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IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
IN AND FOR THE COUNTY OF SONOMA
HON. MARK A. URIOSTE COURTROOM THREE

- - -

THE PEOPLE OF THE STATE OF CALIFORNIA,) No. SCR-745228-1
)
Plaintiff,)
)
vs.)
)
PACIFIC GAS AND ELECTRIC COMPANY, aka)
PG&E, PACIFIC GAS AND ELECTRIC,)
)
Defendant.)
-----)

REPORTER'S TRANSCRIPT OF PROCEEDINGS
HAD AT TIME OF PRELIMINARY HEARING
FEBRUARY 9, 2022

- - -

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16
17
18
19
20
21
22
23
24
25
26
27
28

I N D E X

Proceedings	160
Reporter's Certificate	336

WITNESSES

Gary Uboldi

Direct Examination (Resumed) by Mr. Henning	161
Cross-Examination by Mr. Kravis	167
Redirect Examination by Mr. Henning	234
Recross-Examination by Mr. Kravis	244

Joseph Hemstock

Direct Examination by Mr. Henning	245
Cross-Examination by Mr. Kravis	319
Redirect Examination by Mr. Henning	329
Redirect Examination by Mr. Henning	331
Recross-Examination by Mr. Kravis	332
Further Direct Examination by Mr. Henning	333

EXHIBITS

<u>NO.</u>	<u>DESCRIPTION</u>	<u>MKD.</u>	<u>REC'D.</u>
72	Document		276
91	Photograph		283
92 - 94	Photographs		285

1 ---oOo---

2 P R O C E E D I N G S

3 ---oOo---

4 THE COURT: Good morning. Let's go on the
5 record in People versus Pacific Gas and Electric. The
6 parties are all present and in their places. If it's
7 all right with all of you I'll just make that general
8 broad statement each morning rather than having each of
9 you announce your presences each morning.

10 MR. HENNING: That works.

11 THE COURT: The witness is on the stand.

12 Good morning to you, sir.

13 Before we get started or resuming the
14 testimony, I understand that several parties have
15 arranged to have the transcript of the day's testimony
16 broadcast to them each day, which is fine, but the Court
17 is going to modify its order regarding the exclusion of
18 the witnesses to include an order that no potential
19 witness is to receive or review in any way the testimony
20 or transcript of any other witness until excused as a
21 witness from this hearing.

22 With that, are we prepared to continue with Mr.
23 Uboldi's testimony?

24 MR. HENNING: We are, your Honor. Thank you.

25 THE COURT: Sir, I'll remind you that you are
26 still under oath.

27 Mr. Henning.

28 MR. HENNING: Thank you.

DIRECT EXAMINATION (RESUMED)

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BY MR. HENNING:

Q. When we were wrapping up at the end of the day yesterday, Mr. Uboldi, I was about to ask you about the general origin area investigation that you did with respect to the Sawmill Fire. And I'll just put back up People's 46.

It's hard to discern, but can you see there's red flags depicted on the ground in People's 46?

A. Yes, I do.

Q. Are these flags flags that you used in your general origin area investigation, similar to what you described with respect to Kincade?

A. Yes, they were.

Q. And could you just generally for us describe your -- the investigation that you conducted back in September of 2016 at the base of these three poles?

A. Once we arrived up there, we secured the area and ended up moving our trucks back up to a better location. I leapfrogged. I remained at scene, my boss went down. Chief Baldwin went down, moved his truck up. And we flip-flopped that way. To ensure the security for the scene.

Before we started throwing flags, putting flags out, we photographed the whole area, as it was undisturbed. And then we began to attempt to identify the fire pattern indicators around the area, which again brought us back to the three wooden power poles.

1 Placing flags out, we both worked together. One
2 from the east, one from the west. We worked our way
3 back to the power poles.

4 At that point, we ended up finding the wire on
5 the ground, and then we further investigated -- did a
6 visual inspection of the poles themselves.

7 Q. And I'm going to ask you another question in a
8 moment.

9 Your Honor, the TV feels, at least from my point
10 of view, less tilted than it was yesterday. Is this
11 good enough for you, for the Court?

12 THE COURT: Thank you for asking. It's fine.

13 MR. HENNING: Thank you.

14 BY MR. HENNING:

15 Q. A question about these three poles. Are they
16 connected in any way?

17 A. Yes, they were.

18 Q. Can you describe that?

19 A. Their connection was the three poles going
20 vertically up, and then across the top was an I-beam,
21 metal eye beam, connecting all three poles together.
22 And they were connected to grounding wire, which
23 grounded the whole structure itself back to earth.

24 Q. That connection that you just described, is that
25 depicted in People's 46?

26 A. You can see components of it.

27 Q. Would it be fair to say that most of that
28 connection is out of view on People's 46?

1 A. Yes.

2 Q. Okay. Please describe for us what you did next.

3 A. Upon our visual inspection of the poles, we
4 located an area on pole 02 A, which is the farthest pole
5 to the left, and went sequentially. 02 A, B, and C,
6 sequentially up the hill.

7 On top of A we noticed there was a missing
8 section of wire on the top portion of the pole. It was
9 unlike the other poles, B and C. B and C had that wire
10 in place. A had that wire missing, and we found a wire
11 that was similar to that laying on the ground.

12 Q. Okay. The wire that you found that appeared
13 similar, is this the wire that we talked about yesterday
14 that's depicted, for example, here in People's 49?

15 A. Yes, it is.

16 Q. So just to be clear, this wire that you found on
17 the ground, it appeared to be similar to which wires?

18 A. The grounding wires that ran from the insulator
19 hardware up to the top, steel crossmember that connected
20 all three poles.

21 Q. And were there particular poles where you saw
22 this grounding wire?

23 A. Excuse me?

24 Q. Were they particular poles?

25 A. A, B and C.

26 Q. So on all three of them are you saying that they
27 had this wire?

28 A. With the exception of A. A was missing its wire.

1 B and C had the wire attached on the pole.

2 Q. That's what I wanted to clarify.

3 And with respect to where you saw the wires on B
4 and C, were they in the same approximate location on the
5 respective poles?

6 A. Yes, they were.

7 Q. And where you saw the absence of wire on pole A,
8 did that correspond to where you saw wires on B and C?

9 A. Yes.

10 Q. I'm going to show you --

11 Madam clerk, were People's 50 through 55 received
12 in evidence yesterday?

13 THE CLERK: Yes.

14 MR. HENNING: Thank you.

15 BY MR. HENNING:

16 Q. I'm going to show you People's 50. Do you
17 recognize what's depicted here?

18 A. Yes, I do.

19 Q. Can you describe what's depicted in People's 50?

20 A. This is the upper section of poles 02 A.

21 Q. And you were earlier describing an area on pole A
22 where there was no wire, where you had seen
23 corresponding wire on pole B and C. Is that area where
24 there was no wire depicted here in People's 50?

25 A. Yes, it is.

26 Q. Can you use that pointer to try to draw the
27 approximate area where there was no wire?

28 A. It went from here up to here (indicating).

1 Q. Okay. And I know this is not the best photo to
2 use, but is there any wire that's visible in that
3 approximate location on pole A?

4 A. Yes, there is.

5 Q. Can you try to use the pointer to point out where
6 there is wire that you see?

7 A. We located two cut ends of wire. The first one,
8 the bottom one was right here, and the top one was up in
9 this area.

10 Q. Okay. And I don't think -- do you have a pen up
11 there?

12 A. Yes, I do.

13 Q. Take your time, because I know this is a
14 difficult photo. But if you can, can you use a red
15 sharpie to circle those two areas that you just
16 described on People's 50?

17 A. (Indicating)

18 MR. HENNING: Your Honor, does the Court want
19 to see this up close?

20 THE COURT: Sure. Thank you.

21 Do you want to show that to counsel?

22 MR. HENNING: I will. Thank you.

23 BY MR. HENNING:

24 Q. The wires that you saw on pole A that you circled
25 on People's 50, did they appear to be similar in terms
26 of what -- the wire that's at the bottom that you
27 circled versus the wire that's at the top?

28 A. Yes.

1 Q. And I go back to People's 49. This wire that you
2 found on the ground, could you describe again for us
3 approximately where you found this wire in relation to
4 pole A?

5 A. Just at the base of it, within -- I believe it
6 was I would say about 12 feet. 12, 15 feet away from
7 the pole, within the general vicinity of pole A on the
8 ground.

9 Q. Okay. And I thought yesterday at some point you
10 mentioned 20 feet. Is there -- is that also within the
11 approximate range of where you found this pole?

12 A. Yes. It was right around that general vicinity
13 around the base of the pole.

14 Q. Okay. And you told us that the two wires that
15 you circled on People's 50, one near the bottom and the
16 one near the top, appeared to be similar to each other.
17 Did these two wires appear to be similar in any way to
18 the wire that you had found that's depicted in People's
19 49?

20 A. Yes.

21 Q. Yes, they did?

22 A. Yes.

23 Q. What about the amount of space there? The
24 distance between where you circled at the bottom and
25 circled at the top, did that appear in any way to
26 correspond to the length of wire that you found that's
27 depicted in People's 49?

28 A. Yes, it did.

1 Q. So having made this observation, or collected
2 this wire and made this observation with respect to pole
3 A, what did you do next?

4 A. We collected the wire. Left it in its original
5 form so not to bend it. We secured that in my vehicle
6 and then photographed it.

7 And when PG&E got there. They were there to
8 check on -- they were attempting to reenergize the lines
9 and do the repairs. We were unable to climb that pole
10 and gain access to the top of the pole to do a visual
11 inspection. We didn't have the equipment.

12 So when PG&E field personnel went up there to
13 make the repair, I had them photograph it in place. And
14 then when they went to go make the repair, they cut
15 those two ends that we have that I circled right there.
16 I had them wrap a piece of tape on it and put on the
17 bottom one B, on the top one T, on a piece of tape so we
18 could identify the top and bottom.

19 Additionally I had them put the tape near the
20 original broken end that he made a cut on both sections,
21 and he dropped them down separately to me in a bucket.
22 We took these out and sealed those up, so we had those
23 two ends also.

24 And then he proceeded to -- he took several other
25 more pictures, and then he replaced a wire that went
26 from those two locations. He put a new section of wire
27 in.

28 Q. Okay. So let's talk about -- you said PG&E, a

1 PG&E crew arrived at one point?

2 A. Yes.

3 Q. Is that the first day you got out there or a
4 later day?

5 A. I believe it was a later day.

6 Q. Okay. And when you say a later day --

7 A. It was the next day.

8 Q. Okay. So you first went out to the fire
9 September 25, 2016. The following day, September 26, a
10 PG&E crew is coming out?

11 A. Yes.

12 Q. And how did you know they were PG&E?

13 A. They identified themselves as PG&E. They were
14 driving PG&E trucks, they had PG&E clothing on, ID.
15 Yeah, they identified themselves as PG&E.

16 Q. Was there anything -- do you recall, was there
17 anything about the poles themselves that had any
18 markings to indicate that they were PG&E poles?

19 A. When we contacted PG&E, they acknowledged that
20 these were their poles, versus CalPine equipment that
21 was also near it.

22 Q. Okay. And so just to be clear, could you just
23 describe for the Court what CalPine is again?

24 A. CalPine is the electric company for the area up
25 there, that manages geothermal plants in that area also.

26 Q. Do they own multiple power plants up at the
27 Geysers?

28 A. Yes, they do.

1 Q. And you had mentioned yesterday for reference
2 this fire was in the vicinity of unit 5 and 6. Is that
3 a CalPine power plant?

4 A. I believe so.

5 Q. Okay. And so you described for us the PG&E crew.
6 They get there, and I believe you said they were there
7 to reenergize the line?

8 A. Yes.

9 Q. Were you there the entire time that the PG&E crew
10 was there?

11 A. Yes.

12 Q. Were you the only one taking photos that day?

13 A. I was taking photos, and an individual by the
14 name of I believe Keith Parker, who was with PG&E, he
15 was also taking photos. And I believe Mr. Fechter, who
16 was a lineman with PG&E, I gave him my camera and had
17 him take the camera up the pole, because I was not able
18 to go up to the top of the pole. He took it to the top
19 and took pictures for me.

20 Q. Is Fechter F-E-C-H-T-E-R?

21 A. Yes, it is.

22 Q. So you gave Mr. Fechter your camera and you
23 watched him climb this pole?

24 A. Yes, I did.

25 Q. Did you watch him take photos?

26 A. Yes, I did.

27 Q. Did you have an opportunity to review the
28 photographs taken by Mr. Fechter?

1 A. Yes, I did.

2 Q. While reviewing those photographs, did you
3 observe anything that you felt was significant to your
4 investigation regarding the Sawmill Fire?

5 A. Yes, I did.

6 Q. What was that?

7 A. When he -- may I show with the pointer?

8 Q. Sure. Yes, please. On People's 50.

9 A. While he was up there he took a photo while on
10 this side of the pole, facing this way, and took a
11 picture of the clamp that's on the insulator on this
12 conductor right here.

13 Q. Describe what was it about that photo that was
14 significant to your investigation?

15 A. What was significant about that photo is -- what
16 we see is an oxidized piece of conductor with new arc
17 marks. Freshly made arc marks along that that did not
18 have any oxidization, any weathering. They looked very
19 recent.

20 Q. All right. I'm going to show you a series of
21 photos. I'm going to start with -- some of these have
22 two photos on a page, so please take your time.

23 Starting with People's 51 -- first looking at
24 People's 50, can you describe how People's 51
25 corresponds to People's 50?

26 Let me try to move it up. I'm out of real
27 estate. Are you able to read that?

28 A. Yes. So describe the difference or the

1 similarities between 50 and 51, is what you're --

2 Q. Yeah. The photo we just looked at, People's 50,
3 are we looking at the same thing in People's 51?

4 A. Yes, we are.

5 Q. And I see on the bottom photo there's some print
6 superimposed?

7 A. Yes.

8 Q. You can't read that, so I'm going to approach.
9 Do you know how this print got on People's 51?

10 A. Yes.

11 Q. How?

12 A. I placed it there.

13 Q. Okay. And it looks like there's an orange line?

14 A. Yes, sir.

15 Q. Did you draw that line on there?

16 A. Yes, I did.

17 Q. Why? What does that signify?

18 A. I placed that yellow line on there where we
19 believe the missing portion of the wire we located on
20 the ground would have gone, due to its similar length,
21 and the span being a similar length also.

22 Q. Okay. And now I'm going to show you People's 52.
23 And your Honor, does the Court want to see 51?

24 THE COURT: No.

25 BY MR. HENNING:

26 Q. People's 52. Can you describe what we're looking
27 at depicted in People's 52?

28 A. On the top photo, it's the same line going

1 vertically along the pole, and then there's another line
2 that goes horizontally away from the pole back out to
3 the insulator. And we were able to establish that those
4 two lengths were approximately the same length, if not
5 -- they're within the length of the missing wire that we
6 found.

7 Q. Okay. And when you say out to the insulator,
8 which insulator?

9 A. The insulator in this photo, the one on the
10 right-hand side of the pole A.

11 Q. So you're pointing to the right-hand side of
12 People's 50?

13 A. Yes, right there.

14 Q. Is that the insulator where you reviewed some
15 photographs taken by Mr. Fechter?

16 A. Yes.

17 Q. And going backwards, showing you first People's
18 54, can you describe what we're looking at in People's
19 54?

20 A. In People's 54, we have two photos of the clamp
21 where the insulator meets the conductor. Just to the
22 left of the insulator we can see arc markings that
23 appear lighter in color on the gray conductor wire.

24 Q. And I'll talk about 53 in a couple moments.

25 Could you use the pointer to show us on -- and
26 you can choose which photo on People's 54 -- that
27 depicts these arc marks that you've described?

28 A. Right here (indicating).

1 Q. And also, I don't know if we've fully established
2 it yesterday, but what do you mean by arc mark?

3 A. Disturbances in the surface of the conductor, be
4 it -- it appeared to be almost as like a file was drug
5 across it, exposing bare metal.

6 Q. And what is arcing?

7 A. Arcing is when the -- two conductors and the
8 electricity passes between the two, as they pass over
9 the surface they -- kind of like arc welding. It
10 removes the surface. Heats up the metal and removes the
11 metal off the surface.

12 Q. Based upon your experience investigating
13 electric-caused fire, do you know whether arcing could
14 potentially produce sparks?

15 A. Yes.

16 Q. Yes, it does?

17 A. Yes it does.

18 Q. And what you just pointed out on People's 54, is
19 that insulator that's depicted, is that the same
20 insulator on the right, People's 50, that you pointed
21 out?

22 A. Yes, it is.

23 Q. And these are photos taken by the PG&E employee,
24 Mr. Fechter?

25 A. Yes, it is.

26 Q. Thank you.

27 And you described for us that you observed PG&E
28 -- this PG&E group of employees replace wire on pole A.

1 Could you describe for us, what did you see?

2 A. When they arrived, I instructed them that we were
3 going to allow them into the area and -- but there was
4 going to be some rules about how we proceed. They
5 weren't to touch evidence, they weren't to take photos.
6 A bit of an admonishment before they got there. But we
7 were going to allow them to conduct their work. And we
8 left them to their own devices. They made their repairs
9 without any direction from us.

10 Q. And I'm just asking about, you said you saw them
11 replace wire. What did you see in that regard?

12 A. They replaced the wire that we believe was
13 missing on pole A. They climbed the pole and replaced
14 the copper wire.

15 Q. Was it in that same area that we talked about
16 earlier?

17 A. Yes, it was.

18 Q. Where you had drawn an orange line on some of the
19 photos?

20 A. Yes, it was.

21 Q. Although you called it yellow.

22 Was there anything -- did you notice anything,
23 did anything catch your attention about how they secured
24 that wire when they replaced it on pole A?

25 A. Yes. After making their connections to the
26 original wires that they cut and dropped down to me,
27 they resealed it, put the wire back up on the pole and
28 then secured it back into the pole with horseshoe nails.

1 Q. I'm going to show you People's 53. And let's
2 just start quickly at the top. What is the top photo
3 depicting?

4 A. The top photo is depicting -- I believe it's pole
5 B and C.

6 Q. Okay. From what vantage point do you believe
7 this photo was taken?

8 A. From pole A.

9 Q. And then talking about the bottom photo, you had
10 talked about the use of, I think you said horseshoe
11 nails. Are those depicted in the bottom photo on
12 People's 53?

13 A. Yes, they are.

14 Q. Could you use the pointer to identify them?

15 A. (Indicating) one right there and one right there.

16 Q. Okay. And did you -- so they're there, they're
17 replacing wire. They're using these nails.

18 There's only two depicted here. Do you recall
19 whether they used only two or more than two?

20 A. They used several more. Approximately probably
21 five or six going up the pole.

22 Q. And did you see, were there any other nails,
23 horseshoe nails that appeared to already be in place on
24 pole A?

25 A. In the missing span, no. On the lower portions,
26 yes.

27 Q. So when you say the lower portion, going back to
28 People's 50, it's not the best lighting, but can you use

1 the pointer to show us where you saw a horseshoe nail?

2 A. Right on the little section of wire that came off
3 this hardware and came up. There was a horseshoe nail
4 on that piece.

5 Q. Okay. And in terms of ascending upward from that
6 point, any other horseshoe nails?

7 A. No, there were not.

8 Q. Did you have an opportunity to look at poles B
9 and C to see whether there were any horseshoe nails?

10 A. Yes.

11 Q. Were there?

12 A. Yes.

13 Q. If you can, can you approximate how many
14 horseshoe nails were holding the wires in place on pole
15 B and C?

16 A. Approximately 12 to 15 going up the pole.

17 Q. On each or total?

18 A. From -- if we were looking at pole B and C from
19 here up, approximately 12.

20 Q. So that's 12 on each, approximately?

21 A. I would say so, yeah. Probably six up one, six
22 up another.

23 Q. Okay. Did you find -- did you look for any
24 horseshoe nails on the ground?

25 A. Yes, we did.

26 Q. Were you able to find any?

27 A. Yes.

28 Q. Okay. How many did you find?

1 A. I believe I remember seeing two or three on the
2 ground that were oxidized.

3 Q. What do you mean by that, "they were oxidized"?

4 A. Rusty.

5 Q. And to assist you in this investigation, did you
6 at any point use lidar technology?

7 A. Yes, I did.

8 Q. Can you describe how you used lidar technology?

9 A. So we used our department's survey crew. They
10 came out and they had the lidar. And they also did the
11 surveying for us. They marked out all of our fire
12 spread indicator flags with surveying and they
13 incorporated that into the lidar technology. And they
14 did a lidar model of the three poles and the adjacent
15 area around it.

16 Q. Were you a part of that process?

17 A. Yes, I was.

18 Q. Describe what role you played.

19 A. Well, I don't run the equipment. I usually give
20 them direction on the parameters I want. I'll usually
21 tell them I want from point A to point B, and this way
22 point A to point B, and I establish the grid they're
23 going to work in and tell them what I want captured, and
24 basically their goal for the day.

25 Q. Using what's captured by lidar were you able to
26 generate any images?

27 A. Yes, I was.

28 Q. Did you participate in the generation of lidar

1 images?

2 A. Yes, I did.

3 Q. I'm going to show you People's 55. Do you
4 recognize People's 55?

5 A. Yes, I do.

6 Q. What is this?

7 A. This is a lidar product that was produced by Cal
8 Fire depicting a sphere around the pole.

9 Q. Okay. Can you describe for us, orient us, what
10 are we looking at in this exhibit?

11 A. In this photo we're looking down on top of the
12 pole with -- may I use the stick?

13 Q. Please. Yes.

14 A. So what we have here, these are the metal
15 crossmembers --

16 Q. Can you stand on the other side of the TV?

17 A. So we have the metal crossmembers, then we have
18 pole A right here. And then we have the insulator that
19 runs down off of the crossmember, and then we have the
20 jumper.

21 The lower broken wire, that's where we placed
22 this crosshair on. And then we took the length of the
23 wire. So from the crosshair out to the edge of the
24 sphere is the length of the wire.

25 And where -- what we did is we measured that
26 distance to show that if that wire had broken and fallen
27 over, where that edge is right here would be the edge of
28 that sphere. So anything -- that wire could

1 theoretically wrap 360 degrees around that pole, and
2 anything within that sphere would be the area of
3 influence where it could touch something. And basically
4 it showed anything that entered that sphere would be
5 touched by that wire.

6 Q. And so the insulator that's depicted inside the
7 sphere of this exhibit, is that the same insulator that
8 Mr. Fechter took pictures of where you observed arc
9 marks, arcing?

10 A. Yes, it was.

11 Q. So having gathered all the evidence related to
12 Sawmill, were you able to form a conclusion as to how
13 that fire started?

14 A. Yes, I was.

15 Q. What was that?

16 A. That at an unknown time the wire that was missing
17 was originally -- that wire was originally attached to
18 pole A. At an unknown time the staples came off and
19 that wire was able to start getting blown around by the
20 wind.

21 While it was getting blown around by the wind, it
22 broke from the top and after it broke from the top it
23 laid over. As it laid over, it kept getting blown in
24 the wind, blown in the wind, back and forth.

25 After a significant time as it bent over it bent
26 over towards the insulator. And when we had the wind
27 event during the incident, it finally pushed it over
28 enough to where it contacted the conductor. And when it

1 contacted the conductor it energized the ground wire.
2 And the electricity ran down the ground wire and then
3 back into the anchor wires that come off the pole.

4 It energized one of the anchor wires and went
5 down, and we see arcing at the bottom of the pole.
6 That's one of the fires. And then when it actually
7 touched the conductor, that produced sparks. Those
8 sparks were emitted, blew out onto the ground around the
9 pole, creating multiple spot fires.

10 Q. I want to make sure I understand you.

11 You saw -- one of the origins, the specific areas
12 you were able to identify was the bottom of an anchor
13 point?

14 A. Yes, it was.

15 Q. And describe for us how did that anchor point
16 connect to where that missing wire would have been?

17 A. The crossmembers and then the hardware on the
18 non-energized side of the insulators are all linked
19 together. They're grounded.

20 Q. Let me show you --let's back up. Does People's
21 50 help you describe how that would have happened?

22 A. Yes. May I?

23 Q. Please.

24 A. So on poles B and C we have the metal crossbeam.
25 There's an anchor wire -- or correction -- a ground wire
26 that runs off the bolt and it's stapled to the pole.
27 Runs down, and it's connected into this hardware that
28 secures the insulator string. And then it comes off of

1 that again and connects into this anchor wire. These
2 are I-bolts that run continuously through the pole, so
3 they're grounded on both sides. There's only one wire,
4 but it's captured on both sides.

