



ALJ/UNC/CR2/gp2 2/11/2019

FILED
02/11/19
08:43 AM

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Examine Electric Utility De-Energization of Power Lines in Dangerous Conditions.	Rulemaking 18-12-005
NOT CONSOLIDATED	
Order Instituting Rulemaking Regarding Emergency Disaster Relief Program.	Rulemaking 18-03-011

JOINT ADMINISTRATIVE LAW JUDGES' RULING ENTERING PORTIONS OF THE RECORD FROM RULEMAKING 18-03-011 TO RULEMAKING 18-12-005

The State of California is experiencing the devastating effects of major wildfires that have occurred throughout the state. The Commission has instituted multiple rulemakings - including Rulemaking (R.)18-03-011, *Order Instituting Rulemaking (OIR or R.) Regarding Emergency Disaster Relief*, and R.18-12-005, *Order Instituting Rulemaking to Examine Electric Utility De-Energization of Power Lines in Dangerous Conditions* - to promulgate a comprehensive, state-wide approach to coordinate state programs and activities that preserve California's essential functions across a wide range of potential threats and emergencies. Continuity of essential functions is a shared responsibility of the Commission and its counterparts across the State government. Development and maintenance of continuity capabilities helps build and sustain a more resilient approach equipped to sustain essential

functions, deliver critical services, and supply core capabilities under all conditions.

To support the development of both records and promote continuity of essential functions, we enter portions of the record from R.18-03-011 to R.18-12-005 concerning communications service providers. Entering such portions of the record is appropriate where activity before the Commission involves common questions of law, fact, and/or interests pertinent to the public. Entering portions of the record from R.18-03-011 to R.18-12-005 will support the Commission's efforts to build and sustain a more resilient approach in providing disaster preparedness and relief to California in times of crises. At this time, R.18-03-011 and R.18-12-005 remain unconsolidated.

Therefore, all comments provided by communications service providers in R.18-03-011 and the workshop transcript from the November 1, 2018 Governor's Office of Emergency Services and the California Public Utilities Commission for Communications Service Providers All-Party Workshop in R.18-03-011 is hereby entered into the record of R.18-12-005 (Attachment A). Parties may file comments on the inclusion of the above from the record of R.18-03-011 into R.18-12-005 within five days of mailing of this ruling. Reply comments will not be accepted.

In the future, if there are portions of either record that become relevant to the record in the other proceeding, we will issue another ruling entering those portions into the record and allowing party comment.

IT IS RULED that:

1. The workshop transcript workshop from the November 1, 2018 Governor's Office of Emergency Services and the California Public Utilities Commission Communications Service Providers All-Party Workshop held in

Rulemaking (R.) 18-03-011 is entered into the record of R.18-12-005
(Attachment A).

2. All communications service providers comments filed in R.18-03-011 shall be entered into the record of R.18-12-005.
3. Parties may file comments 5 days from the mailing date of this ruling.

Dated February 11, 2019, at San Francisco, California.

/s/ MELISSA SEMCER
Melissa Semcer
Administrative Law Judge

/s/ COLIN RIZZO
Colin Rizzo
Administrative Law Judge

ATTACHMENT A

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

ADMINISTRATIVE LAW JUDGE COLIN RIZZO and COMMISSIONER
PICKER, presiding

)	
)	WORKSHOP
)	
)	
Order Instituting Rulemaking)	
Regarding Emergency Disaster Relief)	Rulemaking
Program to Support California)	18-03-011
Residents.)	
)	
)	

