what time we have available. actually have a lot we can learn from other sites as 1 2 CHAIRMAN VICTOR: I'd also like to ask Ted, 2 they deal with aging issues and so on. The other thing 3 3 if he's willing, let's get the agenda done earlier than that has been quite impressive to me is how dependant we 4 4 normal, and let's come back to you, Ted, and see whether are on the cask vendors. And so when we think about 5 5 the parts of the meeting that are related to security buying casks, we're not only thinking about a marriage 6 planning that can be discussed in a non-classified way, 6 to the cask, but a marriage to the vendor. And we have 7 7 if that's sufficient if that will be helpful to you. to evaluate the vendor and their presence in the 8 TED QUINN: Thank you. 8 American market and their interest and ability to make 9 CHAIRMAN VICTOR: Let me also ask any other 9 long-term -- to participate with us long-term because we 10 10 members of the panel who want to work with me and Tim need them to do the license renewals and so on. This 11 Brown on the agenda for that meeting. That's going to 11 20-year time line people have been talking about, that's 12 just the first license. So you get -- and nothing is 12 be a tricky meeting for us because we're going to be 13 reviewing a plan that's already been submitted but is 13 licensed beyond 20 years. So you keep getting license still under consideration. So we're not going to have a 14 14 renewals, and so we're very dependant upon the cask 15 workshop separate from the meeting, but we're going to 15 vendors. So I would urge that as these discussions try to run the meeting in workshop mode with a little 16 unfold that we pay attention not only to the technical 16 17 17 more back and forth. Hopefully that will be affective. details, but to, frankly, the integrity, presence and 18 18 October 6th; right? incentives of the vendors, which are perhaps just as 19 19 TED QUINN: October 9th. important. 20 TOM PALMISANO: I believe it's the 9th. 20 The last thing I was struck by in doing this 21 21 We'll double check the date. review is that the defense in depth, which is a term 22 22 CHAIRMAN VICTOR: Don't listen to anything I that has come up a lot today, is not a term of art that 23 23 say about that date. Listen to what was written down. is getting used in the regulatory process in this area, 24 TIM BROWN: We're fairly confident it's this 24 but instead there is lots of other regulatory procedural 25 25 details and engineering issues that I think when we look year. It's going to be this year. Page 112 Page 114 1 CHAIRMAN VICTOR: It's going to be this 1 at them we will recognize as defense in depth. But, 2 year. You're an awesome vice chairman. I really want 2 frankly, the technical community has not been doing a very good job in communicating what is actually going on 3 to thank you for that. Any other comments that the 3 4 panel -- Dan Stetson. 4 in terms of what we would think of as defense in depth. 5 DAN STETSON: Really just a suggestion. I 5 So I think part of the answer to the request from Gene 6 6 want to thank you, Tom, for the tour that you provided Stone and a variety of other people is to articulate in 7 7 me, and Chris mentioned that tours are going to be open plain English what this actually means at the San Onofre 8 to the general public soon. So I really think that that 8 site, how this unfolds, what our relationships to the 9 vendors are and so on. And I know when Tim and I did 9 is a wonderful activity, and I'd like to remind everyone 10 in the audience to take advantage of that. I went there 10 the survey of the CEP members, the vast majority of them asked us to talk about other things than nuclear waste, with my wife with a ton of questions, and they went into 11 11 12 great detail on every single question, so thank you for 12 nuclear fuel, and I appreciate that, and our next 13 that. 13 meeting in October will deliver on that promise. But we 14 CHAIRMAN VICTOR: Thank you very much. So I 14 will not lose sight of this issue. We will continue to just want to make four brief comments related to those 15 work on it. We will continue to gather facts in a very 15 16 issue that have come up today about the casks and where 16 prompt way and organize some discussions around this. 17 17 we're headed on that just to give people a sense of So look for more from us about this even in the coming 18 this. As I've already mentioned, it's a process we set 18 few days. up in the CEP to gather facts, talk about them. We're 19 I think we are now finished with our formal 19 not going to agree on everything, but to try and orient 20 20 agenda. I want to thank all of you on the eve of this 21 this around the facts. I have been tremendously 21 long weekend for spending an evening with us, and I look impressed by how much information there is out there. 22 forward to seeing you again at our future meetings. 2.2 23 There is still a lot to be learned, and this is a 23 Thank you. 24 24 long-term aging program. The first stainless steel cask (Whereupon at 8:55 p.m. the proceedings 25 went into service in this country in 1989. So we concluded.) 25 Page 113 Page 115

Transcript of Proceedings

1	STATE OF CALIFORNIA)	
2)SS. COUNTY OF SAN DIEGO)	
3		
4	I, JANETT JIMENEZ, CERTIFIED SHORTHAND	
5	REPORTER IN AND FOR THE STATE OF CALIFORNIA DO HEREBY	
6	CERTIFY:	
7	THAT SAID MEETING WAS TAKEN DOWN IN	
8	STENOGRAPHIC WRITING BY ME AND THEREAFTER REDUCED INTO A	
9	TRANSCRIPT UNDER MY DIRECTION.	
10	I FURTHER CERTIFY THAT THE FOREGOING IS A	
11	FULL, TRUE AND CORRECT TRANSCRIPT OF SAID MEETING.	
12	I FURTHER CERTIFY THAT I AM NEITHER COUNSEL	
13	FOR NOR RELATED TO ANY PARTY TO SAID MEETING, NOR IN ANY	
14	WAY INTERESTED IN THE OUTCOME THEREOF.	
15	IN WITNESS WHEREOF, I HAVE HEREUNTO	
16	SUBSCRIBED MY NAME ON THIS 10TH DAY OF SEPTEMBER, 2014.	
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23	JANETT JIMENEZ, CSR NO. 13215	
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	Page 116	