5 So when this wire, this wire that was here, it
6 leaned over, contacted the conductor here, it
7 reenergized, sent electricity back through, hit the
8 ground wire and traveled through the ground wire, and
9 then it reenergized this line going back down to the
10 ground. This line is 45 coming off the pole going to
11 earth, and a steel anchor in that.

12 We were able to find arcing on that steel anchor
13 from where it exited the anchor and went to ground.

14 Q. It looks like there's some discoloration on the
15 pole in the area where that wire would have been. Did
16 you -- what if any significance did you assign to that
17 to your investigation?

18 A. It left shadowing with respect to whenever we
19 leave exposed copper to the elements, copper oxidized at
20 a fairly rapid rate. When it does that it leaches into
21 the object.

22 So what we're seeing here is the leaching from
23 the copper onto the pole as it ran down. As it rains it
24 oxidizes, and it will stain the pole after a while.

25 Q. You talked about this PG&E crew that was out
26 there. Approximately how many PG&E personnel were there
27 that day?

28 A. I believe about four.

1 Q. What if any information did you share with them
2 regarding your investigation?

3 A. Not much. We allowed them to go in there. There
4 was some concern about them reenergizing the pole. We
5 were still working under it, so we discussed some safety
6 issues with that. Their main concern was to make the
7 repairs and get it reenergized.

8 Q. What about the findings and conclusions of your
9 investigation? What if anything did you share with
10 those PG&E personnel?

11 A. At that point I believe we did discuss that there
12 is -- it was pretty open between the two groups, and
13 they talked to us about the missing wire. That that
14 wire was from the pole. And this was a discussion about
15 the repairs that they made. It was pretty obvious when
16 we were sitting there talking about it. They went up
17 and made the repairs and came back down.

18 Q. I just want to understand, because you just said
19 not much. Did you explain to them your understanding of
20 what caused this fire?

21 MR. KRAVIS: Objection. Leading.

22 THE COURT: Overruled.

23 THE WITNESS: Yes. There was discussion about
24 how it happened and the possibilities of it could have
25 fallen over. Because there was issues of trying to look
26 at it up in the air. We were having a hard time
27 determining distance with respects to just with the
28 distance. We couldn't tell was it 24 inches or was it

1 36 inches. So that's why we had to use lidar. But we
2 were asking was there a possibility this could have
3 happened, and they said yes.

4 BY MR. HENNING:

5 Q. So you're discussing a possibility of what
6 falling over?

7 A. Of that wire falling off the pole. The wire we
8 located on the ground.

9 Q. So later you were able to confirm that using
10 lidar, but you didn't have that benefit when you were in
11 the field that day?

12 A. Correct.

13 Q. But in terms of this wire bending over, causing
14 the fire, was that shared with PG&E?

15 A. At a later date. Not during when we talked to
16 them about it, the field guys, and they said, yeah, we
17 should go, that was something we could have fixed.

18 Q. So what do you mean, at a later date?

19 A. After the repairs were done, we could have gone
20 up there, we need to fix this and make sure the staples
21 were in it.

22 Q. So what did you actually tell them on that day
23 regarding your findings, your opinions regarding the
24 cause of the Sawmill Fire?

25 A. That we made sure that those wires are secured.

26 Q. Okay. Making sure the wire --

27 A. The ground wire that goes up.

28 Q. Okay. Is that all you said? "Make sure these

1 wires are secured." Or did the conversation go beyond
2 that?

3 A. I don't believe it went beyond that.

4 Q. So is that the only thing you said that day?
5 "Make sure these wires are secured"?

6 MR. KRAVIS: Objection. Asked and answered.

7 THE COURT: Sustained.

8 THE WITNESS: No, when we talked about it --

9 MR. KRAVIS: Objection. There's no question
10 pending.

11 THE COURT: You need to wait.

12 THE WITNESS: I apologize.

13 THE COURT: It's all right.

14 BY MR. HENNING:

15 Q. You -- the photos that Mr. Fechter took for you,
16 what direction was provided, in terms of what photos he
17 should take?

18 A. When Fechter was going to climb up there I asked
19 him to go up there, take photos before he makes any --
20 altering the pole and then afterwards. He went up, took
21 some photos, and he lowered it back down to me -- the
22 camera -- for my review.

23 Q. I can't hear you.

24 A. I said he took several photos with my camera and
25 then lowered them back down to me in his little bucket.

26 Q. Was there any direction provided of to take
27 photos of these insulators?

28 A. No, I just told him to go up there and take

1 photos of the top of the pole for me of the area. I
2 wanted to see if there was --

3 Q. Okay. So going back to People's 54, these are
4 photos that -- just to be clear, these are photos that
5 Mr. Fechter took?

6 A. Yes, they are.

7 Q. And in terms of, you know, the one on the bottom
8 appears to be zoomed in the same area as the one on the
9 top.

10 A. Yes.

11 Q. Did you give any direction to zoom in on certain
12 photos?

13 A. No, I did not.

14 Q. Okay. You just said, take photos at the top of
15 the pole.

16 A. Yes.

17 Q. In your experience -- in your experience as a
18 fire investigator, what if any similarities did you draw
19 between the Sawmill Fire and the Kincade Fire?

20 A. Geographical location was and positioning on the
21 slope were very similar, in regards to that. They were
22 both on spur ridges, which exposed the equipment to
23 higher than normal weather conditions. Their abuse out
24 there by the wind.

25 Additionally, they had south-facing slopes, which
26 also had fuel type with a lower than normal fuel
27 moisture because it's exposed to the sun all day long,
28 versus on the northern side, which would be in the

1 shade.

2 Additionally, because of the wind we noticed
3 there was low cycle fatigue issues with the wind beating
4 up the equipment. In regards to low cycle fatigue, we
5 believe the wires came loose on the Sawmill Fire and
6 contacted that -- we believe that was due to low cycle
7 fatigue, and also low cycle fatigue was an issue with
8 the Kincade.

9 Q. Did you -- how close were these locations? The
10 location of the Sawmill Fire versus the Kincade Fire?

11 A. Approximately three miles.

12 Q. Okay. I'm going to walk up with People's 56.

13 Can you describe for us what we're looking at --
14 what you're looking at in People's 56?

15 A. Looking at an overview photo of the Geysers.

16 Q. Does People's 56 depict the location of both the
17 Sawmill and Kincade fires?

18 A. Yes, it does.

19 Q. And could you mark with an S the approximate
20 location of Sawmill and with a K the approximate
21 location of the Kincade Fire?

22 A. Do you care which color?

23 Q. Whatever you think will show up best.

24 Can you point out for us using the pointer where
25 you drew the S for Sawmill?

26 A. (Indicating)

27 Q. And where is the K that you drew for Kincade?

28 A. (Indicating)

1 Q. And that distance as the crow flies you said is
2 approximately three miles?

3 A. Yes, sir.

4 MR. HENNING: May I just have a moment?

5 THE COURT: Yes.

6 MR. HENNING: Thank you, your Honor. I don't
7 have any further questions.

8 THE COURT: Okay. Thank you, Mr. Henning.

9 Counsel, I don't know if the bailiff shared
10 with you, we're going to take a recess around 10:55.

11 MR. KRAVIS: He did. Thank you, your Honor.

12 MR. BRIAN: Your Honor, while we have a break,
13 this morning before we started you modified your
14 exclusion order. Properly, I might add, but one issue
15 for possible exception. Did your Honor intend to except
16 from that any expert witnesses? In other words, is it
17 appropriate to show the transcript to an expert who
18 would be testifying?

19 THE COURT: That would make sense to the Court.
20 Do you want to be heard on that?

21 MR. HENNING: That's fine.

22 THE COURT: So, yes, with that exception.
23 Thank you for clarifying that.

24 CROSS-EXAMINATION

25 BY MR. KRAVIS:

26 Q. Good morning, sir.

27 A. Good morning.

28 Q. What should I call you? Mr. or captain or

1 officer?

2 A. Mr. is fine.

3 Q. Mr. Uboldi, yesterday you testified on direct
4 examination about the wind that you experienced on the
5 night of the Kincade Fire. Do you remember that?

6 A. Yes, I do.

7 Q. And I think what you said was that the wind was
8 significantly stronger than other times that you had
9 been to the Geysers, is that right?

10 A. Yes, sir.

11 Q. You said your vehicle was actually rocking back
12 and forth?

13 A. Yes, it was.

14 Q. You said it was difficult to open your car door
15 because of the wind?

16 A. Yes, it was.

17 Q. You said that at times it was even difficult just
18 to stand up straight because of the wind?

19 A. Yes, it was.

20 Q. I think you said on one occasion you had to grab
21 hold of a chain link fence to keep from getting blown
22 down the hill?

23 A. Yes, it was.

24 Q. Now, you had been to the Geysers area before, is
25 that right?

26 A. Yes.

27 Q. Had you been there many times?

28 A. Yes.

1 Q. You had never experienced wind this strong in the
2 Geysers as the wind that you experienced on the night of
3 the fire, is that right?

4 A. That's correct.

5 Q. Would it be fair to say that from your experience
6 this was an unprecedented level of wind in the Geysers?

7 A. I had never seen wind like that, you're correct.

8 Q. By the way, did you also testify on direct
9 examination that on the night of the fire you looked
10 down the line and saw other insulators on other towers
11 moving in the wind?

12 A. No. I believe I was talking about the conductors
13 themselves.

14 Q. The conductors. Got it.

15 Had you ever been to this tower, tower 1 over 6
16 before the night of the Kincade Fire?

17 A. No.

18 Q. So the first time that you saw this tower, tower
19 1 over 6 and the configuration on the tower, it was on
20 the night of the Kincade Fire?

21 A. Yes.

22 Q. And that was the night of the strongest winds
23 that you had ever encountered in the Geysers, is that
24 right?

25 A. Yes.

26 Q. Now, I think you testified on direct examination
27 that you went back to Geysers 9-10 in the days after the
28 Kincade Fire. Do I have that right?

1 A. Yes.

2 Q. And in the days after the Kincade Fire, you had
3 an opportunity to observe the power plant that is next
4 to tower 1 over 6, is that right?

5 A. Yes.

6 Q. I believe on your direct examination, you refer
7 to that power plant as Fumarole 9-10, is that right?

8 A. That is correct.

9 Q. Is Geysers 9-10 another name for that power
10 plant?

11 A. I believe so.

12 Q. And I think you testified that that power plant
13 is owned by a company called CalPine, is that right?

14 A. I believe so.

15 Q. It's C-A-L-P-I-N-E? Did I spell that correctly?

16 A. Yes.

17 MR. KRAVIS: Okay. Could we have People's
18 Exhibit 5, please?

19 BY MR. KRAVIS:

20 Q. Mr. Uboldi, this has been marked and admitted
21 into evidence as People's Exhibit 5. I think you were
22 asked some questions about this photo on direct
23 examination yesterday. Do you remember that?

24 A. Yes, I do.

25 Q. This is a photo of the power plant, right?
26 Fumarole 9-10 or Geysers 9-10?

27 A. Yes.

28 Q. And by the way, this is a view of the power plant

1 from the tower, is that right?

2 A. General vicinity, yes.

3 Q. So if I were a PG&E inspector, let's say, going
4 out to look at tower 1 over 6 and I were looking in the
5 direction of the power plant, this is basically what I
6 would see, right?

7 A. Yes.

8 Q. You see that big thing in the front there? It's
9 like a big sort of barrel with some legs on it, and it's
10 got some insulators, some insulators or coils coming out
11 of it?

12 A. Yes, I do.

13 Q. What is that?

14 A. I'm not -- I do not know.

15 Q. You don't know what that is?

16 A. I know it's some type of power plant equipment.

17 Q. That's a high voltage circuit breaker, isn't it?

18 A. Is it? I don't know, sir.

19 Q. It's like a fancy version of the fuse box you
20 have in your house, right?

21 A. I cannot identify it. I'm not that savvy with
22 their equipment.

23 Q. For a power plant that was connected to a
24 transmission line, this piece, this high voltage circuit
25 breaker, this would be an essential piece of equipment,
26 right?

27 MR. HENNING: Objection. Foundation.

28 THE COURT: Sustained.

1 BY MR. KRAVIS:

2 Q. How about the thing behind the high voltage
3 circuit breaker? That big sort of gray thing behind it.
4 What's that?

5 A. Big gray box, I can't --

6 MR. HENNING: I'm going to object as vague. I
7 see a lot of gray things behind it.

8 THE COURT: Sustained.

9 MR. KRAVIS: May I approach the screen?

10 THE COURT: You may. You have freedom to use
11 the well.

12 BY MR. KRAVIS:

13 Q. Sir, I am using the pointer now to point to a
14 large gray box that appears behind the high voltage
15 circuit breaker in the bottom left-hand corner of
16 People's Exhibit 5. Do you see where I'm pointing?

17 A. Mm-hmm.

18 Q. Is that a yes?

19 A. Yes, it is.

20 Q. That piece of equipment that I was just pointing
21 to, that's a transformer, isn't it?

22 A. I don't know if it is.

23 Q. That costs about \$1.3 million, doesn't it?

24 MR. HENNING: Objection. Lacks foundation.

25 THE COURT: Sustained.

26 BY MR. KRAVIS:

27 Q. And to be clear, all of this equipment that we
28 see in this photo, it was all there when you went out to

1 look at Geysers 9-10 in the days after the Kincade Fire,
2 right?

3 A. Yes.

4 Q. And behind that equipment, behind the high
5 voltage circuit breaker and the transformer --

6 THE COURT: Counsel, you keep referring to
7 those things by their names as if there's evidence
8 that's what they are. There's not.

9 MR. KRAVIS: Thank you, your Honor.

10 BY MR. KRAVIS:

11 Q. Behind the piece of equipment that I was pointing
12 to a moment ago with the pointer, there is a large pale
13 gray structure. Do you see that?

14 A. The large building in the background?

15 Q. Yes.

16 A. (Witness nods head)

17 Q. That's the main building for the power plant,
18 isn't it?

19 A. I believe so.

20 Q. And that building was still there when you went
21 out to look at it on the days after the Kincade Fire, is
22 that right?

23 A. Yes.

24 Q. Now, this power plant, Geysers 9-10, this is a
25 geothermal power plant, right?

26 A. Yes.

27 Q. And a geothermal power plant uses wells to
28 produce steam that gets turned into energy, right?

1 A. Yes.

2 Q. As of October 2019, the time of the Kincade Fire,
3 the wells, the steam wells at Geysers 9-10, they were
4 still there, weren't they?

5 A. Yes.

6 Q. Okay. Now you testified yesterday on direct
7 examination about the configuration of the tower, tower
8 1 over 6. Do you remember that?

9 A. Yes, I do.

10 Q. And in particular, you testified about the
11 configuration of the Geysers 9 Lakeville side of the
12 tower, right?

13 A. Yes.

14 Q. And I think you testified that you thought that
15 the configuration of that side of the tower was odd. Do
16 you remember saying that?

17 A. Yes.

18 Q. I want to ask you some questions about that now.
19 When you worked at Cal Fire, part of your
20 responsibilities was investigating fires, is that right?

21 A. Yes.

22 Q. And that could be fires caused by anything, it's
23 not just electrical equipment fires, right?

24 A. Correct.

25 Q. I think you testified yesterday that in your
26 career at Cal Fire, you worked on or were the lead
27 investigator for approximately 15 to 20 fires involving
28 electrical lines, is that right?

1 A. That is correct.

2 Q. Have you ever worked in the electrical industry?

3 A. No.

4 Q. Have you ever received any training on the
5 construction of high voltage transmission towers?

6 A. No.

7 Q. During your investigation into the Kincade Fire,
8 did you look at any industry standards on transmission
9 line configuration?

10 A. I have read the GO 95s. The general order 95s.

11 Q. You're talking about the general orders, right?

12 A. Yes, sir.

13 Q. The general orders are orders issued by the CPUC,
14 right?

15 A. Yes, sir.

16 Q. I'm asking you about industry manuals or industry
17 guidance on the construction of transmission lines. Did
18 you look at any of those?

19 A. No, sir.

20 Q. Are you aware that there are entire volumes that
21 address the impact of wind-induced motion on
22 transmission lines?

23 A. I'm aware there's literature out there, yes.

24 Q. Have you ever heard of something called the
25 orange book?

26 A. I believe so. I've heard of that before.

27 Q. Do you know who publishes the orange book?

28 A. No, sir.

1 Q. Do you know what its real title is?

2 A. No, sir.

3 Q. If I used the phrase Transmission Line Reference
4 Book, Wind-Induced Conductor Motion, does that ring a
5 bell with you at all?

6 A. Possibly if I saw it. I'm aware of the orange
7 book. I wasn't aware of the full title.

8 Q. Could you say that last part?

9 A. I wasn't aware of the full title.

10 Q. In the course of your investigation into the
11 Kincade Fire, did you consult the orange book?

12 A. No.

13 Q. Have you ever heard of something called the green
14 book?

15 A. I've heard of the green book, yes.

16 Q. Do you know what the full title of the green book
17 is?

18 A. No, sir.

19 Q. It's called Overhead Lines, published by the
20 International Counsel on Large Electric Systems.

21 Does that ring a bell for you?

22 A. Yes, vaguely.

23 Q. In the course of your investigation into the
24 Kincade Fire, did you consult the green book?

25 A. No.

26 Q. So is it fair to say that you cannot point to any
27 industry standard or industry manual or industry
28 guidance that says there was anything wrong with the

1 setup of tower 1 over 6?

2 A. Could you repeat that?

3 Q. Yes.

4 Would it be fair to say that you cannot point to
5 any industry standard or industry manual or industry
6 guidance that says there was anything wrong with the
7 setup of tower 1 over 6?

8 MR. HENNING: Lacks foundation.

9 THE COURT: Overruled.

10 THE WITNESS: I did not refer to the manual.

11 BY MR. KRAVIS:

12 Q. And would it be fair to say that you cannot point
13 to any industry standard or industry manual or industry
14 guidance that would have called for a different
15 configuration of the jumpers on tower 1 over 6?

16 A. No.

17 Q. You mean it would be fair to say or would not be
18 fair to say?

19 A. I did not consult the manual.

20 Q. I'd like to talk with you now about PG&E's own
21 guidance for jumper construction.

22 Could we please have document or tab 48? This
23 has been marked for identification as Defense Exhibit M,
24 like Mary.

25 Sir, do you recognize this document?

26 A. No.

27 Q. This is the overhead transmission line design
28 criteria published by PG&E, isn't it?

1 A. I believe so.

2 Q. And the date on this document is August 15, 2017?

3 A. That's what it says.

4 Q. Now, the jumper that failed on tower 1 over 6,
5 that was part of an overhead transmission line, wasn't
6 it?

7 A. Yes.

8 Q. I'd like to direct your attention now to page 11
9 of the document.

10 Do you see at the top there the heading reads
11 Insulation Criteria?

12 A. Yes.

13 Q. I'd like to direct your attention to the fourth
14 paragraph in this section titled Insulation Criteria.
15 It reads, "For all wood and steel construction, jumper
16 support insulator strings shall be installed on dead-end
17 loops to restrain the conductor during high wind
18 conditions."

19 Did I read that right?

20 A. Yes.

21 Q. Now, you would agree with me, would you not, that
22 tower 1 over 6 is a steel construction, right?

23 A. Yes.

24 Q. And the jumper cables on the tower are what this
25 standard refers to as dead-end loops, right?

26 A. I believe so.

27 MR. HENNING: Objection. Foundation.

28 THE COURT: Sustained. You can ask him whether

1 he's familiar with the term.

2 BY MR. KRAVIS:

3 Q. Are you familiar with the term dead-end loops?

4 A. Yes.

5 Q. Would you consider the jumper cables on tower 1
6 over 6 to be dead-end loops?

7 A. I've heard them called that, yes.

8 Q. So according to the standard, the jumpers on
9 tower 1 over 6 needed jumper support insulator strings,
10 right?

11 A. Could you repeat that?

12 Q. Yes.

13 According to the sentence that we just looked at
14 in the fourth paragraph, a steel construction -- or a
15 steel construction like tower 1 over 6, the jumper --
16 the dead-end loops needed jumper support insulator
17 strings, right?

18 A. Correct.

19 Q. And in particular, the jumper support insulator
20 strings are specifically installed to restrain the
21 conductor in high winds, right? High wind condition?

22 A. I believe so.

23 Q. I want to direct your attention now to the second
24 paragraph under Insulation Criteria. And the first
25 sentence of the second paragraph reads, "For suspension
26 and dead-end insulator strings, porcelain or glass
27 insulators are the preferred construction material."

28 Did I read that right?

1 A. Yes.

2 Q. Have you ever seen in person porcelain insulator
3 strings?

4 A. Yes.

5 Q. They're like really heavy, right?

6 A. Yes, they are.

7 Q. Now I would like to show you what's been marked
8 for identification as Defense Exhibit N, like Nancy.

9 And this is going to be document 71, please.

10 Mr. Uboldi, this is a photo of the jumper cables
11 on tower 1 over 6, is it not?

12 A. Without other geographical reference, I can't
13 say. I believe they are. They look the same
14 construction.

15 Q. The loop along the -- in the bottom middle --
16 actually, let me start over.

17 May I approach?

18 THE COURT: You may.

19 BY MR. KRAVIS:

20 Q. Mr. Uboldi, I'm using the pointer now to direct
21 your attention to a brown wire running across the bottom
22 middle of the exhibit.

23 Do you see where I'm pointing?

24 A. Yes, I do.

25 Q. That's the jumper cable or dead-end loop along
26 the bottom, right?

27 A. Affirm.

28 Q. And on the right-hand side, the vertical line of

1 white discs or circles, that's a jumper support
2 insulator string, isn't it?

3 A. Yes.

4 Q. And the insulator string on tower 1 over 6, that
5 was made of porcelain, right?

6 A. Yes.

7 Q. So tower 1 over 6 met PG&E's standard for
8 overhead transmission line design criteria that we just
9 looked at, right?

10 MR. HENNING: Objection. Lacks foundation.

11 THE COURT: Sustained.

12 BY MR. KRAVIS:

13 Q. Mr. Uboldi, you've been to tower 1 over 6, right?

14 A. Yes, sir.

15 Q. Did it have jumper support insulator string on
16 it?

17 A. Yes, it did.

18 Q. Was the jumper support string on tower 1 over 6
19 made of porcelain?

20 A. Yes, it was.

21 Q. Mr. Uboldi, are you aware of any industry
22 guidance, industry manuals, industry reference materials
23 that recommend the use of jumper support insulator
24 strings to reduce wind sway on jumpers?

25 A. No, sir.

26 Q. So PG&E's guidance that we looked at a moment ago
27 actually exceeds the standards in the industry, right?

28 MR. HENNING: Objection. Argumentative.

1 THE COURT: It also lacks foundation.

2 BY MR. KRAVIS:

3 Q. Now, Mr. Uboldi, tower 1 over 6 was routinely
4 inspected by PG&E, right?

5 A. Per their records, yes.

6 Q. And you reviewed some of those inspection records
7 as part of your investigation, did you not?

8 A. Yes.

9 Q. In fact, you included several inspection forms as
10 attachments to your report on the Kincade Fire, is that
11 right?

12 A. Yes.

13 Q. One of the reports that you attached was from an
14 inspection that took place in February of 2019, is that
15 right?

16 A. I believe so.

17 Q. And that was inspection of tower 1 over 6, right?

18 A. I believe so.

19 Q. It was an inspection that was conducted in
20 February of 2019?

21 A. Yes.

22 Q. And that was -- February 2019 would have made it
23 a little over nine months before the Kincade Fire, is
24 that right?

25 A. Correct.

26 Q. And that February 2019 inspection, that was
27 actually a climbing inspection, right?

28 A. I believe so.

1 Q. A climbing inspection means that the inspector
2 actually like climbs up the tower to inspect it, right?

3 A. That's what I've seen them do before, yes.

4 Q. And as part of the inspection, PG&E looked at the
5 conductors, right?

6 A. That's what it says in the report, yes.

7 Q. And the inspection report from February 2019
8 noted no problems with the conductor, right?

9 A. I believe that's what that report said, yes.

10 Q. And the February 2019 inspection report noted no
11 problems with the jumpers, right?

12 A. I believe that's what the report said, yes.

13 Q. You also attached to your report of the Kincade
14 Fire a report of a drone inspection from May of 2019, is
15 that right?

16 A. Yes.

17 Q. So this would have been between five and six
18 months before the Kincade Fire, is that right?

19 A. Yes.

20 Q. And the May 2019 inspection report says that it
21 also looked at the conductors on the tower, right?

22 A. I believe so.

23 Q. And the May 2019 inspection report noted no
24 problems with the conductors, right?

25 A. I believe that's what the report stated.

26 MR. HENNING: Your Honor, all these answers I'm
27 going to object as non-responsive, and I'm going to ask
28 -- if he needs to refresh his recollection he should

1 request that.

2 THE COURT: Well, so far he stated he believes
3 so, which would be affirmative, so I'll overrule the
4 objection. If he needs to refresh his recollection,
5 you're welcome to let us know.

6 BY MR. KRAVIS:

7 Q. Yes, Mr. Uboldi, if at any point during these
8 questions you would like to see the inspection form that
9 was attached to your report, please let me know.

10 A. I'd love to, please.

11 MR. KRAVIS: May I approach the witness?

12 THE COURT: Yes, you may.

13 BY MR. KRAVIS:

14 Q. Mr. Uboldi, I'm handing you what has been marked
15 for identification --

16 And these exhibits have been shown to the People.

17 THE COURT: Thank you.

18 BY MR. KRAVIS:

19 Q. -- what has been marked for identification as
20 Defense Exhibit O, like ostrich, and Defense Exhibit P,
21 like Peter. Do you have those in front of you?

22 A. Yes, I do.

23 Q. Great. Let me direct your attention first to
24 Defense Exhibit O. And I'm going to ask you to turn to
25 page 14 of the exhibit.

26 Do you see that starting on page 14 there's a
27 heading that says Conductor Hardware Insulators? Do you
28 see that?

1 A. There's two sets of page numbers here. That's
2 why.

3 On the bottom of the page it says DOC 64-618.

4 Q. It should say DA - Kincade - 617.

5 MR. HENNING: I think it's a page before.

6 BY MR. KRAVIS:

7 Q. In the very bottom right corner there should be a
8 notation that says doc 64-617. Do you see that?

9 A. Yes.

10 Q. And you see where it says Conductor Hardware
11 Insulators?

12 A. Yes, I do.

13 Q. Could you please take a look at that page and the
14 next page? Don't say anything. Just take a look at
15 them, and then go ahead and look up at me after you've
16 had a chance to review them.

17 Did reviewing those two pages of the exhibit
18 refresh your recollection as to whether the February
19 2019 inspection included an inspection of the
20 conductors?

21 A. Yes.

22 Q. Did it?

23 A. Yes.

24 Q. Did it --

25 A. Sorry.

26 Q. It's okay. Did the February 2019 inspection
27 include an inspection of the conductors?

28 MR. HENNING: Calls for speculation as phrased.

1 He can testify what's in the report, but he wasn't
2 there.

3 THE COURT: Sustained.

4 BY MR. KRAVIS:

5 Q. Did looking at the document refresh your
6 recollection as to whether the inspection report from
7 February 2019, that you reviewed and included as an
8 attachment to your own report, whether that inspection
9 report noted the inspection of the conductors?

10 A. Yes.

11 Q. And did looking at the document refresh your
12 recollection as to whether the February 2019 inspection
13 report noted any problems with the jumpers or the
14 conductors?

15 A. Per the documents, does not note any issues with
16 the conductors or jumpers.

17 Q. Now I'd like you to turn to the next exhibit I
18 handed you. P like Paul. And I would like to direct
19 your attention to the page of the document, the fifth
20 page of the document, which should bear the label doc
21 64-597 in the bottom right. Do you see that?

22 A. Yes, I found it.

23 Q. Could you see the section that begins
24 "conductor"?

25 A. Yes.

26 Q. Can you review that for me, please, and then look
27 up at me when you finish.

28 Does that section of the document refresh your

1 recollection as to the scope of the May 2019 inspection
2 as reported in the inspection report?

3 A. Yes.

4 Q. Did the inspection report say that the inspection
5 looked at the conductors?

6 A. It doesn't state they looked at the conductors.
7 It just states that their, for instance, conductors were
8 in poor condition.

9 Q. And the May 2019 inspection report reports that
10 the conductors were not in poor condition. That's what
11 the report says, right?

12 A. Yes.

13 Q. And it says the jumpers were not in poor
14 condition, correct?

15 A. Yes.

16 MR. HENNING: I'm going to object. It's just
17 not what I'm reading on the document.

18 THE WITNESS: Correction. It says not
19 applicable.

20 THE COURT: So the objection is overruled, but
21 the witness's answer will stand.

22 BY MR. KRAVIS:

23 Q. Mr. Uboldi, am I correct that the May 2019
24 inspection report also reported no visual damage on the
25 conductors?

26 A. No.

27 Q. Can I ask you to turn to the next page of the
28 document, doc 64-598 in the bottom right-hand corner.

1 Do you see that?

2 A. Yes.

3 Q. Can you take a look at the top left section of
4 that page, and then look up at me.

5 Does that refresh your recollection as to whether
6 the May 2019 inspection report reported no visual damage
7 to the conductors?

8 A. Yes, as represented as condition code 1.

9 Q. What is condition code 1?

10 A. No visual damage.

11 Q. Your office also received inspection reports from
12 PG&E for the years 2014 through 2019 for the two
13 transmission lines that run into tower 1 over 6, right?

14 A. I believe so.

15 Q. Did you review those?

16 A. I'd have to see the documents myself to confirm.

17 THE COURT: Mr. Kravis, would this be a good
18 moment to take a recess?

19 MR. KRAVIS: Yes. Thank you, your Honor.

20 THE COURT: Let's take our 15 minute morning
21 recess. We'll resume at 10 minutes after the hour.

22 MR. BRIAN: Your Honor, may we have a standing
23 order once we start cross examination counsel may not
24 consult with a witness until he's been excused as a
25 witness?

26 THE COURT: Do you want to be heard?

27 MR. HENNING: That's fine, your Honor.

28 THE COURT: That will be the standing order.

1 MR. HENNING: I just ask it be mutual.

2 THE COURT: It's a mutual order.

3 MR. BRIAN: We get it.

4 THE COURT: All right. Recess, 15 minutes.

5 (Recess)

6 THE COURT: Back on the record. Parties are
7 present and in their places. Mr. Kravis.

8 MR. KRAVIS: Thank you, your Honor.

9 THE COURT: You're welcome.

10 BY MR. KRAVIS:

11 Q. Mr. Uboldi, I just want to go back to one topic
12 that we were addressing before the break.

13 I'm showing you now on the screen what has
14 previously been marked and entered into evidence as
15 People's Exhibit 7. I think you looked at this photo on
16 direct examination yesterday. Do you remember that?

17 A. Yes, I do.

18 Q. Okay. I'm pointing with my pen here at a
19 vertical row of discs, the top center of the photo. Do
20 you see where I'm pointing?

21 A. Yes, I do.

22 Q. Oh, by the way, Exhibit 7, this is tower 1 over
23 6, right?

24 A. Correct.

25 Q. And the row of discs in the top center, they're
26 white discs, that's the jumper support insulator string,
27 right?

28 A. Yes.

1 Q. And I'm pointing with my pen at another vertical
2 row of white discs in the top, closer to the top center
3 of the photo, Exhibit 7. Do you see where I'm pointing?

4 A. Yes.

5 Q. That is also a jumper support insulator string on
6 the tower, right?

7 A. Yes.

8 Q. And I'm pointing now with my pen at another
9 vertical row of white discs. This is closer to the
10 bottom center of People's 7. Do you see that?

11 A. Yes.

12 Q. That is another jumper support insulator string
13 on tower 1 over 6, correct?

14 A. Yes.

15 Q. You have personally looked at those jumper
16 support insulator strings, right?

17 A. Yes.

18 Q. They are made of porcelain, right?

19 A. Yes.

20 Q. And as we talked about before, porcelain
21 insulator strings are really heavy, right?

22 A. Yes.

23 Q. Now, yesterday on direct examination you
24 testified a little bit about the configuration of the
25 PG&E power lines in this area of the Geysers. Do you
26 remember that testimony?

27 A. Yes.

28 Q. I want to go back and ask you some questions

1 about that. And I want to start --

2 May I approach, your Honor?

3 THE COURT: You may.

4 BY MR. KRAVIS:

5 Q. I want to start by showing you what has
6 previously been admitted as People's 62. Do you
7 remember People's 62?

8 A. Yes, I do.

9 Q. This is a map that depicts the transmission lines
10 in the area of tower 1 over 6, right?

11 A. Yes.

12 Q. And the tower is depicted here, there's a green
13 star, and below it the number 001/006. Do you see that
14 there?

15 A. Yes, I do.

16 Q. That's the location of tower 1 over 6, right?

17 A. Yes.

18 Q. And just above it and to the right there's a red
19 dot, and above the red dot there is text that reads
20 Geysers number 9 and number 10 PP. Did I read that
21 right?

22 A. That's correct.

23 Q. That red dot is the location of the plant we've
24 been talking about, Geysers or Fumarole 9-10, right?

25 A. Correct.

26 Q. Now, at the time of the Kincade Fire, tower 1
27 over 6 supported two transmission lines, is that right?

28 A. Yes.

1 Q. One of those lines is called the Geysers number 9
2 Lakeville line, is that right?

3 A. Yes.

4 Q. And one of them is the Geysers number 12 Fulton
5 line, is that right?

6 A. Yes.

7 Q. Do you see the blue line that runs from the
8 bottom center of People's 62 up to the X in the middle,
9 and then from there up to the top left of the exhibit?
10 Do you see that blue line?

11 A. Yes, I do.

12 Q. That's the Geysers number 12 line, right?

13 A. Yes.

14 Q. The Geysers number 12 line does not stop at tower
15 1 over 6, correct?

16 A. Correct.

17 Q. It continues north up to another power plant,
18 right?

19 A. Yes.

20 Q. And that power plant is Geysers unit 12, right?

21 A. Yes.

22 Q. It's depicted here in the top left corner of the
23 map, the red dot, right?

24 A. Yes.

25 Q. Geysers unit 12 is also sometimes called Cobb
26 Creek power plant, is that right?

27 A. I believe I've heard it called that, yes.

28 Q. That plant, Geysers number 12, or Cobb Creek,

1 that is also owned by CalPine, right?

2 A. I believe so.

3 Q. As of October 2019, that plant was active and
4 generating power, right?

5 A. I believe so.

6 Q. Now I'm going to show you a map -- actually, I'm
7 going to leave this here.

8 And now I'm going to show you a map that was
9 entered into evidence yesterday that shows the entire
10 Geysers 12 line. This has been previously marked and
11 admitted as People's 32. Do you remember People's 32?

12 A. Yes, I do.

13 Q. People's 32 is a further-out map of the
14 transmission lines and plants in this area of the
15 Geysers, right?

16 A. Yes.

17 Q. And the power line that we were just talking
18 about, Geysers 12, is depicted on People's 32 as running
19 straight down the top middle to the Fulton substation in
20 the middle of the exhibit, right?

21 A. Can you repeat that?

22 Q. Yes. The line that we were talking about a
23 moment ago, Geysers number 12, on this exhibit, People's
24 32, Geysers number 12 runs straight down the top center
25 of the exhibit all the way down to the Fulton
26 substation, is that correct?

27 A. Yes.

28 Q. The Geysers number 12 line runs continuously

1 between the Cobb Creek plant that we saw a moment ago at
2 its northern end and the Fulton substation at its
3 southern end, is that correct?

4 A. Yes.

5 Q. That means that the entire Geysers number 12 line
6 carries power south from Cobb Creek down to Fulton,
7 right?

8 A. I believe so, yes.

9 Q. So the entire Geysers number 12 line is active,
10 right?

11 A. Yes.

12 Q. And that includes the portion of the Geysers
13 number 12 line at tower 1 over 6, correct?

14 A. Yes.

15 Q. Okay. Now I'd like to ask you some questions
16 about the other line.

17 I'm going to go back to People's Exhibit 62.

18 At the time of the Kincade Fire, the Geysers
19 number 9 line started at tower 1 over 6, is that right?

20 A. Yes.

21 Q. And heading south from that spot -- I shouldn't
22 say south. Heading down towards the bottom of the
23 exhibit, the next tower down the line is 1 over 7,
24 right?

25 A. Correct.

26 Q. Then 1 over 8?

27 A. Correct.

28 Q. Then 1 over 9, right?

1 A. Correct.

2 Q. And when we get to 1 over 9, there's another line
3 coming off of the Geysers number 9 line, right?

4 A. Yes.

5 Q. I think you referred to that yesterday on direct
6 examination as the SMUD or S-M-U-D tap line. Do I have
7 that right?

8 A. Yes.

9 Q. That line connects to another power plant, right?

10 A. Yes.

11 Q. That power plant is depicted in the lower right
12 quadrant of the exhibit with a red dot labelled Sonoma
13 CalPine PP, right?

14 A. Yes.

15 Q. This is sometimes called the Sonoma plant, right?

16 A. Yes.

17 Q. It's also sometimes called unit 3?

18 A. I believe so.

19 Q. This is also -- this Sonoma power plant is also
20 owned by CalPine, right?

21 A. Yes.

22 Q. And at the time of the Kincade Fire this plant
23 was still active, right?

24 A. I believe so.

25 Q. So at tower 1 over 9, there is an active power
26 plant feeding into the Geysers number 9 line, is that
27 right?

28 A. Yes.

1 Q. And tower 1 over 9 is three towers down from
2 tower 1 over 6, right?

3 A. Yes.

4 Q. I'm going to take you back now to People's 32.
5 On people's 32, the Geysers 9 line is depicted in
6 green, right?

7 A. I believe so. It's hard to see with that, but
8 I've seen that photo before.

9 Q. Do you want to see it up close?

10 A. Yes, please.

11 Q. I'm going to direct your attention to the bottom
12 center of the exhibit. Do you see there's a color key
13 down there?

14 A. Yes, I do.

15 Q. The Geysers number 9 line is green, right?

16 A. Yes.

17 Q. Now on People's Exhibit 32, the Geysers 9 line in
18 green runs all the way down to the Lakeville substation,
19 right?

20 A. Yes.

21 Q. The Lakeville substation is located outside of
22 Petaluma, right?

23 A. Yes, it is.

24 Q. Petaluma is about -- I don't know -- 40 miles
25 from the Geysers, does that sound right?

26 A. Yes.

27 Q. So this section of the Geysers number 9 line that
28 runs from tower 1 over 9 down to Lakeville carries power

1 from an active power plant, right?

2 A. Yes.

3 Q. It carries power from that Sonoma plant that's
4 connected by the tap line, right?

5 A. Yes.

6 Q. So that means that from tower 1 over 9 to the
7 Lakeville substation, that portion of line is active,
8 right?

9 A. Yes.

10 Q. At the time of the Kincade Fire, the only portion
11 of the Geysers number 9 line that did not carry power
12 from an active power plant was the last three spans of
13 the line, right?

14 A. Yes.

15 Q. That's the portion of the line between tower 1
16 over 6 and tower 1 over 9, right?

17 A. Correct.

18 Q. In total, if you added it all up, the Geysers 9
19 line and the Geysers 12 line, both of the lines that are
20 on tower 1 over 6, they run about 66 total miles, don't
21 they?

22 A. I believe so. I didn't --

23 MR. HENNING: Objection. Move to strike.
24 Non-responsive. Ask for foundation.

25 THE COURT: Well, do you know the answer to
26 that question?

27 THE WITNESS: No, I do not.

28 THE COURT: Sustained.

1 BY MR. KRAVIS:

2 Q. Those two lines, Geysers 9 and Geysers 12, they
3 cover about 300 towers, don't they?

4 MR. HENNING: Objection. Foundation.

5 THE WITNESS: I don't know.

6 THE COURT: Overruled. The answer will stand.

7 BY MR. KRAVIS:

8 Q. Those two lines, Geysers 9 and 12, connect to ten
9 different power plants, don't they?

10 MR. HENNING: Same objection.

11 THE WITNESS: I don't know.

12 THE COURT: Overruled.

13 BY MR. KRAVIS:

14 Q. And all -- everything on the Geysers 9 line and
15 the Geysers 12 line, all of it is -- at the time of the
16 Kincade Fire, all of it was active except for the three
17 spans between 1 over 9 and 1 over 6, correct?

18 A. Say that one more time?

19 Q. Yeah. All of the spans of the lines that we were
20 just looking at, all of Geysers number 12 from Cobb
21 Creek down to the substation, and Geysers 9 from tower 1
22 over 9 down to the substation, all of that line was
23 active at the time of the Kincade Fire except for the
24 three spans between tower 1 over 9 and tower 1 over 6,
25 correct?

26 MR. HENNING: I'm going to object as foundation
27 as to the word "active."

28 THE COURT: Sustained.

1 BY MR. KRAVIS:

2 Q. Did you -- you said you investigated the Kincade
3 Fire, is that correct?

4 A. Yes.

5 Q. And I think you said during your testimony
6 yesterday that you investigated the line, didn't you?

7 A. Yes.

8 Q. And in fact, you drove some portions of the line,
9 right?

10 A. Yes, I did.

11 Q. You went to see where the line connected, right?

12 A. Yes.

13 Q. And the maps that I showed you today, you're
14 familiar with those, right?

15 A. Yes.

16 Q. You testified yesterday that those are fair and
17 accurate depictions of the power lines in this area?

18 A. Yes.

19 Q. Okay. Based on your familiarity with those
20 materials and your investigation of the lines, can you
21 name any other span of these lines that was not active
22 at the time of the Kincade Fire, other than the three
23 spans between 1 over 9 and 1 over 6?

24 MR. HENNING: Objection. Misstates the
25 evidence as to active.

26 THE COURT: Sustained.

27 BY MR. KRAVIS:

28 Q. Can you name any other span of line -- excuse me,

1 any other spans on these two lines that was not carrying
2 live electricity at the time of the Kincade Fire, other
3 than the spans between 1 over 9 and 1 over 6?

4 MR. HENNING: Objection. Lacks foundation.

5 THE COURT: Sustained.

6 THE WITNESS: With the --

7 MR. HENNING: Objection. No question pending.

8 MR. KRAVIS: There's no question.

9 THE WITNESS: Sorry. I apologize.

10 BY MR. KRAVIS:

11 Q. Mr. Uboldi, you testified on direct examination
12 about a fire called the Sawmill Fire. Do you remember
13 that?

14 A. Yes.

15 Q. You were the lead Cal Fire investigator for the
16 Sawmill Fire, is that right?

17 A. Correct.

18 Q. Mr. Uboldi, did you testify on direct examination
19 that the Sawmill Fire was caused by low cycle fatigue?

20 A. I testified that it was -- it was regards to the
21 failure on the power lines.

22 Q. I'm sorry?

23 A. Failure of the equipment. In the report I stated
24 it was because of the equipment.

25 Q. Right. My question was, did you testify on
26 direct examination that low cycle fatigue caused the
27 Sawmill Fire?

28 A. Yes.

1 Q. Did you write a report on the Sawmill Fire?

2 A. Yes, I did.

3 Q. And you testified yesterday that you received
4 training as an investigator, right?

5 A. Yes, sir.

6 Q. And based on your training and experience, you
7 know that it is important for your investigative reports
8 to be accurate, right?

9 A. Yes, sir.

10 Q. And that's important because law enforcement or
11 other agencies may rely on your reports, right?

12 A. Yes, sir.

13 MR. KRAVIS: May I approach?

14 THE COURT: You may.

15 BY MR. KRAVIS:

16 Q. Mr. Uboldi, I've handed you what has been marked
17 for identification as Defense Exhibit R. That is a copy
18 of the report that you prepared on the Sawmill Fire,
19 right?

20 A. Yes.

21 Q. Your name is on the front, right?

22 A. Yes.

23 Q. Mr. Uboldi, nowhere in this report do the words
24 low cycle fatigue appear, do they?

25 A. They do not.

26 Q. When did you conclude that low cycle fatigue
27 caused the Sawmill Fire?

28 A. It was during our investigation with our subject

1 matter expert Nolt that that was brought up.

2 Q. Oh. So that was after you prepared the report of
3 the Sawmill Fire?

4 A. That was during.

5 Q. It was only after -- and who is Nolt again?

6 A. He's an electrical engineer that was employed by
7 us.

8 Q. So it was only after talking with Mr. Nolt that
9 you decided that low cycle fatigue caused the Sawmill
10 Fire?

11 A. No.

12 Q. Isn't that what you just said?

13 A. Yes.

14 Q. In fact, the Sawmill Fire report, the word
15 "fatigue" appears nowhere in this report, correct?

16 A. It does not. You're correct.

17 Q. I want to ask you now about the equipment that
18 was involved in the two fires. The Kincade Fire
19 involved a steel tower, right?

20 A. Correct.

21 Q. The PG&E facility involved in the Sawmill Fire
22 was not a steel tower, was it?

23 A. Correct.

24 Q. It was a wooden pole, right?

25 A. Correct.

26 Q. The Sawmill Fire and the Kincade Fire also
27 involved different kinds of wires, didn't they?

28 A. Yes.

1 Q. The Sawmill Fire involved a bond wire, right?

2 A. Yes.

3 Q. I'm going to show you what has been marked and
4 admitted into evidence as People's Exhibit 49. Do you
5 recognize that?

6 A. Yes, I do.

7 Q. That is a photo of the bond wire that was
8 involved in the Sawmill Fire, right?

9 A. Yes.

10 Q. This is a single wire, right? It's not multiple
11 strands?

12 A. Yes.

13 Q. And this single wire from the Sawmill Fire, this
14 was connected to the wooden pole, right?

15 A. Yes.

16 Q. And it was connected to the wooden pole by
17 staples, right?

18 A. Yes.

19 Q. I think on direct examination you referred to
20 them -- was it horseshoe clamps?

21 A. Nails.

22 Q. Horseshoe nails. That's basically like a heavy
23 staple, right?

24 A. That is correct.

25 Q. Now the Kincade Fire did not involve a
26 single-strand bond wire, did it?

27 A. No.

28 Q. I'm going to show you what's been marked and

1 admitted as People's Exhibit 28. This is a photo of the
2 jumper cable from the Kincade Fire, right?

3 A. Correct.

4 Q. This is much thicker than the bond wire from
5 Sawmill, right?

6 A. Correct.

7 Q. There are lots of strands inside that cable,
8 right?

9 A. Yes.

10 Q. You've seen this in person, right?

11 A. Yes.

12 Q. This cable is much heavier than the bond wire
13 from Sawmill, right?

14 A. Yes.

15 Q. There is no way that you could staple that jumper
16 cable to a wooden pole, could you?

17 A. Not that I've seen, no.

18 Q. The two wires, the bond wire and the jumper
19 cable, they also have different purposes on their
20 respective structures, right?

21 A. As far as I understand, yes.

22 Q. Yeah. Like you could not use -- you could not
23 string a single-strand bond wire from pole to pole to
24 carry electricity, could you?

25 A. I'm not an electrician. No, I'm not aware of
26 that.

27 Q. Okay. Now, you testified on direct examination
28 that in your view the configuration of the tower from

1 the Kincade Fire was odd, right?

2 A. Yes.

3 Q. And I think you testified earlier this morning
4 that the configuration of the tower, the Kincade tower,
5 made it susceptible to low cycle fatigue, right?

6 A. Yes.

7 Q. And when you use the term low cycle fatigue, you
8 are talking about fatigue or stress from movement,
9 right?

10 A. Yes.

11 Q. Like the example you gave us yesterday was a
12 paperclip, right?

13 A. Yes, it was.

14 Q. And what you said about the paperclip was you
15 bend it back and forth and eventually the fatigue from
16 the movement causes the paperclip to break, is that
17 right?

18 A. Yes.

19 Q. And that was the example you gave of low cycle
20 fatigue, is that right?

21 A. Yes.

22 Q. And in the context of the Kincade Fire, the
23 movement we're talking about is movement from wind,
24 right?

25 A. Correct.

26 Q. So to show you People's Exhibit 59 -- it's been
27 admitted into evidence -- this is tower 1 over 6, right?

28 A. Correct.

1 Q. And the jumper cables are the brown lines that
2 run from left to right across the top and middle of the
3 exhibit, as I'm indicating here with my pen. Those are
4 the jumper cables, right?

5 A. Correct.

6 Q. And the idea here -- your testimony was that
7 those jumper cables are exposed to movement from the
8 wind, is that right?

9 A. Yes.

10 Q. Okay. Low cycle fatigue could not possibly have
11 caused the failure in the Sawmill Fire, could it?

12 MR. HENNING: Objection. Argumentative.

13 THE COURT: Overruled. You can answer.

14 THE WITNESS: Can you repeat your question?

15 BY MR. KRAVIS:

16 Q. Low cycle fatigue could not possibly have caused
17 the failure of the wire in the Sawmill Fire, could it?

18 A. It could have.

19 Q. Let me show you what's been entered into evidence
20 as People's Exhibit 53.

21 You were shown this photograph this morning. The
22 bottom photograph in People's 53 is the pole from the
23 Sawmill Fire after it had been repaired by PG&E,
24 correct?

25 A. Yes.

26 Q. And the horseshoe nails or staples that you were
27 talking about are pictured here in two places in the
28 photograph, towards the top middle and towards the

1 bottom middle where I'm pointing with my pen, correct?

2 A. Yes.

3 Q. The staples do not move, do they?

4 A. They will.

5 Q. Your testimony is -- the staples are not
6 configured to move, are they?

7 A. No.

8 Q. In fact, that's the whole point of the staple,
9 right?

10 A. Essentially.

11 Q. The staple staples into a wooden pole, right?

12 A. Yes.

13 Q. And the staple, when it's stapled into the wooden
14 pole, holds the wire in place, right?

15 A. It's supposed to.

16 Q. The staples do not move in the wind, do they?

17 A. No, they do not move in the wind.

18 Q. In fact, when they're stapled into the wooden
19 pole, the staples do not move at all, do they?

20 A. Eventually over time they will move. They could
21 back themselves out.

22 Q. You mean eventually over time they could fall out
23 of the pole, right?

24 A. Yes.

25 Q. But they do not move, bend back and forth like
26 your paperclip, do they?

27 A. Not that I'm aware of.

28 Q. So just to sum up here, your Sawmill Fire report

1 never uses the word low cycle fatigue, does it?

2 A. Does not.

3 Q. The Sawmill Fire involved a different structure
4 than the Kincade Fire, a wooden pole and not a steel
5 tower, right?

6 MR. HENNING: Objection. Asked and answered.

7 THE COURT: Sustained. Unless this is
8 foundation and you're going somewhere that I'm not
9 seeing.

10 MR. KRAVIS: May I just have two more questions
11 on this?

12 THE COURT: Go ahead.

13 MR. KRAVIS: Okay. Thank you.

14 BY MR. KRAVIS:

15 Q. And so the Sawmill Fire involved a different kind
16 of structure, a wooden tower, not a steel pole, right?

17 A. Yes.

18 Q. It involved a different kind of wire, the single
19 strand bond wire, not a heavy multistrand jumper cable,
20 right?

21 A. Yes.

22 Q. And the Sawmill Fire did not involve a
23 configuration issue, right?

24 A. Could you elaborate?

25 Q. You are not saying, are you, that the staples in
26 the pole on the Sawmill Fire were configured in a way
27 that allowed for low cycle fatigue, are you?

28 A. No.

1 MR. KRAVIS: May I have just a moment, please?

2 THE COURT: You may.

3 BY MR. KRAVIS:

4 Q. Mr. Uboldi, I'd like to ask you a few questions
5 about the night of the fire.

6 The circuit breaker -- on the night of the fire,
7 the circuit breaker on the transmission line was tripped
8 around 9:20 p.m., right?

9 MR. HENNING: I'm going to object on
10 foundation, your Honor.

11 THE COURT: Sustained. You can lay a
12 foundation.

13 BY MR. KRAVIS:

14 Q. Mr. Uboldi, did you write in your report about
15 the trip of the circuit breaker on the night of the
16 fire?

17 THE COURT: Which fire are we talking about?

18 MR. KRAVIS: I'm sorry. I apologize.

19 BY MR. KRAVIS:

20 Q. The night of the Kincade Fire. I'm asking you
21 about the night of the Kincade Fire.

22 Mr. Uboldi, in the course of your investigation
23 into the Kincade Fire, did you look into when the
24 circuit breaker was tripped on the transmission line?

25 A. I'd have to refer to my report.

26 Q. Do you have a copy up there?

27 A. I have a copy.

28 Q. Let me direct your attention to page 21 of your

1 report. Don't read anything out loud.

2 A. I won't.

3 Q. But can you read for me, please, the first
4 paragraph, to yourself, lines 1 through 4, and then look
5 up at me when you finish.

6 A. I finished.

7 Q. Okay. Does that refresh your recollection as to
8 your investigation into when the line was tripped on the
9 night of the Kincade Fire?

10 A. Yes.

11 Q. It was tripped at 9:20 p.m., right?

12 A. Correct.

13 Q. So the fire had to have started sometime after
14 9:20 p.m., right?

15 A. I believe so.

16 Q. The Cal Fire emergency command center dispatched
17 to the fire at about 9:27 p.m., right?

18 A. Yes.

19 Q. So that means that authorities were aware of the
20 fire at most seven minutes after it started, right?

21 A. Yes.

22 Q. You received that Cal Fire emergency command
23 center notification, right?

24 A. Yes, I did.

25 Q. I think you testified yesterday that you got it
26 by text message?

27 A. Yes.

28 Q. And I think after you got the message you said

1 you dressed and then you went to the fire?

2 A. Yes, I did.

3 Q. And I think you testified yesterday that your
4 access to the tower was blocked by dangerous fire
5 conditions, is that right?

6 A. That is correct.

7 Q. When you arrived at the scene of the fire, other
8 Cal Fire officers were already present at the scene,
9 right?

10 A. Yes.

11 Q. And there were -- there was at least one CalPine
12 employee in the area where the fire started?

13 A. Yes.

14 Q. No one from PG&E was present when you arrived at
15 the tower, correct?

16 A. Not that I observed.

17 Q. And when Cal Fire arrived, Cal Fire hung yellow
18 flagging at the entrance to the plant to indicate that
19 no one should enter, right?

20 A. Yes.

21 Q. Cal Fire also retained scene security, right?

22 A. Yes.

23 Q. And no one was allowed past the yellow flagging
24 without a Cal Fire escort, correct?

25 A. That is correct.

26 Q. Now I want to ask you about the area of the fire
27 here.

28 In the course of your investigation you

1 determined that the specific origin area of the fire was
2 downslope or south of the tower. Do I have that right?

3 A. That is correct.

4 Q. And you concluded that a heat source initially
5 ignited the vegetation from this location, which then
6 spread to surrounding vegetation?

7 A. Yes.

8 Q. Okay. That area that you identified as the
9 specific origin area, PG&E does not own that land, does
10 it?

11 A. No.

12 Q. In fact, this tower, 1 over 6, the tower is
13 located like 200 yards behind a gate, isn't it?

14 A. That's a rough estimation, but yeah. I would
15 say, yeah.

16 Q. That gate is controlled by CalPine, right?

17 A. I believe so.

18 Q. CalPine is the owner of the plant, right?

19 A. Yes.

20 Q. In fact, on the night of the fire, a CalPine
21 employee had to come open the gate so Cal Fire could get
22 in, right?

23 A. That's what I was told. That's what they told
24 me, yes.

25 Q. From your examination of the area, you located
26 several lateral and advancing fire spread indicators
27 east and south of the tower. Do I have that right?

28 A. Yes.

1 Q. And you concluded that the fire spread from that
2 location downslope from the tower, right?

3 A. Yes.

4 Q. The location where you concluded that the fire
5 spread, PG&E does not own that land either, does it?

6 A. I'm not aware.

7 Q. Let me show you People's Exhibit 63.

8 Mr. Uboldi, I'm showing you what has previously
9 been marked and admitted as People's Exhibit 63. This
10 is a map of the footprint of the Kincade Fire, is that
11 correct?

12 A. Yes.

13 Q. You testified about this on direct examination
14 yesterday?

15 A. Yes.

16 Q. In the course of your investigation, did you look
17 into whether PG&E owns any of the land in this
18 footprint?

19 A. No.

20 MR. KRAVIS: May I have just a moment, your
21 Honor?

22 THE COURT: You may.

23 MR. KRAVIS: Thank you, sir. I have no further
24 questions.

25 THE COURT: Okay. Thank you very much.
26 Redirect?

27 MR. HENNING: Thank you.

28 ///

REDIRECT EXAMINATION

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BY MR. HENNING:

Q. Good morning again, Mr. Uboldi.

A. Good morning.

Q. About halfway there.

I just want to go over a few areas. One of -- I'm going to show you what's been marked as Defense Exhibit N. And I want to show you -- I want to clarify something.

You told us yesterday at length about how you observed the jumper configuration and the vertically-hanging insulator moving the night of the fire, of the Kincade Fire. And you also described -- and I just want to understand -- what else did you see moving that night?

A. May I show up on the --

Q. Sure.

MR. KRAVIS: Well, wait. I object. I asked questions about this exhibit, and he said he didn't recognize it, and it wasn't admitted.

THE COURT: So it hasn't been admitted at this point.

MR. HENNING: That's fine. Let me use a different exhibit. Let's look at People's 6.

BY MR. HENNING:

Q. So you described yesterday at length how you saw these jumpers, top, middle and bottom on the Lakeville side of the line swinging like a pendulum back and forth

1 that night. And I just want to make sure we're clear
2 about it.

3 What else -- were you able to see tower 1 over 7
4 that night? The one tower south of 1 over 6?

5 A. Vaguely in this distance, yes.

6 Q. Okay. Were you able -- was that tower
7 illuminated in any way?

8 A. No.

9 Q. Was it smoky at all that night?

10 A. It was smoky.

11 Q. Were you able to see -- what if any movement did
12 you see as you looked down the line in the direction of
13 1 over 7?

14 A. What I saw was the three on the left, three wires
15 on the left, three wires on the right, and they were
16 blowing back and forth, in series, together.

17 Q. And I want to understand better, and I'm going to
18 use People's 61 to help.

19 Could I borrow your pointer?

20 A. Yes.

21 Q. This is the Lakeville side?

22 A. Yes, it is.

23 Q. Do you see how there's actually two lines on the
24 Lakeville side?

25 A. Yes.

26 Q. And then there's two parallel lines on the Fulton
27 side?

28 A. Yes.

1 Q. And so when you're saying that you saw two lines
2 moving back and forth in unison as you were looking down
3 the line, could you clarify, did you mean the two on the
4 Lakeville side or did you see all four?

5 A. So when I said the two, two sets of three. So
6 when I say a set -- because they're connected together
7 -- may I?

8 Q. Yes, please.

9 A. Because these are connected together we're
10 considering this as one. This is one, this is one. So
11 when I said two sets, what I was talking about is this
12 set and this set were all going back and forth.

13 Q. Okay. So as you look down in the direction of 1
14 over 7 you saw both sides swinging?

15 A. Yes.

16 Q. Okay. Did you see any other -- were you able to
17 see whether anything on tower 1 over 7 in terms of
18 insulator jumper strings, any equipment, was also
19 swinging?

20 A. Just the Lakeville side jumpers were going back
21 and forth violently.

22 Q. I'm asking when you look in the direction of 1
23 over 7. Did you see anything on tower 1 over 7, or was
24 that out of your vision?

25 A. That was out of my vision.

26 Q. Okay. And then focus on tower 1 over 6, the
27 Fulton side. Describe if you're looking at those jumper
28 configurations, top, middle and bottom, please describe

1 the movement that you observed, if any. I didn't mean
2 to put words --

3 A. Very minimal.

4 Q. Very minimal?

5 A. Yeah. They were not -- compared to the Lakeville
6 side, they were staying -- I've seen them blow just as
7 much that way. I would say probably 12, 13 inches back
8 and forth at the most.

9 Q. Okay. And so when you say minimal, is that in
10 comparison?

11 A. In comparison to the Lakeville side on the left.

12 Q. You told us yesterday that during the course of
13 your investigation you consulted with subject matter
14 experts. Why did you do that?

15 A. Because I believed it was -- I believed I was
16 getting -- I needed subject matter experts because it
17 was out of my expertise and training.

18 Q. Did they assist you in your investigation?

19 A. Yes, they did.

20 Q. I want to ask you a couple questions about these
21 inspection forms. And specifically, there's a climbing
22 inspection and a drone inspection.

23 Before I show you them, do you know, are you able
24 to speak to the quality of the inspections themselves?

25 A. No.

26 Q. Why can't you speak to the quality?

27 A. I've never seen one performed personally. I
28 haven't had any training and/or descriptions given to me

1 about how it's done. Just a very vague. It's a
2 climbing inspection. That's all I know. I don't know
3 what is actually performed.

4 Q. Beyond reviewing the forms themselves on paper,
5 was there any other information you were able to gather
6 during your investigation regarding the inspections?

7 A. In regards to those inspections themselves?

8 Q. Yes.

9 A. No.

10 Q. Now I'm going to show you, this has been marked
11 as Defense P for identification.

12 THE COURT: None of the defense exhibits have
13 been admitted.

14 BY MR. HENNING:

15 Q. Showing you -- you're not going to be able to
16 read this, so I'll just come up anyway.

17 Now, on this page, page 5 towards the top, does
18 it have -- does it include -- the inspection form, does
19 it include a code for what certain numbers represent?

20 A. Yes, it does have a condition code.

21 Q. Is there also a condition code that says N/A?

22 A. Yes.

23 Q. And what does this form say N/A means?

24 A. Not present.

25 Q. Not present. If you -- can I move your attention
26 down on this page, it says, "jumpers in poor condition."
27 What is the response there?

28 A. "N/A."

1 Q. Okay. So jumpers in poor condition not present?
2 Is that how you interpret this --

3 A. That is how I interpret this, yeah. It would say
4 not present.

5 Q. Okay. So what about beneath that, "jumper
6 clearance issue"?

7 A. "N/A," not present.

8 Q. And above that, does N/A appear to be used as a
9 substitute for the word no?

10 MR. KRAVIS: Objection.

11 THE COURT: Sustained. Lacks foundation.

12 BY MR. HENNING:

13 Q. Are there any entries on that page where the
14 answer is no?

15 A. Yes.

16 Q. Can you count how many entries on this page have
17 the answer no?

18 A. I believe there's nine.

19 Q. Okay. And you weren't there in May -- were you
20 there in May of 2019 when PG&E did this drone
21 inspection?

22 A. No.

23 Q. But were there jumpers present when you were
24 there on October 23rd, 2019?

25 A. Yes.

26 Q. Can I turn you -- turn your attention to the next
27 page? Do you see the section Hardware and Insulators?

28 A. I do.

1 Q. And is there a section where it says
2 "Suspension/dead end conductor hardware, high end shoe
3 assembly in poor condition"?

4 A. Yes, I do see that.

5 Q. What is the coding for that one?

6 A. N/A.

7 Q. At the top of that page does it show what N/A
8 means?

9 A. It represents not present.

10 Q. Okay. And what's the entry below that one?

11 A. "Suspension dead end connectors, hardware cold
12 ends in poor condition EG C hook."

13 Q. What does it say about for that?

14 A. "N/A."

15 Q. Not present?

16 A. Not present.

17 Q. Okay. Do you know what this -- did you see any
18 -- do you know what this is referring to? The hardware,
19 the hot end or the cold end conditions?

20 A. I haven't had any formal training in those
21 documents, so no.

22 Q. Do you know what a C hook is?

23 A. I am, yes.

24 Q. Are you able to say whether -- this form says C
25 hook not present. Are you able to say whether there
26 were C hooks on that tower when you were there in
27 October of 2019?

28 A. I believe we did, there was some C hooks on that.

1 Q. Okay.

2 THE COURT: Mr. Henning, it's slightly after
3 noon.

4 MR. HENNING: I have one more question.

5 THE COURT: Go ahead.

6 MR. HENNING: Thank you.

7 BY MR. HENNING:

8 Q. It might take a bit of a response but just
9 briefly I want to understand you on the Sawmill Fire.

10 Please explain to us why you believe that low
11 cycle fatigue contributed to the cause of the Sawmill
12 Fire.

13 MR. KRAVIS: Objection. Asked and answered.

14 THE COURT: Overruled. I'll hear the answer,
15 but this is going to take longer than a minute. So
16 we're going to take our recess. We'll come back at
17 1:30.

18 (Noon recess)

19

20 THE COURT: Good afternoon. Back on the record
21 in People versus Pacific Gas and Electric.

22 Sir, I'll remind you, you are still under oath.

23 Mr. Henning.

24 MR. HENNING: Thank you.

25 BY MR. HENNING:

26 Q. I'm showing you what's been marked and received
27 into evidence as People's 50. Do you remember this
28 photo, Mr. Uboldi?

1 A. Yes, I do.

2 Q. And the question that I'd asked right before
3 lunch is whether you can explain how you believe low
4 cycle fatigue contributed to the Sawmill Fire. Would
5 this exhibit, would this assist you in that explanation?

6 A. Yes, it would.

7 Q. Okay. Could you, perhaps using the pointer
8 that's up there, explain to us using People's 50 how you
9 believe low cycle fatigue contributed to the Sawmill
10 Fire?

11 A. So prior to the incident, the wire ran -- the
12 ground wire ran from here down. At an unknown point we
13 believe that the staples had come out of the wire, which
14 caused it to vibrate in the wind, creating the cycles,
15 which eventually ended up causing a failure to the top
16 wire here.

17 When the failure happened to the top wire here,
18 this increased the cycle, the low cycle fatigue, and
19 made the wire go back and forth in this manner,
20 basically left to right, causing the failure, eventual
21 failure of the wire at the bottom here where the low
22 cycle fatigue occurred.

23 So the wire is going back and forth, left to
24 right. As it's doing that it increases and it finally
25 makes contact over here, striking the conductor, and
26 then energizing back to the ground wire and then -- and
27 energizing the hardware to the insulator and then to the
28 guide wire that ran down the pole.

1 When it made contact here it created a shower of
2 sparks that released and fell down to the bottom of the
3 base of the pole and created the spot fires.

4 Additionally, sent electricity back down through
5 the ground wire, down this guide wire to the anchor and
6 created a fire at the base of the anchor.

7 Q. Okay. And so one of the things you said early on
8 is that you believe the wire broke up top at an unknown
9 point.

10 A. Yes.

11 Q. Do you mean an unknown point of time?

12 A. Correction. Unknown point of time.

13 Q. Okay. And could you -- maybe I was getting a
14 little dizzy with the pointer. Would it be helpful to
15 demonstrate maybe using your arm, with your elbow as the
16 bottom point where that wire was connected?

17 MR. KRAVIS: Objection. It's been asked and
18 answered several times.

19 THE COURT: I think I understand the movement
20 he was describing using the pointer. Are you looking
21 for a specific issue within that description?

22 MR. HENNING: Based upon the Court's
23 understanding, I'm --

24 THE COURT: I'm satisfied I understand what the
25 witness is attempting to describe.

26 MR. HENNING: Thank you, your Honor. I don't
27 have any further questions.

28 THE COURT: Okay.

1 MR. KRAVIS: May I recross briefly on this
2 point?

3 THE COURT: You may.

4 MR. KRAVIS: Thank you, your Honor.

5 RECROSS-EXAMINATION

6 BY MR. KRAVIS:

7 Q. Mr. Uboldi I just want to make sure I understand
8 what you're saying about the Sawmill Fire. You are not
9 saying the low cycle fatigue caused the staple to come
10 out of the pole, are you?

11 A. Low cycle fatigue -- correct. Low cycle fatigue
12 was not the reason the staple came out of the pole.

13 MR. KRAVIS: Thank you. I have no other
14 questions.

15 THE COURT: May this witness be excused?

16 MR. HENNING: Yes, your Honor.

17 THE COURT: Okay, sir. Thank you very much for
18 being here. You may step down.

19 People's next witness.

20 MR. HENNING: Your Honor, at this time the
21 People would call Joseph Hemstock. And Mr. Hemstock has
22 counsel and he requested maybe he could sit up --

23 THE COURT: He can sit in the audience.

24 MR. HENNING: Your Honor, this is Mr.
25 Hemstock's counsel.

26 THE COURT: Good afternoon.

27 MR. BORNSTEIN: Good afternoon.

28 THE COURT: Good afternoon, sir.

1 THE WITNESS: Good afternoon. How are you
2 doing?

3 THE COURT: I'm fine, thank you.

4 JOSEPH HEMSTOCK,

5 Called as a witness herein, who having been first duly
6 sworn, was examined and interrogated as is hereinafter
7 set forth:

8 THE CLERK: Please have a seat. Please state
9 and spell your name for the record.

10 THE WITNESS: My name is Joseph Hemstock.
11 J-O-S-E-P-H, H-E-M-S-T-O-C-K.

12 THE COURT: Thank you.

13 Mr. Henning.

14 MR. HENNING: Thank you.

15 Does the Court want to take an appearance from
16 Mr. Hemstock's counsel?

17 THE COURT: Sure. You can announce your
18 appearance for the record, if you like.

19 MR. BORNSTEIN: Thank you, your Honor. Jeff
20 Bornstein from Rosen Bien Galvan and Grunfeld on behalf
21 of Mr. Hemstock.

22 THE COURT: Thank you, Mr. Bornstein.

23 All right. You may inquire.

24 DIRECT EXAMINATION

25 BY MR. HENNING:

26 Q. Good afternoon, Mr. Hemstock.

27 A. Afternoon.

28 Q. And are you currently employed or are you

1 retired?

2 A. I'm retired.

3 Q. And where did you retire from?

4 A. Pacific Gas and Electric.

5 Q. And approximately when did you retire?

6 A. February 1st, 2009.

7 Q. Prior to coming into court today, did you enter
8 into what's called a proffered agreement with my office?

9 A. I believe so. Is that that letter?

10 Q. Yes.

11 A. Yes.

12 Q. And can you just explain for the Court what your
13 understanding of what that agreement was?

14 A. That if I was to lie, perjure or anything that
15 you would use that information against me.

16 Q. And did your attorney, Mr. Bornstein, who's
17 present in court, did he have the ability to answer any
18 questions you had about that agreement?

19 A. Yes.

20 Q. And are you paying for Mr. Bornstein or is that
21 PG&E?

22 MR. KRAVIS: Objection. Relevance.

23 THE COURT: Overruled. I'll hear it.

24 THE WITNESS: No, I'm not paying for anything.

25 BY MR. HENNING:

26 Q. Do you know who's paying for him?

27 A. Not specifically, but I would imagine it's PG&E.
28 I don't know.

1 Q. You imagine it will be PG&E?

2 A. Excuse me?

3 Q. Did you say you imagine it would be PG&E?

4 A. I can make an assumption. That's all.

5 Q. Okay. When did you begin your career at PG&E?

6 A. December 16, 1971.

7 Q. And did you work for PG&E continuously from '71
8 until your retirement in '09?

9 A. Yes, I did.

10 Q. And we're going to talk about that in a moment,
11 but after '09 have you returned? Have you worked for
12 PG&E in a contract capacity?

13 A. Yes, I did.

14 Q. And explain that. How much time have you spent
15 working in a contract capacity?

16 A. Well, I spent some time, a year or more at the
17 Livermore Academy as an instructor teaching apprentice
18 linemen, the craft. And then I spent a couple more
19 years as a supervising inspector for the Victor office,
20 where the inspectors that are watching the contractors
21 reported to me.

22 Q. And are you still today working?

23 A. No, I quit doing that stuff a couple years back.
24 I think 2019.

25 Q. Okay. And during that 10-year period from your
26 retirement, the approximate 10-year period until 2019,
27 were you working full time as a contract PG&E employee
28 or a couple months a year?

1 A. No, pretty much full time.

2 Q. Okay. So other than your retirement status in
3 2009, did you work continuously from '71 until a couple
4 years ago for PG&E?

5 A. Yes.

6 Q. Okay. If you could, please walk us through your
7 career at PG&E in terms of your various job titles and
8 assignments.

9 A. Well, in '71, when I hired on, I was working as a
10 laborer out of Diablo Canyon building transmission, 500
11 KV transmission system.

12 Sometime in '72 maybe early '73 I was transferred
13 to San Francisco on a general construction line crew,
14 where I started my learning as an apprenticeship. I got
15 my apprenticeship.

16 After so many years I ended up leaving the
17 general construction and going to San Francisco division
18 as a transfer as a groundman, and then I got my
19 apprenticeship back in San Francisco, made journeyman,
20 lineman.

21 I was a crew foreman in the San Francisco area, a
22 troubleman, a troubleman supervisor, and then I accepted
23 a job as a permanent supervisor in distribution in San
24 Francisco.

25 And then I believe in '87, '88, they opened up a
26 position in the new department, which was the electric
27 transmission. And because I had the background I ended
28 up going to them for in the transmission side of it. I

1 stayed there through '93. Came to the North Bay here,
2 Santa Rosa, Petaluma -- actually, my area was from
3 Sausalito to Orick.

4 Q. Where is that?

5 A. Just south of Crescent City.

6 So I had 2,200 something transmission lines I was
7 responsible for. And I did that until '95, I guess it
8 was -- or is it '97. I can't remember. And then I went
9 to general office out of San Francisco as a senior
10 specialist for transmission department.

11 And then in 2006, I went back as a first line
12 supervisor. Which I forgot that part. In '93 I think
13 is when I took the supervisor for transmission
14 operations from Sausalito to Orick. And that was out of
15 the Lakeville headquarters in Petaluma.

16 Q. First off, did we have an opportunity to meet
17 over Zoom and have --

18 A. Yes.

19 Q. -- a meeting last week?

20 A. Yes, we did.

21 Q. So let's try to do a good job of not anticipating
22 what we talked about then.

23 A. Okay.

24 Q. So I think you just pointed out, when you were in
25 the 90s, from '93, you said approximately '95 to '97,
26 what was that job title?

27 A. Electric transmission supervisor.

28 Q. Electric transmission supervisor.

1 And was that out of the Lakeville?

2 A. Lakeville headquarters, yes.

3 Q. When you were in that position, is that the time
4 period when you were responsible for that 2,200 miles of
5 transmission lines that you described?

6 A. Yes, that's correct.

7 Q. And then sometime around '95, '97 you went back
8 to the main office?

9 A. I went, took a job as a specialist with general
10 office, yes.

11 Q. And that job title was a transmission specialist?

12 A. Yes, senior transmission specialist.

13 Q. And then approximately at what point was it when
14 you went back to Lakeville?

15 A. 2006.

16 Q. Was that in the same position?

17 A. As -- no, back to the transmission line
18 supervisor position.

19 Q. That was back in the same position you had
20 occupied back in the 90s?

21 A. That's correct.

22 Q. Up until your retirement in 2009, did you have
23 any other changes of your job title?

24 A. No.

25 Q. Okay. And then you already described for us the
26 contract, or some of the contract work that you did.
27 Did any of that contract work after your retirement, was
28 any of that out of the Lakeville substation?

1 A. No, the contract side of it was out of the office
2 in Victor.

3 Q. I'm sorry. I didn't hear you.

4 A. The contract side of the work that I did after I
5 retired was -- the headquarters for the contract group
6 was out of Victor, which is over by Lodi.

7 Q. Okay. And when you were in this position, this
8 transmission line supervisor position that you occupied
9 twice, once in the 90s and again from 2006 to '09, in
10 that position, can you describe for us what your job
11 duties were?

12 A. Wow. Everything to do with transmission line.
13 So initially I had five transmission troubleman, slash,
14 inspector that reported to me between Eureka, Mendocino,
15 northern Sonoma County, Napa County and then Marin
16 County. I had guys in each areas. They were patrol and
17 inspect.

18 And our headquarters is again Lakeville, where I
19 had clerical duties. You know, I had clerks and stuff
20 down there. So essentially in those days my
21 responsibility was to make sure that we were meeting the
22 standards and guidelines set by PG&E for inspecting and
23 patrolling all the circuits in the area that I was
24 responsible for, and then reacting properly to whatever
25 problems that were reported to me.

26 Q. You said a few terms, and I'm hoping that I can
27 ask you to define them for us, because you're the first
28 PG&E employee or former employee to testify during this

1 hearing.

2 The first one is -- or the first three I've heard
3 you say groundman, lineman and troubleman. Could you
4 define those three terms for us?

5 A. A groundman is an entry position. Most people
6 hire right off the street. They're just -- that's
7 the -- they're the ones that work and help assist the
8 lineman and apprentice lineman that are up on the poles
9 or towers, to set up stuff and send it up to them.
10 Essentially it's a learning position.

11 Apprentice lineman, is that one of the
12 definitions you like?

13 Q. Just a lineman.

14 A. So then once you make journeyman, and that's a
15 state-recognized position. It says you met all the
16 criteria for you to become a journeyman, which is
17 minimum of three years of school along with your on-site
18 job training.

19 And then I think you asked about troublemen. And
20 the troublemen is essentially a first responder. If
21 there's -- your lights go out at your house, and a lot
22 of times the troublemen are usually the first one to
23 respond to find out why. If there's outages, he
24 responds to the outages. He does the switching at
25 direction of the operations center.

26 Essentially he's supposed to be knowledgeable
27 enough to make sure he can correct problems that he may
28 find that customers have or the system has.

1 Q. And so in your -- I know you're not going to let
2 me, but don't let me put words in your mouth.

3 A. I won't.

4 Q. Is a troubleman considered to have seniority over
5 a lineman?

6 A. No.

7 Q. Okay. Totally separate position?

8 A. Yeah. Yes.

9 Q. Okay. And separate job responsibilities?

10 A. Yes.

11 Q. And you talked about how you supervised a group
12 of employees that did patrols. And were those
13 troublemen?

14 A. Yes. In the transmission department, we called
15 them troublemen. That's a pay rate also. Even though
16 they weren't responding to customer homes and stuff that
17 you would normally associate with a troubleman with
18 PG&E. These were specialized individuals.

19 Q. Okay. And did your -- when you were there in the
20 90s, if you remember, approximately how many people did
21 you supervise?

22 A. Initially five, and then I was allowed to put
23 a crew on and I was told I could have four crew members.
24 A crew foreman, two -- three linemen and a truck driver.
25 So four. Two linemen and a truck driver.

26 Q. And when you were back there in 2006 to '09,
27 about how many people did you supervise?

28 A. Well, they changed my boundaries, so I only went

1 to Laytonville. Just to Laytonville. So I had three
2 troubleman, slash, inspectors and a six-man crew.

3 Q. Okay. And are you working with the same six-man
4 crew for the most part day in and day out during this
5 time period, '06 to '09?

6 A. There's some fluctuation, but yeah. A little
7 bit, but not very many. People would come and go but
8 not very often, because in transmission, when you took a
9 job in there you took a five-year commitment.

10 Q. Okay. And could you describe for us your
11 familiarity with the Geysers, the area of the Geysers?

12 A. I'm pretty familiar with it. I mean...

13 Q. Why is it, in terms of your time at PG&E, why is
14 it that you're familiar with the Geysers?

15 A. Well, I went up there originally in '72 as
16 apprentice lineman, constructing transmission line.
17 That was my first exposure. When I came back into
18 transmission, you know, years later, in '93, that was
19 one of the areas that I was a supervisor and have
20 responsibility, included the Geysers area.

21 Q. Okay. And I think you mentioned that your
22 geographic zone, looks like maybe it shank a little bit
23 when you went back to that position in '06?

24 A. Yeah. What they decided is having one supervisor
25 in a crew for that 2,000 mile, from here all the way to
26 above Eureka was a little bit, so they put a crew in
27 Eureka and they cut my area to Laytonville.

28 Q. Fair to say, though, that when you're back there

1 in '06 to '09 that your area still covered the Geysers?

2 A. Oh yeah, yes.

3 Q. Was your area approximately cut in half, or do
4 you remember how large your area was in terms of
5 transmission miles?

6 A. I don't remember how many miles it was after
7 that.

8 Q. Okay. And are you able -- well, would it be fair
9 to say, have you spent a considerable amount of time
10 during your career at PG&E up in the Geysers?

11 A. I don't know if I would use the word
12 considerable, no.

13 Q. Okay. If you could -- maybe you can't, but would
14 you be able to estimate how many times, how many days
15 you went up to the Geysers?

16 A. As a supervisor? Or --

17 Q. Just throughout your --

18 A. Throughout my career, no, I could not give you
19 that number.

20 Q. Is that because that's a large number?

21 A. Well, I was up there, so -- I don't even recall
22 exactly in '72 how many months I was up there. Somehow
23 I was thinking maybe towards the wintertime. Once the
24 winter kicked in it was pretty bad.

25 Q. Okay.

26 A. And then we got chased out.

27 So it was through the summer, I do recall that,
28 into the first part of winter in '72. So I don't know

1 how many days that is.

2 And then in '93 when I became the supervisor of
3 the area, I was there periodically. But I wouldn't
4 say -- you know, maybe once a month would not -- I
5 wouldn't even say I did it once a month. I went up
6 there when I had to.

7 Q. Okay. Are you familiar with the fact that there
8 are power plants up in the Geysers?

9 A. Yes.

10 Q. If you had to, would you be able to estimate
11 approximately how many power plants there are, at least
12 as of your retirement in '09?

13 A. I don't recall them all. There are unit --
14 numbered units, you know, 9-10. There was a unit 1, but
15 that went away years and years ago. I know there's
16 Bottle Rock, there's NCPA units 1 and 2. But all of
17 them, no, I don't recall them all.

18 Q. More than ten?

19 A. You know, I'm not real sure. I'm not sure.

20 Q. Are you able to define the difference between a
21 transmission line and a distribution line?

22 A. Yes, I could tell you.

23 Q. Okay. Could you tell us?

24 A. Well, for PG&E in the state of California, 60 KV
25 and above is considered transmission. 60,000 and above.
26 In this state. PG&E has lines 60,000 to 500,000.

27 Q. And lower than that would be a distribution line?

28 A. Yes, distribution, maximum voltage and

1 distribution is 21 KV. And they have 12, 17 in certain
2 areas. Down in Fresno it's got 17 and 4 KV.

3 Q. I'm sorry. What was the last one?

4 A. 4 KV. 4,000.

5 Q. As far as you know, at least as of the time you
6 retired, are you aware of any voltages that are between
7 21 and 60?

8 A. Yes, there is one. 34 KB.

9 Q. 34?

10 A. But that's for BART, and that has nothing to do
11 with the transmission line side. That's only the BART
12 system.

13 Q. That's for BART?

14 A. BART.

15 Q. Other than the voltage levels, are there any
16 other differences in terms of the purposes of a
17 transmission line versus a distribution line?

18 A. Yes. Transmission is to move bulk power around
19 the system. Or from a power plant, let's say, to the
20 grid. I mean I can't come up with a bunch of technical
21 terms for it, but essentially it's a transmission to
22 move power longer distances. Then distribution is for
23 residential and local.

24 THE COURT: Did you say bulk?

25 THE WITNESS: Yeah, bulk power.

26 BY MR. HENNING:

27 Q. Have you ever seen a single-family residence
28 connected to a transmission line?

1 A. No.

2 Q. And then similarly, have you ever seen a power
3 plant connected -- well, have you ever seen a power
4 plant deliver power to a substation via a distribution
5 line?

6 A. Not off the top of my head. It's not that it's
7 not impossible.

8 Q. Now, you mentioned that one of the power plants
9 is called 9 and 10.

10 A. Yes.

11 Q. You're familiar with that plant?

12 A. Yes, I am.

13 Q. And specifically, did we send you some documents
14 to review related to some work that your crew performed
15 near plant 9 and 10?

16 A. Yes.

17 Q. I'm going to show you -- this is an exhibit
18 that's already been received in evidence, and it's
19 marked People's 60. Do you recognize whether any part
20 of plant 9 and 10 is depicted in People's 60?

21 A. Any part of the plant?

22 Q. Yes.

23 A. Yes. The structure to the right side all belongs
24 to CalPine, and that's their takeoff structure.

25 Q. Sir, would you mind just using this pointer.
26 What's the takeoff structure that you're identifying?

27 A. Right -- this is CalPine property and this is
28 where your generated voltage would come out and enter

1 the system.

2 Q. Okay. And you can take a seat.

3 Can you approximate for us -- well, let me ask
4 you this. Do you recognize that tower that's to the
5 left of the takeoff structure that's in the center?

6 A. Yes.

7 Q. Okay. And do you know the identification number
8 of that tower?

9 A. For the circuit we're talking about is 0 over 1.

10 Q. Okay. And the circuit that we're talking about,
11 are there two circuits on that tower?

12 A. Yes, there are.

13 Q. And when you're using the term circuit in that
14 context, are you referring to a transmission line?

15 A. Correct.

16 Q. Do you recall the names of the two circuits or
17 transmission lines that are on this tower?

18 A. It's the Geysers 9 Lakeville, which is on this
19 side here.

20 Q. Okay.

21 A. And the other side of the tower has the Geyser --
22 I can't remember. Geysers something Fulton. I can't
23 remember.

24 Q. If I said Geysers 12 Fulton --

25 A. Yeah, that may be it. I don't recall, but I know
26 that goes to Fulton.

27 Q. And when you say that goes to Fulton, do you mean
28 it goes down to the Fulton substation in Santa Rosa?

1 A. Correct.

2 Q. And we sent you some documents related to work
3 that was performed in 2006. Do you know, had you been
4 to this tower or had you done work on this tower prior
5 to 2006?

6 A. Yes.

7 Q. Describe for us why it was -- describe your
8 experience with this tower.

9 A. It was a constant source of entertainment. It
10 was -- because of its location to this unit here over on
11 the side, what you don't see is the cooling towers for
12 the Geysers unit. And those cooling towers are
13 constantly spewing steam or, you know, vapors or
14 whatever and what are contained within that. That would
15 always go out over the tower. The prevailing winds
16 always pushed it towards that tower. And obviously
17 there -- originally this was all PG&E equipment,
18 obviously. But it would cause problems with arcing.
19 They would get operators up there -- even back when it
20 was PG&E's -- would call up. There were people who
21 would call me and say, hey, 01, that's lit up like a
22 Christmas tree.

23 Q. You said lit up like a Christmas tree?

24 A. Yes.

25 Q. What time in your career was it that you're
26 receiving these calls about this tower?

27 A. '93, '4, about '95, somewhere in those three,
28 four years.

1 Q. So during that time period when you were a
2 transmission line supervisor?

3 A. Right.

4 Q. And are you able to approximate how often, how
5 frequent it was that you received these phone calls?

6 A. Oh, maybe once or twice a year at least.

7 Q. Okay. And describe what would happen. How would
8 you fix that problem?

9 A. Well, what I ended up doing is -- because of the
10 level of contamination that was coming out of the
11 cooling tower, what I ended up doing is replacing the
12 insulators and then covering the insulators with
13 silicone grease.

14 Q. And we're going to talk about that, but just to
15 clarify, lit up like a Christmas tree. What do you mean
16 by that?

17 A. Well, the contamination would allow current flow,
18 and you could see arcing from the bottom to the top of
19 the string. It was usually on the suspension
20 insulators, which are the ones -- these ones here would
21 be the ones that would have the worst.

22 Q. Let me see -- maybe this will be better, but
23 maybe not. But showing you -- are you able to orient
24 yourself and recognize what's depicted in People's 61?

25 A. Yes.

26 Q. And what are we looking at in People's 61?

27 A. That's that same tower, just from a different
28 view. This being the direction where the takeoff

1 structure was for CalPine.

2 Q. And maybe it's a little clearer, but can you
3 point out on People's 61 where the arcing on the
4 insulators would occur?

5 A. Mostly on this right here. These here would arc,
6 and the arcing would run up but it wouldn't jump over to
7 the steel and relay the line. It would just keep
8 running up and down.

9 Q. And top, middle, bottom, are those sometimes
10 referred to as phases?

11 A. Correct.

12 Q. And you pointed at the top phase and the middle
13 phase. I just want to understand you. Does that mean
14 it didn't happen on the bottom phase?

15 A. No, all three strings would do that.

16 Q. Okay. And did you ever have that problem on any
17 of the other insulators, insulator strings depicted in
18 People's 61?

19 A. No, not to the extent that I had -- it would do a
20 little bit but not to the extent where I would worry
21 about the circuit.

22 Q. So it didn't happen on either -- so you don't
23 recall this happening on the Fulton side of the line of
24 the tower?

25 A. Well, normally there is no suspension. There's
26 no suspension insulators on this side. If you notice,
27 they just, the jump just goes straight across.

28 Q. So when you say suspension insulators, you're

1 referring to these vertically hanging --

2 A. Right.

3 Q. Okay. And how would -- I mean I understand we're
4 going to talk about your solutions in terms of replacing
5 the insulators and coating them with grease, but you're
6 saying there's arcing. How long had the arcing
7 occurred?

8 A. You mean from the time they called me until it
9 stopped?

10 Q. Yes.

11 A. Oh, it would stop probably by sunup. Once the
12 moisture, the moisture content in the air changed.

13 Q. So it would be arcing throughout the night until
14 weather conditions changed in the morning?

15 A. Yeah. And I have guy there monitoring.

16 Q. Someone would be there and they would stay there
17 to make sure there's no issue?

18 A. Well, yeah. If the arcing got to where it was a
19 solid line of arcing, a solid all the way up, then if
20 that happened he would have called me. And probably
21 would have dumped the line and went up there and wipe
22 the insulators or clean them or something.

23 Q. What do you mean dump the line?

24 A. Call up the operations center and ask them to
25 deenergize the line.

26 Q. But did you ever have to do that?

27 A. No.

28 Q. Okay. And how would -- I mean, how would your

1 crew even become aware that this was happening?

2 A. The crew?

3 Q. Well, in other words --

4 A. I don't understand.

5 Q. What alert would go out so that someone would
6 know it's even arcing?

7 A. Just the visual from people that work at the
8 Geysers, you know, prior to CalPine and PG&E folks.
9 There's people on 24 hours. If they saw it, they would
10 notify their folk at the Geysers. And then if it
11 continued they'd get ahold of the Fulton operations
12 center, and they would notify me.

13 Q. And you mentioned something a couple times. I
14 want to make clear so that it's clear to the Court.

15 At some point in time was that power plant 9 and
16 10 owned and operated by PG&E?

17 A. Yes.

18 Q. When you were the transmission line supervisor in
19 the 90s, do you recall whether at that point it was
20 still owned and operated by PG&E?

21 A. Yes.

22 Q. Then at some point --

23 THE COURT: I'm sorry, yes it was or yes you
24 recall?

25 THE WITNESS: Yes, I recall. Yes, it was PG&E.
26 And I don't remember the year. I don't remember the
27 year of the POR.

28 BY MR. HENNING:

1 Q. Okay. And I'm sorry, what do you mean by POR?

2 A. It's when -- I don't know what the destination of
3 that is. At the time we were looking at separating
4 transmission from the utility to the corporate.

5 Q. Okay. When you went back up -- excuse me, went
6 back into the position in 2006 as transmission line
7 supervisor, do you know who at that point in time owned
8 unit 9 and 10?

9 A. Yes, CalPine.

10 Q. And as far as you know, at some point in time
11 PG&E sold 9 and 10 to CalPine?

12 A. Yes. I don't remember the dates, but yes.

13 Q. Okay. I just wanted to make clear, because I
14 don't know if it was clear to the Court why PG&E owned 9
15 and 10 for some period of time.

16 So this arcing would be happening. We're back in
17 the 90s. And someone who's up there working maybe at 9
18 and 10, or driving down the road, they would see this
19 and alert you, or alert your crew?

20 A. They would alert their folks at the Geysers, and
21 then the Geysers supervisors for substation -- you know,
22 that's the term. I say the substation folks -- if they
23 thought it was critical or having a problem, they would
24 notify the operations center at Fulton, and they would
25 notify me.

26 Q. Did you have an opinion at the time as to why
27 this was only affecting these vertical support
28 insulators on the Lakeville side as opposed to the other

1 insulators?

2 A. I knew why.

3 Q. Could you explain that?

4 A. At the time, I don't remember the period of time
5 it was, but PG&E was injecting iron into the cooling
6 water system. And in our meetings with the Geysers
7 folks in Santa Rosa here, I asked them to make sure they
8 notify me prior to injecting iron. Obviously iron and
9 electricity, you don't really want them palling around.
10 So they agreed that they would let me know. Sometimes
11 they did and sometimes they didn't.

12 But when the iron was injected, the steam coming
13 off, it was a higher level of contamination than we were
14 used to seeing.

15 Q. In terms of higher level of what you were used to
16 seeing, are you saying that just generally speaking
17 there was contamination there?

18 A. Of course. I mean look at the tower. You've
19 seen that tower. There's no galvanizing left.

20 Q. Is that based upon the proximity of the tower to
21 the plant?

22 A. Correct.

23 Q. Back in the 90s when you're there, did the tower
24 look like that, or was it connected in some way to unit
25 9 and 10?

26 A. The connection points to CalPine or PG&E,
27 whatever, came from this end of the arm over -- had a
28 string of insulators like this, would have a piece of

1 hardware like this. You stick it out, string of
2 insulators, a conductor in a shoe, a clamp like you see
3 here, and it would go over to their structure with the
4 same thing on the other end. And the jumper -- the wire
5 would come through the insulators and down and make
6 connection point to these NEMA pads.

7 Q. If I showed you a picture, would you be able to
8 draw for us how it was connected back in the 90s?

9 A. I could. But what I can't tell you, I don't
10 recall, is did the top go to the left, top go -- you
11 know, I can't remember that part.

12 Q. You and I talked about this earlier. I'm going
13 to show you what's been marked People's 91.

14 Showing you what's been marked as People's 91. I
15 think, are you saying that you could show us, draw how
16 it was connected, but you're not sure which wire
17 connected to which insulator over here?

18 A. Yes. As you can see on the takeoff structure,
19 there's three positions for wire. These heavier box
20 steel. One, two and three. I just don't recall
21 which -- this one went to over here, or this one. I
22 don't recall that.

23 Q. But you do recall how it looked in the vicinity
24 of the tower?

25 A. Yes. Yes. Just, yes, there's a wire.

26 Q. So take your time. There's a few sharpies up
27 here.

28 A. Do you want all three of them drawn or just one

1 for reference?

2 Q. Why don't we stick with one for reference. And
3 if you could --

4 A. Which one do you want? Top, middle --

5 Q. Why don't you do the top. There's a little more
6 room. And if you can, can you use a different color for
7 the insulator, if there's an insulator?

8 A. That's what I was going to do.

9 THE COURT: Just for the record, the witness is
10 marking up which exhibit?

11 MR. HENNING: People's 90. It has not yet
12 been admitted.

13 THE WITNESS: They're -- the length isn't the
14 right distance.

15 MR. BORNSTEIN: I have no idea, your Honor,
16 what they just whispered to each other.

17 MR. HENNING: I asked him if red was the
18 insulator. I shouldn't have done that.

19 BY MR. HENNING:

20 Q. Did I whisper to you, "is red the insulator?"

21 A. Yes, you asked me if red was the insulator, and I
22 affirmed that.

23 Q. So I'm showing you People's 91. Does this bear
24 the blue and red -- is that what you just drew?

25 A. Correct, yes.

26 Q. And does this represent how the connection
27 appeared to be, approximately, when you were there in
28 the 90s?

1 A. Yes.

2 Q. Okay. And just for the Court's reference, the
3 strings of insulators, are those individual stacking
4 insulators?

5 A. Yes. They're a certain number, depending on
6 voltage and location, as far as altitude and whatnot.
7 So there could be 17 -- say in the dead end string,
8 which is the horizontal, called dead end, and vertical.
9 So the vertical, I don't remember exactly how many
10 insulators. Probably you could count them, I guess.

11 Q. And I just -- this is just to the best of your
12 recollection. The insulators that would have been up on
13 the line, it would have been the number of insulators
14 that was required for the voltage?

15 A. Correct. And the location.

16 Q. Okay. Now moving -- so we're still back in the
17 90s, you said you're getting these calls, I think you
18 said once or twice a year at least?

19 A. At least, yeah.

20 Q. Could be more than that?

21 A. I don't recall a lot of calls, though. I mean I
22 already knew the problem, and we were working on a
23 solution. A long-term solutions instead of a wash or
24 something like that. But I wouldn't say -- I would say
25 through the winter, maybe two or three times.

26 Q. Can you explain to us how you wash insulators?

27 A. There's several methods. The old style one that
28 I was familiar with, because it was a long time ago, is

1 you would send an apprentice lineman, de-energize the
2 line, ground the line. You would send guys up there and
3 they would take rags and Scotch-Brite and clean the
4 insulators by hand. That was a long time ago, which we
5 did quite a bit of.

6 Then later on we came up, we had to wash -- a way
7 to wash them while they were still energized. In the
8 90s we ended up with a vehicle that had a boom that
9 would extend out 150 feet, and at the end it has a
10 nozzle that's totally articulating and a huge tank of
11 water, and then we would be able to wash insulators
12 while the line is energized via that truck.

13 And then after that we came upon heliwash and
14 then we started using helicopters to wash the line.

15 Q. And then the solution you came up with was to
16 replace the insulators?

17 A. Yes. One of the things we were looking to do was
18 replace all the insulators there with a polymer
19 insulator, which is not a ceramic insulator. The
20 insulators that are up there right now in that picture
21 are all ceramic. We were looking at polymers, because
22 essentially a polymer absorbs the contamination. And
23 the problem with polymers is they didn't have in those
24 days a good track record, and we weren't going to take
25 the chance of losing that circuit or any circuit due to
26 insulator failure, which is -- you don't want to have
27 that.

28 So what I proposed that we do is we just use

1 silicone grease on the insulators every couple of years,
2 depending on the contamination level when we observe it.
3 And you could see, and I don't know if now you can see
4 it, but the insulators -- the silicone grease, because
5 we weren't putting it on with a machine, it was by hand,
6 it was fairly thick. And at the end of a cycle, maybe
7 two years, the contamination was fairly significant.
8 Where instead of trying to clean it off, we just dropped
9 the insulators off, put new ones and put some more
10 silicone. And that worked like a charm.

11 Q. So the coating of silicone, the purpose was to
12 absorb contamination coming off of 9 and 10?

13 A. Correct. Correct.

14 Q. And when you say worked like a charm it, it
15 prevented this arcing from happening?

16 A. Yes, that's correct.

17 Q. And when you say replace every two years, do you
18 mean the silicone coating?

19 A. No. It was too hard to remove the silicone off
20 of there, so it wasn't worth the effort. We would just
21 replace the whole string of insulators.

22 Q. And there's a number of insulator strings on this
23 tower. Which ones would you replace?

24 A. All of them.

25 Q. Is that all of them on both circuits?

26 A. Yes.

27 Q. Okay. And so I'm counting. I think there would
28 be 9 insulator strings on the Lakeville side?

1 A. Two, four, six, seven, eight, nine, and then on
2 the other side, two, four, six, eight, ten, 12.

3 Q. So those would all get changed every two years?

4 A. It is my recollection is that's what I put in
5 for, yeah.

6 Q. When you say you put in for, could you describe
7 what you did?

8 A. I would get the operations center, the
9 coordinators, and explain what I wanted to accomplish in
10 the timeframe so that they could look out those two
11 years and longer and look at the system.

12 Of course they worked directly with the system
13 operators, at the time was in San Francisco, and then
14 also with the ISO.

15 Q. Okay. And ISO, is that a state agency?

16 A. That's a state agency, yes.

17 Q. You left approximately '95 to '97, somewhere in
18 there, from that position. Do you remember how many
19 times you had to change the insulators before you left
20 the position?

21 A. No, I don't. I don't remember exactly.

22 Q. At least once?

23 A. Yeah, at least once, probably twice while I was
24 there in that time period.

25 Q. You came back to the same position in 2006.

26 A. Yes.

27 Q. Do you know whether those insulators were changed
28 during that time period?

1 A. I don't recall even going -- trying to go back
2 through any records. I don't recall doing that at all.

3 Q. Okay. Now let's talk about the work that you
4 were there to do in 2006.

5 Do you have -- prior to reviewing the documents
6 that were sent to you, do you have an independent
7 recollection of this work?

8 A. Oh, yeah.

9 Q. And what was it about this work that you had an
10 independent recollection?

11 A. Because of that tower. I mean that unit 9-10, I
12 knew the tower, I knew that -- through the e-mails,
13 obviously, that we were -- that CalPine had wanted us to
14 drop the conductor out.

15 Q. And when you say they wanted you to drop the
16 conductor out, could you please point on --

17 A. This?

18 Q. It's actually 91. I've been calling it 90. I'm
19 sorry.

20 A. What's that? I'm sorry.

21 Q. I was just correcting the record.

22 A. These drops from here to here to here, it's all
23 owned by PG&E. That is PG&E's facility, including these
24 insulators. These insulators belong to CalPine. So
25 when they called, they wanted to drop this out.
26 Actually all three of them. That was the job that they
27 had asked us to do.

28 Q. Okay. I'm going to show you a series of

1 documents, starting with what's been marked People's 72,
2 which is a two-page document with an e-mail chain that's
3 at the top dated April 4, 2006.

4 Let me just bring these up to you. I'm not sure
5 you'll be able to read them.

6 A. I already know what it says, so whatever you want
7 to do.

8 Q. So starting with what's been marked People's 72,
9 do you recall reviewing this e-mail chain?

10 A. No, I don't recall it.

11 Q. Okay.

12 A. I don't recall reviewing that today. And this
13 was 7:43 in the morning on 4-20, 2006. No, I don't
14 recall.

15 Q. So this is an e-mail chain from almost 16 years
16 ago.

17 A. Correct.

18 Q. And at the top, is that an e-mail sent from you?

19 A. Yes.

20 Q. And I know that you're saying you don't have an
21 independent recollection. Do you have any reason to
22 question whether that was you who sent this e-mail?

23 A. No, no doubt that I sent it.

24 Q. Okay. No doubt that you sent it.

25 And it looks like at the bottom of this page it
26 starts with an e-mail that -- it wasn't sent to you
27 initially, but eventually it was forwarded to you?

28 A. I think it was attached to this. That's the only

1 reason I would have saw this part, yeah.

2 Q. Okay. And does that e-mail reference the work
3 that CalPine wants you to do, that you just described?

4 A. Dropping the leads from the first tower coming
5 out of the Geysers 9 and 10. The scope of work.

6 Yes, essentially that's asking us can you do this
7 while you're there doing those insulators.

8 MR. HENNING: Okay. And your Honor, can you
9 hear the witness?

10 THE COURT: I can hear, thank you.

11 BY MR. HENNING:

12 Q. And you just pointed out on the last exhibit you
13 were dropping the leads, now removing that part of the
14 line?

15 A. Yes.

16 Q. Is there anything about this e-mail that doesn't
17 make sense to you in terms of the scope of the work?

18 MR. KRAVIS: I'm sorry. Is this being moved
19 into evidence? Because the witness is just reading from
20 the document.

21 MR. HENNING: Yes. I would be moving this into
22 evidence.

23 MR. KRAVIS: No objection.

24 THE COURT: It will be received.

25 (Whereupon, People's Exhibit 72 received in
26 evidence)

27 MR. HENNING: Thank you.

28 BY MR. HENNING:

1 Q. Is there on People's 72, this e-mail chain, is
2 there anything there that is confusing to you, whether
3 it's the scope of the work described or anything like
4 that?

5 A. No. I mean from this gentleman at CalPine who
6 sent it to Kim Gutierrez, I'm not sure this information
7 about these switches, additionally this, and worrying
8 about potential line relay action due to -- that has
9 nothing to do with what I understand.

10 This from Kenny Gutierrez, would it be possible
11 to drop the leads out there, out at 9 and 10, mothball
12 it during the coming clearance.

13 Q. So --

14 A. And I said yes.

15 Q. So the first e-mail is sent from CalPine to Ken
16 Gutierrez?

17 A. Yes.

18 Q. Who's Ken Gutierrez?

19 A. He was an operator at Fulton operations center.

20 Q. At PG&E's center?

21 A. Yes.

22 Q. And that first e-mail makes reference to a number
23 of items that CalPine is requesting?

24 A. Maybe. I don't know that part.

25 Q. Okay. But you do understand when Kenny is
26 forwarding it to you, asking you can you do this part of
27 the work?

28 A. Yes, I understand what he wanted from me, yes.

1 Q. And what did Kenny want you to do?

2 A. During this time period that we were doing this
3 other work, Kenny dropped the line out. Included in the
4 work.

5 Q. I'm going to show you what's marked People's 73.

6 MR. KRAVIS: I'm not agreeing to the admission
7 of that one yet.

8 MR. HENNING: Okay.

9 BY MR. HENNING:

10 Q. Well, do you recognize what's depicted in
11 People's 73?

12 A. Yes, I've seen this before.

13 Q. Okay. What is this document? Explain it.

14 A. Electric line notification.

15 Q. And what is an electric line notification?

16 A. It's a way to identify work or anomalies or
17 other -- it's something that may not be correct and how
18 to shape the work and get it in the plant system.

19 Q. And are there entries on this document, People's
20 73, specific to a type of job?

21 A. It says that -- yes. Replace dead end
22 insulators --

23 THE COURT: Wait a minute. Before he reads
24 from the document, it hasn't yet been admitted into
25 evidence.

26 THE WITNESS: Sorry. I'll stop.

27 BY MR. HENNING:

28 Q. Were you part of the creation of this document?

1 A. My headquarters was, yes.

2 Q. And was this document -- were you -- your
3 headquarters was part of it. What about you
4 individually?

5 A. Yeah, I'm the one who initiated this, yes.

6 Q. So you initiated the creation of this electric
7 line notification?

8 A. Correct.

9 Q. And is this something that you would have done --
10 is this document date stamped?

11 A. Date reported, date desired start. Yes.

12 Q. Is that contemporaneous with when you would have
13 initiated this?

14 A. What?

15 Q. Would you -- is this document created or is this
16 put in the system when you entered it?

17 A. What I would do typically is fill out a version
18 of this on a piece of paper, pen and pencil. Give it to
19 the clerk, and say, Hey, I need a notification. Here's
20 the details. And then Jackie Good, who was the clerk
21 who did it, would enter this into the SAP, or the system
22 used at the time -- I don't know what they're using
23 now -- to create this document. And within the system
24 it says, Hey, there's work out there on this line at
25 this time, on and on.

26 Q. Okay. And so this document is a typed-in version
27 of what you would direct to your clerk, Jackie Good, to
28 create?

1 A. She would create this in the system, yes.

2 MR. HENNING: I would ask to move People's 73
3 into evidence.

4 MR. KRAVIS: Objection. Lack of foundation.

5 THE COURT: Sustained.

6 MR. HENNING: Okay.

7 BY MR. HENNING:

8 Q. Let's look at People's 74. Do you recognize
9 what's depicted in People's 74?

10 A. Yes.

11 Q. Focus on the top. Is this an e-mail that you
12 received from Jim Bowden?

13 A. It was sent to Jackie, my clerk, to affirm how we
14 would account for the insulator removal on that
15 conductor that were being removed. But I'm cc'd, so
16 yes, I did read it.

17 Q. Okay. Who's Jim Bowden?

18 A. He's a senior maintenance construction engineer.
19 He would be the one to make sure all the dollars and
20 accounts are taken out of the right places for that
21 particular type of work.

22 Q. Okay. And was he a type of engineer that would
23 consult with you before you did construction work?

24 A. No.

25 Q. Okay. He would -- his job duties were focused on
26 budgetary issues?

27 A. Pretty much.

28 Q. Okay. And do you recall working, though, with

1 Jim Bowden?

2 A. For many years.

3 Q. Okay. And this is an e-mail that you were cc'd
4 on that you received from Jim Bowden?

5 A. Yes.

6 MR. HENNING: I would ask to move People's 74
7 into evidence.

8 MR. KRAVIS: Objection. Lack of foundation,
9 hearsay.

10 MR. HENNING: It's an admission. It's made by
11 PG&E. An e-mail from a PG&E employee.

12 MR. KRAVIS: I don't think there's foundation
13 for that either.

14 MR. HENNING: He testified he's an MFS engineer
15 at PG&E.

16 MR. KRAVIS: Every written statement of every
17 PG&E employee is not an admission of a party opponent
18 for these purposes. That's not right.

19 THE COURT: That's an interesting issue I
20 haven't considered. Do you want to move on and we can
21 come back to this?

22 MR. HENNING: Sure.

23 BY MR. HENNING:

24 Q. Who was on your crew that you worked with back in
25 2006?

26 A. Steve Cincera was the crew foreman. I had a
27 lineman, Wrenn Rittenhouse. I had a lineman -- who else
28 was there? I don't know if Chad Watts was on my crew at

1 that time. Tim Ritchie was a journeyman lineman. Ryan
2 Hessong (phonetic) was an apprentice at that time still.
3 Ken Sullivan, equipment operator. And I think there was
4 another guy that I had. I don't know why I don't recall
5 his name. Joe Pacucci (phonetic). I think he was also
6 around at that time. Whether they were on that job site
7 or not I don't recall.

8 Q. Do you recall, did you go up to the tower in May
9 in 2006 to do this work?

10 A. The day it was done?

11 Q. Yes.

12 A. I don't recall.

13 Q. Do you recall whether it was in 2006?

14 A. Yes, I went up a couple days prior to the job
15 with Steve and some other folks.

16 Q. With Steve?

17 A. With Steve Cincera and I, we went up there, and
18 there was some other folks that went up there with us
19 and we looked at the job.

20 Q. Okay. And you mentioned that you didn't consult
21 with Jim Bowden. Is this the type of work that you
22 consulted with an engineer on?

23 A. No.

24 Q. And you went up there. About how long in your
25 recollection did the work take?

26 A. I wasn't there, but which part of the work? The
27 dropping the line out or the insulator replacement?

28 Q. Both.

1 A. I don't know. You'll have to ask Steve. I don't
2 remember.

3 Q. I mean --

4 A. It's a day's -- it's a good day's work.

5 Q. It's not a month long job?

6 A. No, no, no.

7 Q. Okay.

8 A. That's just for that one circuit, though. Let's
9 be clear about that. Just the one side.

10 MR. HENNING: Okay. And I'm going to ask -- I
11 would ask to move People's 91 into evidence.

12 MR. KRAVIS: No objection.

13 THE COURT: It will be received.

14 (Whereupon, People's Exhibit 91 received in
15 evidence)

16 BY MR. HENNING:

17 Q. Now, you've drawn on this earlier. You depicted
18 how it was connected in the 1990s. Describe the work
19 that you and your crew did in 2006.

20 A. Well, the job task was to remove three of those
21 taps. Three of these. One from here, one from here and
22 one from here. Remove those and replace and re-silicone
23 these insulators on this side of the tower.

24 Q. And the way that -- let me show you again
25 People's 61.

26 Actually, People's 60. Does People's 60, in
27 terms of the configurations of the jumpers on the
28 Lakeville side of the tower, does that depict -- just

1 focus on the middle and bottom phases. Do those depict
2 what I would call the final product of your work back in
3 2006?

4 A. Like I said, I wasn't there when they completed
5 the work, but I would -- if I was -- I don't know. That
6 was something that Steve Cincera can help you with. But
7 I do believe that was the final -- when we left that's
8 what it looked like.

9 Q. So when you left that's what it looked like?

10 A. Correct.

11 Q. Okay. Focused on -- we're not talking about the
12 top phase, just the middle phase and the bottom phase.

13 A. Right. The only thing that I'm not sure of is
14 this droop here and here. I don't believe that it would
15 be drooping like that. It would have probably been up
16 more.

17 Q. Okay. And what would you have done if it had
18 been drooping like that?

19 A. Well, I mean, when we -- the jumpers were still
20 there, that jumper goes kind of up a little bit. So
21 when you remove that little bit of weight, it's probably
22 they droop down, but the distance required by the state
23 from here to here is a minimum distance you can be --
24 don't quote me, but it was 54 inches.

25 Q. Okay.

26 MR. HENNING: Your Honor, I'd ask to move
27 People's 92, 93 and 94 into evidence.

28 MR. KRAVIS: No objection.

1 THE COURT: They'll be received.

2 (Whereupon, People's Exhibits 92, 93 and 94
3 received in evidence)

4 BY MR. HENNING:

5 Q. Before I put these up, could you take a moment
6 and look at 92, 93 and 94?

7 And are you able to tell us -- take a moment to
8 orient yourself.

9 Well, first off, do you recognize what's depicted
10 here?

11 A. I think it's a picture of the same thing. Just
12 three different views.

13 Q. Okay. Does this appear to be depictions of the
14 Lakeville side of the tower that's depicted in People's
15 60?

16 A. Yes. Yes.

17 Q. And you've mentioned that some of these --
18 there's a droop on the middle and bottom phases. Other
19 than droops that might be depicted in these photos, do
20 these photos depict the tower as you guys left it in
21 2006?

22 A. I would say yes.

23 Q. Okay. If you look -- is there anything that you
24 can orient yourself in the background of what looks like
25 maybe a top phase versus a bottom phase?

26 A. Well, the only thing that I see a difference in
27 each one is the length. This is -- these tails sticking
28 out, I'm not sure -- this one is longer. This is

1 obviously -- would be probably the middle phase right
2 here, but I don't recall.

3 Q. Okay. And looking at People's 92 and 93, do each
4 of those depict that there's some crossarm beneath the
5 jumper cables?

6 A. This ones do, yes.

7 Q. Based upon that do you have an opinion about
8 which phase People's 94 might be?

9 A. This is the bottom phase.

10 Q. So People's 94 appears to be the bottom phase?

11 A. Right. There's nothing underneath. This is the
12 top phase.

13 Q. And you're pointing at People's 92?

14 A. 92. This looks like the top phase here.

15 Q. Okay. And looking at People's 60 in terms of the
16 ends of these jumpers, does that also correspond to the
17 ends of the jumpers depicted --

18 A. Yes. You can still see the NEMA pads, yes.
19 Here, here and here.

20 Q. So now you've had a moment to orient yourself and
21 review, do you believe that People's 94 shows the bottom
22 phase of the Lakeville side of this tower?

23 A. I don't see anything underneath it. I'll go with
24 you. I don't see any other arms underneath it, so let's
25 say I would think that would be the bottom.

26 Q. Okay. And do you believe that People's 92
27 depicts the top phase?

28 A. You know, I don't see the difference in these

1 two, really.

2 Q. Okay. Well, let's move on. I'll take those.

3 Would it be fair to say People's 92, 93 and 94
4 depict the Lakeville side of the tower when you guys
5 left in 2006, with the exception that you couldn't tell
6 the difference between the top and middle phases?

7 A. Yes.

8 Q. Okay. I'm going to show you what's been marked
9 as People's 93. You looked at -- oh. Thank you.

10 You talked about earlier when you were looking at
11 the exhibit that you just placed on the ground a
12 droopiness on the jumper configuration.

13 Looking at People's 93, do you see that
14 droopiness that you were referring to earlier?

15 A. Yes.

16 Q. Can you use that pointer to point out the
17 droopiness that you saw?

18 A. From the plate, and it's hanging down here
19 (indicating).

20 Q. Okay. And is it your testimony that would not
21 appear like that when you guys left the job site in
22 2006?

23 MR. KRAVIS: Objection. Leading. Lack of
24 foundation also.

25 THE COURT: Sustained.

26 BY MR. HENNING:

27 Q. Did it appear like that, the end of that jumper
28 configuration, when you left the job site in 2006?

1 MR. KRAVIS: Objection. Lack of foundation.
2 He doesn't remember if he was there.

3 MR. HENNING: He earlier said it didn't look
4 like this when he left.

5 THE WITNESS: I didn't say that. I wasn't
6 there.

7 THE COURT: Your objection is saying he wasn't
8 there, so he can't answer the question.

9 MR. KRAVIS: That he doesn't remember if he was
10 there or not, I think was the testimony.

11 THE COURT: I don't recall him saying that. I
12 thought he said he wasn't there when he finished the
13 job, but he left at some point, so whatever observations
14 at the time that he left would be his observations.

15 MR. HENNING: I'll move on.

16 THE COURT: All right.

17 BY MR. HENNING:

18 Q. Let's just clear this up. When were you there in
19 2006 when the work was being performed?

20 A. When the work was being performed. That assumes
21 I'm there. I said I was there a day or two ahead of the
22 job. I don't recall ever being there during the job,
23 and I can't tell you when I was there after the job was
24 completed. I don't recall.

25 Q. So you don't have an independent recollection of
26 being there when the crew was dropping the leads off the
27 tower?

28 A. No, I do not.

1 Q. Okay. And you also don't have a recollection of
2 being there when the insulators were replaced?

3 MR. KRAVIS: Objection. Leading.

4 THE COURT: Sustained.

5 BY MR. HENNING:

6 Q. Do you have a recollection of being there at any
7 point when the insulators were being replaced?

8 A. I do not, no.

9 Q. You do not?

10 A. No, I don't remember being there during the
11 insulator replacement phase.

12 Q. Other than being up there a few days beforehand
13 with Mr. Cincera, what are your recollections of being
14 there at the job site in 2006?

15 A. Well, we looked at how we were going to
16 accomplish the task by dropping those out. Replacing
17 insulators was fairly straightforward. We had all the
18 details we need as far as weights and strings to do it
19 safely with the proper tools.

20 And then if I remember, we probably talked about
21 how we were going to control those -- they're called
22 bundle jump, bundle line. So there's two wires per
23 phase, and we had to control those. So we probably
24 said, Hey, we'll just bolt them together and that will
25 secure them. They can't go anywhere, they can't make
26 contact below or go above, and that will suffice
27 because -- and we didn't entertain cutting. That didn't
28 cross our minds, simply because that would have been the

1 wrong thing to do at the time.

2 Q. Explain what you mean by bolting the two
3 together.

4 A. Well, those connectors, let's call them, at the
5 end of each one of those right here, those two
6 connectors I believe are four bolt. And what we did is
7 you take the bolts, bolt them together and tighten them
8 up so they stay flat, secured to each other.

9 Q. Okay. And you say we didn't talk about cutting.
10 What do you mean by that?

11 A. Well, you know, some people would think, Hey, if
12 you're smart why don't you just cut it off right here,
13 and move everything out of there and you're done.

14 MR. KRAVIS: And for the record, I saw the
15 witness using the pointer to indicate the middle left of
16 the photograph where the clamp meets the jumper.

17 THE COURT: Okay. Thank you.

18 BY MR. HENNING:

19 Q. So are you saying that -- you're saying some
20 folks would say that. Are you saying you talked about
21 that?

22 A. No. We wouldn't even entertain it.

23 Q. Okay. So you didn't have any conversation --

24 A. No.

25 Q. -- about -- and I'm going to just -- you didn't
26 talk about the idea of cutting right here?

27 A. No. Absolutely not.

28 MR. KRAVIS: For the record.

1 MR. HENNING: Thank you for the prompt.

2 BY MR. HENNING:

3 Q. I'm pointing to the wire just to the right of the
4 connector on People's 93.

5 Can you -- I've heard a number of terms for it.
6 Can you identify for us this piece of equipment right
7 here?

8 A. Some people call it a dead end shoe. In the
9 industry it's called a quadrant clamp.

10 Q. And have you ever heard it called a six-bolt
11 connector?

12 A. A six-bolt?

13 Q. A six-bolt connector?

14 A. No.

15 Q. So quadrant clamp or dead end shoe.

16 A. Yes.

17 Q. Thank you.

18 And he's referring to the hardware that's just
19 beneath the two parallel insulator strings on People's
20 93.

21 When you talked about doing this work ahead of
22 time with Mr. Cincera, what if any discussion was there
23 about whether this configuration could move in the wind?

24 A. I don't recall that.

25 Q. You don't recall?

26 A. I don't recall talking about wind.

27 Q. And let's talk about the Geysers in general.

28 Have you -- can you describe whether the Geysers

1 experiences windy conditions?

2 A. It has. It does. It gets windy up there.

3 Q. Okay. How would you describe the wind conditions
4 up there compared to where we are down here in Santa
5 Rosa?

6 A. Fluctuates like anything else. I don't know what
7 you're looking for.

8 Q. Okay. I'm just looking for --

9 A. I'm telling what my experience up there is it
10 gets hotter than hell. It gets windy and then it's
11 nice. Sometimes. Not as much nice as, you know, but...

12 Q. And so it does get windy?

13 A. It does get breezy, but nothing I haven't seen
14 before in Sausalito.

15 Q. Okay. Nothing you haven't seen before in
16 Sausalito. Why do you use Sausalito?

17 A. Well, there's towers up on the hill above
18 Sausalito. And the same. High ridge, and it gets windy
19 up there too.

20 Q. Okay. You chose a location outside of Sonoma
21 County. Can you compare the windy conditions in the
22 Geysers to elsewhere in Sonoma County?

23 A. There's not as many places in Sonoma County that
24 I'm aware of that's over 3,000 feet like that, but
25 only -- still not -- no, not really.

26 Q. Okay. And the elevation up in the Geysers, do
27 you know, in your opinion, does that contribute to the
28 windy conditions?

1 A. I don't know that the altitude -- I know it's
2 above 3,000 feet at a lot of locations, but I don't know
3 if that contributes to wind. I don't have that
4 expertise.

5 Q. I asked you to compare it to Sonoma County. You
6 said you couldn't think of anywhere else.

7 A. I can't think of anyplace else except for
8 maybe -- places I've been. But it was up Calistoga Road
9 at the top of St. Helena maybe, but I don't know if
10 that's Napa County.

11 Q. Okay. I don't either. Fair enough.

12 But you have experienced windy conditions in the
13 past?

14 A. (Witness nods head)

15 Q. I saw a head nod.

16 A. Yes, I have seen windy conditions at the Geysers.

17 Q. But before this work was done in 2006, your
18 recollection is that you and Mr. Cincera, you didn't
19 discuss whether wind would affect it?

20 A. We probably -- no, we didn't discuss the wind as
21 part of our tailboard and our decision-making on tools,
22 equipment, safety and all that.

23 Q. Okay. And you just used some jargon that I know
24 that I don't think the judge knows. What do you mean by
25 tailboarding?

26 A. In PG&E before you do any task, even a single
27 member has an obligation to tailboard himself, but as
28 a crew you talk about the work, what you're asked to do,

1 how you're going to accomplish it, what are the safety
2 concerns, what are the risks involved, and then how
3 you're going to mitigate those. So that everybody on
4 the crew knows what everybody else is going to do. And
5 if somebody shows up on the job site -- so if they're in
6 progress and I show up, they stop, and then they
7 tailboard me on the safety hazards and everything. So
8 everybody is always aware of what's going on.

9 Q. Okay. And do you recall when this tailboard
10 occurred in relation to the work?

11 A. We had a tailboard prior to the crew going there
12 on that day. The day they dropped the wire.

13 Q. Where was the tailboard?

14 A. At the structure.

15 Q. Were you up there?

16 A. Yes.

17 Q. So you were up there the morning that the work
18 was performed?

19 A. No, I don't recall that. We were up there prior
20 to -- some days prior to that. There was Steve and I
21 and some other folks that went up there. I don't recall
22 the date, but there is an e-mail in one of your things
23 about it, about the request to the security that says,
24 Hey, these folks are coming up there tomorrow to do a
25 job that's going to be done on a certain date. I don't
26 recall who all it was with, but I know Steve and I
27 met -- I don't recall if it was Chad Watts and some
28 other folks.

1 Q. I'm a little confused. Were you present when the
2 tailboard was had the morning that the work was done?

3 A. No, I don't recall being there.

4 Q. So you're saying based upon general PG&E practice
5 you believe there would have been tailboarding?

6 A. The morning of the work?

7 Q. Yes.

8 A. Absolutely.

9 Q. But you weren't there for it?

10 A. Didn't have to be. But there's a written
11 document that has to be filled out every morning, and it
12 is part of the record of the job.

13 Q. Okay. So there would be a written document
14 related to this tailboard?

15 A. Typically -- I'm trying to think, in 2006, I'm
16 trying to remember if those documents came into play
17 yet.

18 Q. So maybe there wasn't a written document?

19 A. I don't recall that that -- if they were in force
20 at the time, it would be a matter of record, which would
21 attest who was there, what was talked about and what was
22 identified.

23 Q. Okay. And did you go back up there when the work
24 was completed?

25 A. I probably did. I just don't recall the date. I
26 probably was up there sometime between this -- their
27 initial drop in that, changing those insulator, and I
28 believe it was October they did the other side. So at

1 some time I was there, yes.

2 Q. Okay. Do you recall going up there and having a
3 chance to look at the work that was performed on the
4 Lakeville side of the tower?

5 A. I don't recall it. I don't know the date, but if
6 I was there I'm sure I looked at it.

7 Q. But you don't have an independent recollection?

8 A. No, sir.

9 Q. Now going back to People's 91, which is up on the
10 TV screen behind you. When they performed the work, all
11 of this blue line that you drew was removed?

12 A. Affirmative. Yes.

13 Q. And the red insulators, the one on the right that
14 was Calpine's responsibility, and the one on the left
15 that was PG&E's responsibility, were removed?

16 A. That's correct.

17 Q. Okay. And my question is, would removing this
18 insulator right here and this connection point right
19 here to the line, would this make this configuration
20 more susceptible to moving in the wind?

21 A. On the other picture that you have with the blue
22 line --

23 Q. Hold on one second.

24 A. -- that's a continuous piece of wire that goes
25 through those NEMA pads through that quadrant clamp and
26 so it's continuous. There's not another connection
27 point.

28 Q. Okay.

1 A. So it's one piece of wire, goes through there, up
2 through all the way to the other side, down that
3 quadrant clamp. All one piece.

4 Q. Let me ask you this way. Would you have an
5 opinion, back when it was configured like this --

6 A. Yes.

7 Q. -- do you have an opinion as to the ability of
8 this vertical insulator to move in the wind?

9 A. Yes. It moves in the wind.

10 Q. Okay. How much does it move in the wind?

11 A. I don't know. I never been up there and watched
12 it or measured it. I don't know.

13 Q. Okay. And what about when this isn't there, when
14 it's configured like this? Can this move in the wind?

15 A. Well, the weight didn't change, so again, I'm not
16 a wind calculator. I don't know. There are people who
17 do that for PG&E.

18 Q. Okay. Were there any wind calculations done
19 prior to performing this work in May of 2006?

20 MR. KRAVIS: Objection. Lack of foundation.

21 THE COURT: Overruled.

22 Do you know if any wind calculations were done?

23 THE WITNESS: I imagine when they designed it
24 and build it, it's part of the design criteria. PG&E
25 designs at eight pounds of wind across one foot of
26 conductor for one minute. Now eight pounds is roughly
27 57 miles an hour, and that's -- it has to be included in
28 their calculations of wind and movement and weights and

1 all that. It's all part of the design criteria.

2 THE COURT: So I guess the question is do you
3 personally have knowledge whether that was done?

4 THE WITNESS: No. Well, the design
5 calculations, that's what they're required to do.

6 BY MR. HENNING:

7 Q. Okay. You're talking about when the tower itself
8 was designed in the 1970s?

9 A. 70s, yeah.

10 Q. 70s or 80s.

11 A. Yeah.

12 Q. And my question to you, though, is when you did
13 this work to disconnect the line from CalPine 9 and 10,
14 or Geysers 9 and 10, excuse me, were there any wind
15 calculations made at that time?

16 A. Not that I'm aware of.

17 Q. Was there any -- did your crew -- so you've told
18 us you didn't consult with anyone outside of your crew.

19 A. Consult with for?

20 Q. Any engineers?

21 A. Nope.

22 Q. Okay. And to the best of your knowledge, did
23 anyone in your crew consult with any engineers before
24 doing this work?

25 A. Not that I'm aware of.

26 Q. And so having not done these wind calculations,
27 are you able to say whether this configuration would be
28 more susceptible to movement in the wind compared to the

1 original configuration?

2 A. Again, I don't know that. I don't know what wind
3 does across that insulator. Somebody may know. I
4 don't.

5 Q. Okay. How much would you expect to see this
6 jumper configuration able to move in the wind?

7 MR. KRAVIS: Objection. Vague as to when,
8 because we have two different pictures.

9 MR. HENNING: I was just looking at People's --

10 THE COURT: Sustained. It's also vague as to
11 wind. How fast is the wind blowing and from what
12 direction.

13 MR. HENNING: Okay.

14 BY MR. HENNING:

15 Q. What's depicted in People's 94, the jumper
16 configuration -- well, let me ask you this. What is the
17 purpose of this vertical -- vertically hanging
18 insulator?

19 A. It's a jumper support.

20 Q. Other than support, does it serve any electrical
21 function?

22 A. Well, they are insulators, so yes, they're
23 keeping any voltage. But they're supporting that.
24 Their design criteria -- within the state of California
25 there's rules, and it says that wire cannot be more than
26 this distance close to the steel or to a climbing leg or
27 whatever. There's specific measurements. That
28 maintains that jumper at that distance.

1 Q. Okay. And do you know whether this is heavy?
2 These vertically-hanging insulators?

3 A. Those are fog insulators. Those are probably
4 about four pounds each, except for the last one closest
5 to the yolk at the bottom, and that's a standard. So
6 they're four pounds each at least.

7 Q. Okay. And you pointed something out. I'm glad
8 you did.

9 The individual insulator at the bottom of that
10 string is a different size from all the insulators
11 above?

12 A. It's a standard as opposed to a fog.

13 Q. Okay. A fog insulator, is that heavier than a
14 standard insulator?

15 A. Yes, it has more ceramic surface area.

16 Q. Other than complying with space requirements from
17 a jumper from the tower, what is the purpose? What is
18 that support string serving as a purpose?

19 A. I don't know how many times -- I don't understand
20 what you're looking for. You got me kind of perplexed.
21 You keep saying the same thing over.

22 They're insulators to insulate that jumper to
23 keep it a certain distance and support that bundle
24 conductor. That's it. They're supporting that jumper.
25 It's an angle tower. Whether CalPine was there or not,
26 it would have that jumper support. That has no bearing
27 on anything. Just because there's a tap there. Because
28 the other side of the tower you notice there are no

1 jumper supports, because the wires are going off at an
2 angle that doesn't require them.

3 Q. Let me ask you this. And I'm not trying to trip
4 you up. And so when you don't understand what I'm
5 getting at, it's the way I'm asking the question. So
6 feel free to let me know I'm not asking a good question.
7 I'll rephrase it.

8 A. Okay.

9 Q. Earlier you said that you would never consider
10 cutting right here outside of -- and I'm pointing next
11 to the dead end shoe on People's 94.

12 A. Yes.

13 Q. Can you explain why that is, or why you wouldn't
14 consider cutting there?

15 A. Well, in our thought, or in my thought too, you
16 know, when we looked at the paperwork and the stuff that
17 we got, we were removing that because unit 9 and 10 is
18 being mothballed. To us that means we start cutting
19 things up, that thing's coming back online in two years,
20 three years, are they going to replace the cooling. We
21 don't know, so we're not going to effect the fact we
22 can't reconnect it correctly by cutting something else.
23 That thing may come back.

24 Q. Let's talk about that. Mothball. How did you
25 know that unit 9 and 10 was mothballed?

26 A. They told me in this.

27 Q. Okay. And to you mothballed --

28 THE COURT: Wait a minute. For the record, the

1 witness held up something. I don't know what it was.

2 THE WITNESS: It's Exhibit 72.

3 THE COURT: That's okay. People's number 72.

4 THE WITNESS: Says mothballed.

5 MR. HENNING: I would ask to move 72 into
6 evidence, if it wasn't received earlier.

7 MR. KRAVIS: I thought it was already in.

8 THE COURT: 72 was received.

9 MR. HENNING: That's the electric line
10 notification?

11 THE WITNESS: No, it's the e-mail from --

12 THE COURT: The e-mail is 73.

13 THE WITNESS: I didn't have my glasses on. I'm
14 sorry. This says 72. The little sticker here.

15 THE COURT: Okay. So then 72.

16 THE WITNESS: 72, the conversation right here.

17 THE COURT: Okay. I have that admitted as
18 well. I'm sorry.

19 BY MR. HENNING:

20 Q. You said -- what does mothballed mean to you?

21 A. When I think about mothballed I think about
22 Bernicia. There's a whole bunch of ships. There's
23 ships that they say, We may need these again. It's a
24 mothball fleet. And if we need them, they're there. If
25 they're not there, we got troubles maybe. That's why
26 they're there. Just in case.

27 Q. You're talking about the World War II
28 battleships?

1 A. Yeah, there's liberty ships out there. Big
2 battleships were there for some time.

3 Q. Okay. Now, you mentioned two to three years
4 though, and we're talking about mothball, you're talking
5 being battleships from over a half century ago.

6 Why in the context of a power plant do you
7 believe that mothballing means coming back in two to
8 three years?

9 A. I don't know. That's just a number I threw out.
10 A mothball, to me it means it's not gone away but it's
11 not being used.

12 Q. Okay. And let's talk about your experience in
13 the Geysers with other power plants. Do you recall how
14 many other times you've known of a mothball power plant
15 that came back online?

16 A. Only one off the top of my head, and that's
17 Bottle Rock power plant. Bottle Rock it's called.

18 Q. And approximately how long was it before Bottle
19 Rock came back online?

20 A. 15 years.

21 Q. At the time that you were doing this work back in
22 2006, did you have any idea how long 9 and 10 had been
23 mothballed?

24 A. No, no. You mean it was offline and how long it
25 had been offline?

26 Q. Correct.

27 A. No, I wasn't aware.

28 Q. Okay. And so did you have any -- other than the

1 experience of this -- well, actually let me back up.
2 This plant that came back, Bottle Rock, after 15 years,
3 approximately when did that happen? When did it come
4 back online?

5 A. Oh, it was right around that same time period.
6 2006, 2007 when it came back. Somewhere around there.

7 Q. And other than that, though, you weren't aware of
8 any other power plants that had come back online once
9 mothballed?

10 A. I'm not -- I don't recall any.

11 Q. And did you ever talk to anyone, either PG&E or
12 CalPine, about future use of 9 and 10?

13 A. No, not that I recall.

14 Q. Okay. And have you ever talked to -- have you
15 ever in your time at PG&E had an opportunity to talk to
16 CalPine employees?

17 A. I've talked to CalPine employees but, no, that
18 wasn't when I was still with PG&E. That was after I
19 left PG&E.

20 Q. Okay.

21 A. So I didn't have much interaction with CalPine.

22 Q. Okay. Was there anything at the time back in
23 2006 that prevented you from finding out from CalPine
24 what the future use of 9 and 10 was?

25 A. Not my responsibility.

26 Q. Okay.

27 A. That's a no.

28 Q. That's not really an answer to the question. Was

1 there anything that prevented you?

2 A. Prevented me?

3 Q. Were you able to?

4 A. I didn't have access. I never, to CalPine. The
5 only time I would have a contact is operations center.
6 I didn't make direct contact with CalPine ever.

7 Q. Okay. You did have an opportunity to go up there
8 a few days before the job site.

9 A. Yes.

10 Q. Was there anyone working at 9 and 10?

11 A. I do remember a couple of folks up there doing
12 some cleanup work of some sort. And -- because I
13 remember them saying something about the -- wearing the
14 Tyvek suits while we're in the yard part of it. Other
15 than that I don't recall.

16 Q. Why would you have to wear a Tyvek suit?

17 A. Well, again, there was a lot of contaminates that
18 were associated with the Geysers.

19 Q. Okay.

20 A. That was --

21 THE COURT: Would this be a good time to take
22 the afternoon recess?

23 MR. HENNING: Yes.

24 THE COURT: All right. Let's take a 15 minute
25 recess.

26 (Recess)

27 THE COURT: All right. Let's go back on the
28 record. All the parties are present and in their

1 places.

2 I asked the bailiff to have the witness step
3 outside because I wanted to take up the issue of the
4 proffer that was mentioned at the beginning of his
5 testimony. It was kind of mentioned briefly and then
6 not returned to.

7 Personally, I'd like to see a copy of the
8 proffer. I have no idea what the agreement between the
9 District Attorney's Office and the witness is. I assume
10 PG&E has been provided a copy of the proffer agreement?

11 MR. HENNING: I have not received a signed copy
12 back. Maybe Mr. Bornstein has it with him today.

13 MR. BORNSTEIN: So, your Honor, there was an
14 interview that took place before we -- before the
15 testimony -- with the district attorney, and he offered
16 a proffer agreement. It was a letter agreement for that
17 interview. And actually, I'm sorry, but we didn't
18 actually sign it, but we assumed that it was covering
19 that interview.

20 We talked about the testimony today. We didn't
21 feel that we needed any sort of immunity or anything
22 else with respect to his testimony. That he was called
23 as a witness, there was no concern or allegation that he
24 had done anything that would put him in harm's way, so
25 we didn't go forward with it. But his understanding was
26 that what he said, which was that when he spoke to the
27 district attorney that he was being called as a witness
28 and that he needed -- and that whatever he said would

1 not be used against him in any other proceeding in that
2 interview that he gave, except if he lied or didn't tell
3 the truth or otherwise, you know, said something that
4 was deliberately wrong.

5 THE COURT: So there is no cooperation
6 agreement at this point between the District Attorney's
7 Office and the witness.

8 MR. HENNING: No, I would not call it a
9 cooperation agreement. It was an agreement that he
10 would submit to an interview, as described by Mr.
11 Bornstein, and anything he said in that interview could
12 not be used against him. We made clear we were only
13 looking to talk to him as a witness.

14 THE COURT: Okay.

15 MR. HENNING: And I should tell the Court,
16 because we're hoping to get to the next witness, Mr.
17 Cincera, and this will apply equally to him. He's also
18 represented by Mr. Bornstein.

19 THE COURT: And he's in a similar situation, an
20 initial proffer letter that's now still unsigned, but no
21 cooperation agreement?

22 MR. BORNSTEIN: Correct.

23 MR. HENNING: And I just asked my paralegal to
24 print out -- I do have the copy we sent them with my
25 signature on it. I can submit that to the Court
26 shortly.

27 THE COURT: Has PG&E received a copy of that
28 letter?

1 MR. BORNSTEIN: I didn't send it to them.

2 MR. HENNING: I sent them a copy. We recorded
3 the interview with his consent, with Mr. Hemstock and
4 Mr. Cincera's consent. We sent those interviews over
5 and told them we would send the signed proffered letter
6 once we get them.

7 THE COURT: The reason I bring it up is because
8 in my experience in criminal practice, usually the
9 proffered agreement stems from an agreement whereby the
10 witness or potential witness has some kind of criminal
11 liability of their own, and in exchange for cooperation
12 with the District Attorney's Office won't necessarily
13 face that criminal liability. This does not sound like
14 that's what's happening.

15 MR. HENNING: This is not that situation.

16 MR. BORNSTEIN: Correct. And that's why we
17 didn't really pursue it. It was really more of actually
18 a courtesy, I think, from Mr. Henning. Just so our
19 folks could feel comfortable in terms of talking to him,
20 it was the right thing to do and not to worry about it.
21 But it was not necessary and it's not necessary with
22 respect to the testimony.

23 THE COURT: Do you have any objection to
24 turning a copy of the letter over to the defendant?

25 MR. HENNING: No. Well, we'll see how many
26 copies come. I have no problem with it. You know, I
27 would have hoped -- I expect to receive one in short
28 order, signed back.

1 MR. BORNSTEIN: I wasn't planning on signing it
2 and I didn't ask the witnesses to sign it.

3 THE COURT: Mr. Brian?

4 MR. BRIAN: I'm just going to say if there's no
5 proffer agreement for the testimony today, I think
6 there's a question frankly whether it's relevant at all.
7 We can take that up later.

8 THE COURT: Whether the testimony is relevant?

9 MR. BRIAN: No, the fact of a proffer agreement
10 as to the interview. Unless there's some allegation
11 that he's testifying differently from the interview, I
12 don't see the relevance of a proffer agreement for the
13 interview.

14 MR. BORNSTEIN: That was my take. So once we
15 were done, it all happened pretty quickly and we're
16 here, and we told him that we did not want or need a
17 formal order or anything else. We didn't ask for
18 anything with respect to this testimony. And so I'm
19 sorry if I dropped the ball and didn't send it to PG&E,
20 but I didn't feel I needed to.

21 THE COURT: I don't disagree with Mr. Brian or
22 anybody here. I just had a different understanding
23 because I heard the word proffer, and then no further
24 information was provided, and my thought is the Court is
25 to assess the credibility of the witness or advise the
26 witness, and I felt there was something important being
27 left out, and it sounds like there's not.

28 MR. BORNSTEIN: No.

1 MR. HENNING: I just sent the copy that has my
2 signature on it to Mr. Kravis and Mr. Brian.

3 THE COURT: Okay.

4 MR. BORNSTEIN: And that's the only signatures
5 that are on it.

6 MR. BRIAN: Your Honor, on a slightly related
7 note, the question was asked, and I'm sure it will be
8 asked of Mr. Cincera, whether or not PG&E is paying the
9 attorney's fees. I don't care if that's admitted in
10 front of your Honor. If we get to a jury trial we would
11 object to that. We are required by the labor code to do
12 that, and the suggestion that -- I hope there's no
13 suggestion that we're trying to influence the testimony.

14 THE COURT: I had expected as much, and if and
15 when we go to a jury trial we can litigate that issue in
16 limine.

17 MR. BRIAN: Fine.

18 THE COURT: All right. Thank you for the
19 clarification.

20 Mr. Henning, if you'd like to bring the witness
21 back in?

22 MR. HENNING: I don't know if Mr. Bornstein
23 wants to have a quick moment with him. He might be
24 questioning what just happened.

25 THE COURT: If you'd like to have 30 seconds
26 with him in the hall to explain what we did discuss that
27 would be fine.

28 (Short pause)

1 THE COURT: Mr. Hemstock, welcome back. Make
2 yourself comfortable, if you would. I will remind you,
3 you are still under oath.

4 THE WITNESS: Yes, sir.

5 THE COURT: Mr. Henning.

6 MR. HENNING: Thank you, your Honor.

7 BY MR. HENNING:

8 Q. Mr. Hemstock, I don't have too many more
9 questions. But focusing on -- I believe it's People's
10 94. You had mentioned earlier that at the time that you
11 were talking about doing the job there was no discussion
12 about cutting it right here, the wire, just adjacent to
13 the dead end shoe?

14 A. Yes, sir.

15 Q. Can you explain why that is?

16 A. Because if we was to cut there, or anywhere, on
17 that string or that jumper, restoring -- if and when,
18 because again we didn't know if that unit came back
19 online, trying to restore that jumper to operating to
20 that configuration would be -- wouldn't be possible.
21 There's no connection point that we could use.

22 Q. Okay. Why not?

23 A. Well, we don't -- in PG&E, we don't make
24 connection onto this main line that you see here. It's
25 not a good practice, because that creates a failure
26 point because you actually have to cut the wire and then
27 try to put it back together.

28 Q. Okay. And I'm going to try to ask you some

1 questions. Let me borrow this.

2 You're saying that you wouldn't make a connection
3 on the main wire over here. And I'm pointing to the
4 left of the dead end shoe on People's 94.

5 A. Yes.

6 Q. Okay. And a question I have, is the wire that's
7 depicted here that comes from the main line and goes
8 into the dead end shoe and comes out, is that one wire?

9 A. Yes.

10 Q. Okay.

11 A. Right till right there (indicating).

12 Q. You're pointing to -- do you call that a swage or
13 a sleeve?

14 A. It's a jumper sleeve.

15 Q. A jumper sleeve. Okay. And describe for us
16 what's inside the jumper sleeve.

17 A. Nothing. The wire. The two ends of the wire.
18 You grease them up, or it's called no lock side. It's
19 aluminum. You run it together and you use a 60-ton
20 press to press them together.

21 Q. Okay. And so this side of the jumper, I'm
22 looking to the right of the jumper sleeve, is a
23 different wire than the left side of the jumper sleeve?

24 A. No. It's all the same conductor. Same size.

25 Q. I mean, but they're not connected?

26 A. You're losing me. Yes, they are. That's one
27 piece of wire twice going down to that jumper. Just
28 because there's -- during construction what we would

1 typically do in those days is that string of insulators,
2 the wire going each way, hanging way down, we would just
3 lift it up and plug it in. Just hang the insulators.
4 Then once the wires are deadened, we take those tails
5 and swing them up -- okay, we want to cut it right here,
6 then we put them together. Press them. But essentially
7 it's now -- it goes through the shoe.

8 Q. I'm pointing. Through the shoe.

9 A. That is the shoe there.

10 Q. The wire comes down there.

11 A. Comes through that and keeps going.

12 Q. This is where I'm a little confused. Inside the
13 sleeve are there two wires connected and that's what the
14 sleeve is doing?

15 A. Yes. You're compressing that sleeve with a
16 60-ton press. Just almost like a solid piece.

17 Q. So these were -- at one point this part would
18 have been a different wire and then this part --

19 A. Yes.

20 Q. -- would have been different, and they were put
21 together, and that's what the sleeve is doing?

22 A. Yes, sir.

23 Q. And if you cut it right here in this space, so in
24 that space between the dead end shoe and the sleeve, can
25 you explain why it is that you couldn't reconnect at
26 that point?

27 A. Not enough room. Those sleeves and the jumpers
28 and to make the compression -- you got to remember,

1 aluminum, as you compress it, it gets longer. So if you
2 don't have that much wire sticking out of the shoe, you
3 can't make the connection.

4 Q. So how much wire approximately would you need
5 coming out of the shoe to make a future connection?

6 A. If I -- at least a couple feet.

7 Q. Okay. And this picture doesn't help, but there's
8 less than a couple feet between the shoe and the sleeve?

9 A. It looks to me there's maybe eight to ten inches.

10 Q. Okay. Now what about -- just hypothetically. I
11 guess my question is, if you were to add some additional
12 insulator plates here, and so make this entire insulator
13 connection string longer, wouldn't that push the shoe
14 further down the line?

15 A. Yes.

16 Q. Okay. And so by pushing the shoe down the line,
17 as the shoe moves down this way, you're going to have
18 more conductor coming out of this side of the shoe.

19 A. Well, see, here's the problem. When you start
20 messing around with that shoe right there, you got to
21 remember that conductor, that unit 13 is going through
22 that shoe, and then it's a hard turn down, as you can
23 see, and then it's got a bunch of bolted clamps that you
24 tighten up very tight. You take that off now, that wire
25 is all kinked. It's not usable.

26 Q. So you're saying --

27 A. So by me trying to slide that shoe down
28 accomplishes nothing unless I go way out, because now I

1 got a bunch of bent wire that's not usable.

2 Q. Okay. So the wire that's here under -- inside
3 the dead end shoe, you're saying that it's compromised
4 because it's so tight and clamped.

5 A. Right at that bend at that wide spot right in the
6 middle.

7 Q. This one right here. And I'm pointing at the
8 bend part of the shoe.

9 A. Yes. It's quite a chore, yes.

10 Q. Now, but you need a couple feet, so if you were
11 to move the conductor -- or excuse me. You were to add
12 enough length here so that the dead end shoe moves a
13 couple feet down here, past that compromised part of the
14 line, would you be able to use that as a connection
15 point?

16 A. Hypothetically?

17 Q. Yes.

18 A. Is that what you're asking? That seems pretty
19 much anything, yeah. But is it allowed? No.

20 Q. Why isn't it allowed?

21 A. Well, the engineer who designed this stuff isn't
22 going to let you say, I'm going to call him up and say,
23 I'm going to take three dog bones, which are the links
24 that we call dog bones, and I'm going to put three or
25 four links in there to get that shoe farther out. What
26 do you think of that? He'll say, You're out of your
27 mind.

28 Q. Why would you talk to an engineer in that

1 situation when you didn't talk to an engineer about the
2 work that was performed in 2006?

3 A. I don't need to talk to an engineer about the
4 work. We know how to do the work. I think what you're
5 referring to is I didn't talk to an engineer about the
6 wind, is what you said earlier.

7 Q. So you didn't talk to an engineer about the wind.
8 Did you talk to an engineer about the actual work that
9 was performed?

10 A. No, I didn't. To do that work, no. I had the
11 knowledge and training to do that work without an
12 engineer reference.

13 Q. Okay. Would you describe the work that you
14 performed? Or excuse me, that your crew performed as
15 routine?

16 A. Yeah. Yeah, pretty routine, yes.

17 Q. Okay. What we're looking at in People's 94, this
18 jumper configuration -- and I just mean specifically
19 what's depicted here. Have you similarly configured
20 another jumper loop like this?

21 A. Have I done? Yes.

22 Q. Okay. Where?

23 A. Probably right on that line somewhere, one of the
24 tower lines, the 230 lines that are up there that I
25 worked on when they were building in the early years.

26 Q. Okay. Approximately how many times have you
27 created jumper configurations like what we're looking at
28 in People's 94?

1 A. How am I going to have that number in my head?
2 How do I know how many times? I built a lot of
3 transmission lines and all of them have dead ends and
4 jumpers and stuff. I can't tell you the number of
5 exactly 230 KV. Let's call it 20. I've done 20.

6 Q. And I'm just asking you to estimate.

7 A. Yeah.

8 Q. And so approximately 20 times you've configured a
9 jumper loop where it comes out like this and it's only
10 supported by this vertically-hanging insulator as
11 depicted in People's 94?

12 A. True, yes.

13 Q. Okay. And of those approximate 20 times, did any
14 of those times, did the jumper down here, did it
15 continue into another connection point?

16 A. Yes.

17 Q. Oh, okay. So this is where I'm struggling to
18 understand you.

19 I'm looking at a configuration where the jumpers
20 end just past the vertically-hanging insulator, and
21 there's no other connection point on the other end.
22 Have you ever done that work?

23 A. You mean because there's no conductor going the
24 other way on the same side of the tower.

25 Q. That's what I mean, yes.

26 A. I can't recall it, but it's not unusual, no. I
27 just don't recall which tower I did.

28 Q. Okay.

1 A. It could have been this one.

2 Q. So this could have been the only time that this
3 specific configuration was a product of your work?

4 MR. KRAVIS: Objection. Leading.

5 THE COURT: Overruled. I'll hear the answer.
6 I think he's just trying to clarify.

7 THE WITNESS: Repeat the question, please,
8 then? I don't know what you're looking for.

9 BY MR. HENNING:

10 Q. What I'm looking for --

11 A. Is have I done this before?

12 Q. And by this, I don't mean -- what I mean is
13 specifically jumpers being supported by
14 vertically-hanging insulator and then just terminate,
15 without any connection point on the other end.

16 A. I don't recall. I don't recall.

17 Q. Okay.

18 A. I'll just leave it at that.

19 Q. Is it possible this is the only one?

20 A. The only one of this configuration?

21 Q. Yes.

22 A. No, I don't think so.

23 Q. You don't think so. Can you identify one other
24 single location?

25 MR. KRAVIS: Objection. Asked and answered.

26 THE COURT: Overruled. Go ahead.

27 BY MR. HENNING:

28 Q. Can you identify for us one other single location

1 that has this same jumper configuration?

2 A. Without taking a trip up to the Geysers and
3 looking at all the 230 configurations where they're
4 coming out of the power plants, no.

5 Q. Okay. Well, what if hypothetically you were told
6 that there was no other configuration like this on
7 PG&E's entire network?

8 MR. KRAVIS: Objection. Lack of foundation,
9 calls for speculation.

10 THE COURT: Sustained.

11 MR. HENNING: Okay.

12 BY MR. HENNING:

13 Q. After the Kincade Fire, did you meet with anyone
14 from PG&E about the work that your crew performed in
15 2006?

16 A. No.

17 Q. No. Okay.

18 Other than meeting with your attorney and then
19 meeting with me and my team last week, did you have any
20 other meetings or discussions about this work that you
21 performed back in 2006?

22 A. No.

23 MR. HENNING: May I just have a moment?

24 THE COURT: You may.

25 MR. BORNSTEIN: Can I have a moment to clarify
26 something with the witness?

27 THE COURT: Any objection to his attorney
28 speaking to him?

1 MR. HENNING: Yes.

2 THE COURT: So, no. Not at this moment.

3 MR. HENNING: Your Honor, I don't have any
4 further questions for Mr. Hemstock.

5 THE COURT: Okay. Mr. Kravis.

6 CROSS-EXAMINATION

7 BY MR. KRAVIS:

8 Q. Good afternoon, Mr. Hemstock.

9 A. Good afternoon.

10 Q. Just sort of picking up where we left off. You
11 and I met to discuss this matter once, is that right?

12 A. I think on the Zoom.

13 Q. Right.

14 A. Yes.

15 Q. We did that one time?

16 A. On the Zoom, yes.

17 Q. Now Mr. Hemstock, I would like to start by asking
18 you about that e-mail you have in front of you. I
19 believe it's People's Exhibit 72. If you have it.

20 May I approach the witness?

21 THE COURT: You may.

22 BY MR. KRAVIS:

23 Q. Mr. Hemstock, I am handing you what has been
24 marked and entered into evidence as People's Exhibit 72.
25 I'm also going to put a copy of People's 72 up on the
26 screen just so we can see it here.

27 Now, Mr. Hemstock, am I right that the middle
28 e-mail in People's Exhibit 72 is an e-mail from Mr.

1 Gutierrez to you on March 28 of 2006?

2 A. That's right.

3 Q. And am I right that in that e-mail Mr. Gutierrez
4 asks you would it be possible to drop the leads off the
5 first tower coming out of Geysers 9 and 10 mothballed.
6 Did I read that right?

7 A. That's correct.

8 Q. Now, did you have an understanding about what Mr.
9 Gutierrez was asking you to do, when he said drop the
10 leads off the first tower?

11 A. Yes, I understood it.

12 Q. What was your understanding of the work that Mr.
13 Gutierrez was asking you to perform?

14 A. Remove the leads from the power plant to our
15 tower and get rid of them.

16 Q. And the tower is the tower that we were looking
17 at in the photos on direct examination, right?

18 A. Correct. 0 over 1.

19 Q. Now Mr. Gutierrez in that e-mail uses the word
20 mothballed. Did you see that?

21 A. Yes, sir.

22 Q. Did you have an understanding of what the word
23 mothballed means here?

24 A. My understanding, yes.

25 Q. Yes. What is your understanding?

26 A. That it's a term that something is not being used
27 now but may be used in the future.

28 Q. I think you gave an example like ships in the

1 Navy?

2 A. Exactly. Like we all know about Bernicia.

3 Q. Now if we move up to the top e-mail, do you see
4 the e-mail from you to Mr. Gutierrez on April 4, 2006 at
5 7:43 a.m. up there at the top? Do you see that?

6 A. Yes, sir.

7 Q. And do you see there in the second paragraph you
8 say, "We would like to schedule insulator replacement on
9 tower 0-1, same tower with the leads off to unit 9 and
10 10 during Ben's April 10th to 17th clearance, Geysers 12
11 Fulton."

12 Do you see that?

13 A. Yes.

14 Q. And the next sentence reads, "These insulators
15 are contaminated and covered with dirty silicone."

16 Did I read that right?

17 A. That's correct.

18 Q. So am I right that in this e-mail you say that at
19 the same time you're doing the disconnection work,
20 you're also going to replace the insulators, is that
21 right?

22 A. That's correct.

23 Q. And why was it that you were going to replace the
24 insulators?

25 A. Because they were highly contaminated.

26 Q. And what is so bad about the insulators being
27 contaminated? Like what can happen?

28 A. It can flash over and cause an outage to that

1 line from station to station.

2 Q. And what is flash over?

3 A. It's where the insulators fail and keep from
4 insulating the conductor from the tower. So if those
5 insulators fail and a certain amount of them, because
6 each insulator has a certain value, and the current can
7 flow right over the top of them right to the steel and
8 it locks that circuit out.

9 Q. So flash over is when the current from the line
10 conducts over the contamination. Is that fair to say?

11 A. Right over the insulators, yes.

12 Q. And is it fair to say that flash over would only
13 be a concern on an energized line?

14 A. That's correct.

15 Q. Now you also say here the insulators are covered
16 with dirty silicone. When you replaced the insulators
17 on the tower, did you also coat them in silicone?

18 A. The new ones, yes, sir.

19 Q. Why did you do that?

20 A. Again, we weren't -- if a unit comes back online,
21 we wanted the protection there already. So we would do
22 the same thing. The insulators that went down were
23 dirty. The new ones came up, covered with silicone, put
24 in service.

25 Q. So the silicone is being put on the new
26 insulators to protect them in case the plant comes back
27 online?

28 A. To add -- yeah, an added protection layer,

1 opposed to just the ceramic insulators, yes.

2 Q. And that added layer of protection would be
3 necessary if the plant were to come back online, is that
4 right?

5 A. Yes.

6 Q. At the time of the work that we have been talking
7 about in 2006, did you know what Calpine's plans were
8 for the future of this plant, Geysers 9 and 10?

9 A. No, I have no idea.

10 Q. Did anyone at Calpine during this time ever tell
11 you that Geysers 9 and 10 was going to be permanently
12 abandoned?

13 A. No, I did not know that.

14 Q. Did anyone at PG&E ever tell you that they heard
15 from someone at Calpine that Geysers 9 and 10 was going
16 to be permanently abandoned?

17 A. No, that never came up.

18 Q. I think you testified on direct examination that
19 you could recall at least one occasion where a plant
20 that had been offline came back online after a number of
21 years. Is that right?

22 A. That's correct.

23 Q. Is that the Bottle Rock plant?

24 A. Yes.

25 Q. What happened with the Bottle Rock plant?

26 A. I really don't know when it shut off. I know why
27 they closed it, but -- and I don't recall the exact
28 year, but it was right in the same timeframe. We got a

1 notification from operations that Bottle Rock was going
2 back online and that we needed to do whatever
3 maintenance reconnaissance so that could come back
4 online and all the infrastructure that we owned was
5 ready for it.

6 Q. I want to ask you just a few questions now about
7 the work from 2006. I'm putting up on the screen
8 People's Exhibit 94. Do you see that?

9 A. Yes.

10 Q. Now, I think you testified on direct examination
11 that in 2006 your crew disconnected this portion of the
12 tower from the power plant Geysers 9 and 10. Do I have
13 that right?

14 A. That is true.

15 Q. And I think you said that you considered this job
16 to be routine. Is that fair to say?

17 A. Yes, it is.

18 Q. Now, I think I heard you say on direct
19 examination that at the time that your crew performed
20 this disconnection work in 2006, the crew did not
21 consider cutting this jumper off at the clamp right here
22 on the lower left-hand side of the photo. Did I hear
23 that correctly?

24 A. Well, the crew wouldn't have that decision. The
25 crew itself. Maybe Steve and I would talk about it, but
26 the crew itself take direction. My direction is you
27 don't cut it.

28 Q. And why was it that you don't cut?

1 A. Simply because if that unit comes back online
2 then we don't have the equipment, a good way to set it
3 back up to make sure we reconnect them in a timely
4 manner.

5 Q. If that had happened, if you cut the jumper on
6 the place I showed on the photo and then the plant comes
7 back online and required a reconnection, what would you
8 have had to do?

9 A. We would have had to take that wire, the main
10 line, go out there with 150 feet, because there are
11 standards at PG&E that says you don't put a splice
12 within 125 feet, I think it is. We have to go out
13 there, drop the wire to the ground, splice it and bring
14 it back up through a shoe and start making the jumpers
15 again.

16 Q. Would that kind of work create any safety
17 concerns?

18 A. For us it would, yes.

19 Q. Why is that?

20 A. Because there's several reasons on the grounding,
21 is I have an adjacent circuit that is energized. So
22 it's deucing a voltage on the de-energized, because we
23 have to do a de-energize on the Geysers 9 side. So
24 there is a voltage there. We can ground against it.

25 I also had an issue with the work because we have
26 a substation facility, even though it may be idle or not
27 being used, but if we're sitting in there we have a
28 different ground potential, because it's a substation.

1 So you never drag things or move things back and forth
2 across that fence. Ever. It's just too dangerous.
3 Because there could be a fault, and that would transfer
4 out to the guys working on the line.

5 So our job would have been to make sure that we
6 do the grounding and all the preparation so when we drop
7 the wire and splice it that we never introduce a second
8 source of ground potential.

9 Q. I want to ask you just a few questions now about
10 some of the parts on the tower.

11 Sticking with People's Exhibit 94. Do you see
12 this vertical line of discs or cones in the middle right
13 side of the photo that I'm pointing to with my pen?

14 A. Yes. The insulator string, yes.

15 Q. That's called the insulator string, right?

16 A. Yes.

17 Q. It's made out of porcelain, is that right?

18 A. Those are porcelain and steel, yes.

19 Q. What is the function of that vertical insulator
20 string?

21 A. To support the jumper.

22 Q. And by the jumper, you mean the brown wire in the
23 middle that I'm pointing to with my pen here?

24 A. That's correct. Or both of them, because there's
25 parallel. There's two wires per phase.

26 Q. Two wires?

27 A. Two jumper wires per phase.

28 Q. Perfect. Was that vertical insulator string on

1 the tower before your crew performed the disconnection
2 work in 2006?

3 A. Oh yes.

4 Q. And was the vertical insulator string on the
5 tower after your crew performed the disconnection work
6 in 2006?

7 A. That's correct.

8 Q. And after the disconnection work, was it still
9 performing the same function, supporting the jumper?

10 A. That's correct.

11 Q. Now these jumper cables here, before the
12 disconnection work, those jumper cables were not in
13 heavy tension, were they?

14 A. No.

15 Q. They're not supposed to be in heavy tension, are
16 they?

17 A. No, they're not.

18 Q. And those jumper cables, they're actually
19 supposed to move in the wind a little bit, right?

20 A. Yes.

21 Q. I think I heard you say on direct examination
22 that whether the connection to the Calpine plant was
23 there or not would have no bearing on the support for
24 the jumper cables. Did I hear that right?

25 A. On the jumper string?

26 Q. On the jumper cables, yes.

27 A. I think so. I'm not understanding your question.
28 Try it again.

1 Q. Let me ask it this way.

2 Before the 2006 disconnection work, would -- am I
3 right that this portion that I'm pointing to with my pen
4 on the bottom right of the photo, the end of the jumper
5 cable, am I right that that would have been connected to
6 the line that ran from the tower to the Calpine plant?

7 A. That's correct. Yes.

8 Q. And am I right that the disconnection work in
9 2006 involved removing that line that ran from the tower
10 to the Calpine plant?

11 A. That's correct.

12 Q. My question is, did the removal of that line that
13 ran from the tower to the Calpine plant have very much
14 impact in terms of the support that the jumper cables
15 had on the tower?

16 A. No, not much at all. If any.

17 Q. Based on the information available to you at the
18 time, do you believe that it was the correct decision to
19 configure this portion of the tower in this way rather
20 than cutting off the jumpers?

21 A. That was my decision, yes.

22 Q. Did anybody from Calpine ever raise any concerns
23 with you about the configuration work in 2006?

24 A. No, not at all.

25 MR. KRAVIS: Thank you, Mr. Hemstock. I have
26 no further questions.

27 THE COURT: Thank you. May the witness be
28 excused or do you have further questions?

1 MR. HENNING: Briefly.

2 THE COURT: Go ahead.

3 REDIRECT EXAMINATION

4 BY MR. HENNING:

5 Q. So I just want to understand you. I'm looking
6 at -- we have People's 91. Is it your testimony that
7 the removal of this blue line that was connected to the
8 jumpers, that did nothing to impact the support?

9 MR. KRAVIS: Objection. Misstates the
10 testimony.

11 THE COURT: Overruled. I'll hear his answer.

12 THE WITNESS: Ask me that one more time,
13 please.

14 BY MR. HENNING:

15 Q. So I believe I just heard you say that the
16 removal of this blue line, where it was connected, that
17 that didn't impact the support of that jumper system.

18 A. Didn't impact the support. No, it doesn't impact
19 the support.

20 Q. Okay. Does it impact the ability for it to move
21 in the wind?

22 A. No, it still has the same ability to move.

23 Q. So --

24 A. I mean, it's always going to be able to move.
25 Where the line is there, the jumper is there going to
26 the sub -- or to the generator or not, that still does
27 move.

28 Q. So you're saying that removing the line right

1 here, where it's connected, that doesn't impact how much
2 it can move in the wind?

3 A. If it does it's not very much. It's very slight.

4 Q. It's very slight. And you're saying that even
5 though you didn't do any wind calculations.

6 A. I didn't have to.

7 Q. Okay. The work that you were just describing
8 where you have to be, I think you said, 150 feet or 120
9 feet?

10 A. We would go -- I think the standard requirement
11 is 125, but we would go out extra room so there's no
12 splice within 125 feet of the tower.

13 Q. And that's known as splicing a line?

14 A. Yeah, if you cut it and add some wiring, yes.

15 Q. Have you done that work before?

16 A. Oh, yeah.

17 Q. How many times?

18 A. Hundreds across my career.

19 Q. And the dangers that you describe, that's what's
20 known as induction?

21 A. If you have adjacent and parallel circuit, yes.

22 Q. So you're referring to the fact that the other
23 side of this tower, the Fulton side, is an energized
24 circuit?

25 A. Correct.

26 Q. And would that danger of induction exist if
27 you're doing the splicing work and the Fulton side is
28 de-energized temporarily?

1 A. Are you asking what if Fulton was de-energized,
2 then we could do the work?

3 Q. Correct.

4 A. We would still be dropping the wire to the ground
5 and doing all the same thing.

6 Q. But what about the induction dangers?

7 A. If you could actually dump the 230 lines right
8 there, which ain't going to happen, but it drops down,
9 as far as the hazard of induction. It doesn't relieve
10 you of the fact that you have to ground a certain way.
11 And PG&E, you ground -- they're very specific on how you
12 ground.

13 MR. HENNING: Okay. I have no further
14 questions. Thank you.

15 THE COURT: Any recross?

16 MR. KRAVIS: No, thank you, your Honor.

17 MR. BORNSTEIN: Your Honor, I'm sorry, but I
18 have to ask the district attorney a question before you
19 excuse the witness, please. I'm sorry.

20 THE COURT: Go ahead.

21 MR. HENNING: May I just ask a couple
22 questions?

23 THE COURT: Go ahead.

24 REDIRECT EXAMINATION

25 BY MR. HENNING:

26 Q. So when I was asking you questions earlier you
27 said that you didn't have any meetings with anyone other
28 than your attorneys and myself last week, but then you

1 were reminded that you had a Zoom meeting or a phone
2 call with Mr. Kravis.

3 Other than that, did you have any other
4 conversations, phone calls, zoom calls, other meetings
5 with PG&E regarding Kincade?

6 A. I don't recall ever talking to anybody about the
7 Kincade Fire.

8 Q. Okay.

9 A. I have no knowledge of what happened as far as,
10 you know, fault or failure. I have -- nobody ever told
11 me about it.

12 Q. Okay. Let's not talk about -- after October
13 23rd, 2019, did you have any other conversations or
14 interviews with PG&E about the work that you performed
15 while at PG&E?

16 A. Not to my recollection. I don't think I've
17 talked to anybody about it until I talked to you folks.

18 Q. And "you folks" includes Mr. Kravis?

19 A. The PG&E, my own attorney.

20 MR. HENNING: Okay. Thank you.

21 MR. KRAVIS: I'm sorry. Can I do one more?

22 THE COURT: Mr. Kravis, of course.

23 MR. KRAVIS: Thank you.

24 RE-CROSS-EXAMINATION

25 BY MR. KRAVIS:

26 Q. Mr. Hemstock, just to clarify, it wasn't me at
27 that time, but do you recall in March of 2021 having a
28 conversation with some lawyers for PG&E about the

1 Kincade matter?

2 A. Wow. You know, I vaguely remember somebody
3 talking to me. I don't remember if it was a phone call.
4 I don't remember exactly how it happened. I do vaguely,
5 but I couldn't tell you who it was.

6 MR. KRAVIS: Fair enough. Thank you, Mr.
7 Hemstock. That's all I have.

8 FURTHER DIRECT EXAMINATION

9 BY MR. HENNING:

10 Q. So now you're remembering this.

11 A. I vaguely remember somebody talking to me after
12 the Kincade Fire. Or I don't know if it was after. It
13 might have been still going on. I don't know.

14 Q. So we're not talking about March 2021. We're now
15 going back to 2019 when the fire was burning?

16 A. No, I don't have any recollection. I couldn't
17 tell you who it was, if somebody said on this date you
18 talked to so and so about this. Maybe it would kick my
19 recollection, but I have no recollection whatsoever
20 talking to somebody.

21 MR. HENNING: Okay. I have no further
22 questions.

23 MR. KRAVIS: Thank you, your Honor.

24 THE COURT: All right. Thank you, sir, very
25 much for being here. You can step down. Don't forget
26 your water.

27 We still have 15 minutes in the day, if you'd
28 like to get started on your next witness. If you have

1 another witness for the day. I don't know if you do.

2 MR. BROCKLEY: I would expect my direct to last
3 over more than an hour, so...

4 THE COURT: You'd like to come back tomorrow --
5 or sorry. The 22nd?

6 MR. BROCKLEY: Yes.

7 THE COURT: Any objection to that?

8 MR. BRIAN: No, your Honor.

9 THE COURT: All right. Then we'll break for
10 the day.

11 MR. BROCKLEY: I would like that witness
12 ordered back. Steve Cincera, please.

13 THE COURT: Is Mr. Cincera outside?

14 MR. BORNSTEIN: Yes.

15 THE COURT: Could you have him step in for just
16 a moment?

17 Has he been properly subpoenaed, Mr. Brockley?

18 MR. BROCKLEY: He has. Yes, your Honor. Thank
19 you.

20 THE COURT: Right there is fine. Are you Mr.
21 Cincera?

22 MR. CINCERA: I am.

23 THE COURT: Mr. Cincera, we're going to go into
24 recess now for the rest of the day. We're going to
25 resume on Tuesday, February the 22nd. Let me double
26 check the time here for you. At 9:30. I understand
27 you've been subpoenaed for this case, so I'm ordering
28 you back on Tuesday, February 22nd at 9:30 in this

1 courtroom, okay?

2 THE WITNESS: Okay.

3 THE COURT: We'll see you then, sir. Thank
4 you.

5 Anything else to put on the record before we
6 recess for the day?

7 MR. HENNING: I don't believe so.

8 THE COURT: Okay. We're in recess. See
9 everybody on the 22nd. Thank you.

10 (Whereupon, proceedings concluded)

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1 STATE OF CALIFORNIA)
2 COUNTY OF SONOMA) ss:
3

4 **CERTIFICATE OF SHORTHAND REPORTER**

5
6 I, BECKI PETERSON, CSR No. 8973, a duly
7 appointed, qualified and acting shorthand reporter for
8 the County of Sonoma, do hereby certify:

9 That on February 9, 2022, I reported in
10 shorthand writing the proceedings had in the case of THE
11 PEOPLE OF THE STATE OF CALIFORNIA versus PACIFIC GAS AND
12 ELECTRIC, aka PG&E.

13 That I thereafter caused my said shorthand
14 writing to be transcribed into longhand typewriting.

15 That the foregoing pages 157 through, 156,
16 constitute and are a full, true, correct and accurate
17 transcription of my said shorthand writing and a correct
18 and verbatim record of the proceedings so had and taken,
19 as aforesaid.

20 Dated this 9th day of February, 2022.
21
22
23

24 -----
25 BECKI PETERSON, CSR 8973
26
27
28