REPORTER'S TRANSCRIPT
Mather, California
November 1, 2018
Pages 1 - 193
WS

Reported by: Karly Powers, CSR No. 13991
Shannon Ross, CSR No. 8916

PUBLIC UTILITIES COMMISSION, STATE OF CALIFORNIA
SAN FRANCISCO, CALIFORNIA

I N D E X

STATEMENTS

1		
2		
3	<u>STATEMENTS</u>	
4	<u>MS. ECKERSLEY</u>	5
5	<u>MR. PICKER</u>	8
6	<u>MR. GHILARDUCCI</u>	11
7	<u>MR. MEDIGOVICH</u>	26
8	<u>MR. MALLON</u>	30
9	<u>MS. THOMAS-JACOBS</u>	34
10	<u>COMMISSIONER PICKER</u>	41
11	<u>MR. GHILARDUCCI</u>	42
12	<u>MS. SALAS</u>	43
13	<u>MR. ROMAN</u>	47
14	<u>MR. CIGLER</u>	48
15	<u>MR. PICKER</u>	52
16	<u>MR. PICKER</u>	54
17	<u>MR. ROMAN</u>	55
18	<u>MS. MICKIEWICZ</u>	56
19	<u>MR. ROMAN</u>	57
20	<u>MR. LEE</u>	57
21	<u>MR. CURRIER</u>	58
22	<u>MR. LEE</u>	62
23	<u>MR. KENDALL</u>	64
24	<u>MR. MARTIN</u>	73
25	<u>MR. BATONGBACAL</u>	74
26	<u>MR. MALLON</u>	75
27	<u>MR. SMITH</u>	78
28	<u>MR. NOJAN</u>	85
29	<u>MS. KASNITZ</u>	86
30	<u>MR. LENZI</u>	87
31	<u>MR. HUANG</u>	91
32	<u>MR. NOJAN</u>	91
33	<u>MS. KASNITZ</u>	91
34	<u>MS. SALAS</u>	92
35	<u>MR. NOJAN</u>	93
36	<u>MR. NOJAN</u>	94
37	<u>MR. CURRIER</u>	94
38	<u>MS. THOMAS-JACOBS</u>	98
39	<u>MR. CURRIER</u>	101
40	<u>MR. BOWDEN</u>	103
41	<u>MR. NOJAN</u>	108
42	<u>MR. DISCHER</u>	109
43	<u>MS. KASNITZ</u>	110
44	<u>ALJ RIZZO</u>	115
45	<u>MS. THOMAS-JACOBS</u>	131
46	<u>MR. ZAGARIS</u>	132
47	<u>MR. CURRIER</u>	134
48	<u>MR. ZAGARIS</u>	136
49	<u>MR. SINGH</u>	137
50	<u>MR. BOLAND</u>	138
51	<u>MR. BATONGBACAL</u>	140
52	<u>MS. KASNITZ</u>	141
53	<u>MS. HOOK</u>	143
54	<u>MS. STEINER</u>	144

1	MR. DiNUNZIO	147
	MS. JACOBSON	148
2	MS. SALAS	149
	MS. COOK	151
3	MS. STEINER	152
	MR. BROWN	175
4	MS. STEINER	181
	MR. DISCHER	182
5	MR. SINGH	182
	MS. JACOBSON	183
6	MR. HUANG	183
	MR. DiNUNZIO	184
7	MS. SALAS	185
	MS. ECKERSLEY	185
8	<u>MR. CURRIER</u>	<u>186</u>
	<u>MR. BATONGBACAL</u>	<u>187</u>
9	<u>MR. SINGH</u>	<u>187</u>
	<u>MR. MEDIGOVICH</u>	<u>188</u>
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

1 MATHER, CALIFORNIA

2 NOVEMBER 8, 2018 - 10:00 A.M.

3 * * * * *

4 ADMINISTRATIVE LAW JUDGE RIZZO: On the
5 record. This is the time and place for the
6 California Public Utilities Commission and
7 Governor's Office of Emergency Services Joint
8 Emergency Disaster Relief Workshop for
9 Communications Service Providers in
10 Rulemaking 18-03-011, the Order Instituting
11 Rulemaking regarding Emergency Disaster
12 Relief Program to Support California
13 Residents.

14 I'm Colin Rizzo, the assigned
15 California Public Utilities Commissioner
16 Administrative Law Judge to this proceeding.
17 With me is President Michael Picker of the
18 California Public Utilities Commission, the
19 assigned Commissioner to this proceeding.

20 We have two court reporters in the
21 back, Ms. Shannon Ross and Ms. Karly Powers,
22 who are going to be preparing a transcript of
23 today's workshop. To assist them in
24 preparing a clean transcript, I ask that you
25 speak one at a time and don't interrupt each
26 other and if you are reading a prepared
27 statement, please provide a copy to the court
28 reporter. Additionally, if you would like a

1 transcript from today's workshop, there's
2 transcript request forms in the back that
3 they can provide you with.

4 Now, we turn to Ms. Karen Eckersley
5 of the California Public Utilities
6 Communications Division.

7 STATEMENT OF MS. ECKERSLEY

8 MS. ECKERSLEY: Good morning. Thank
9 you all for coming to today's workshop, which
10 has been designed to address key issues for
11 communications providers during and after a
12 declared disaster. I'm Karen Eckersley of
13 the CPUC Communications Division.

14 It is not a coincidence that we are
15 here in the headquarters of the office of
16 Emergency Services because our partnership
17 and open communication with OES on issues,
18 which affect us all, is critical to
19 developing a response to disasters,
20 particularly wildfires. We thank them for
21 hosting us here today at this workshop and
22 for participating with their insights and
23 concerns.

24 At the end of last year, when
25 California experienced the largest wildfires
26 at that time, the fires in Napa and Sonoma
27 and also Santa Barbara and other fires in
28 Southern California, the California Public

1 Utilities Commission passed two resolutions,
2 which required electric, gas, telephone,
3 water and sewer companies to take measures on
4 behalf of their customers.

5 In March of this year, the
6 Commission initiated a rulemaking to consider
7 whether the Commission should adopt permanent
8 rules in this area. In August, the CPUC
9 issued an interim decision affirming the
10 previous provisions and adopting further
11 protections to ensure that everyone has
12 access to communications when they need it
13 most.

14 We are here today to build a record
15 for that final decision. The CPUC is aware
16 that not all disasters are alike, and many of
17 you have asked that our safety measures
18 should allow for differences. While we are
19 concerned with providing protections for
20 consumers who are affected by disasters, we
21 are also aware that communication providers
22 have their own efforts and disaster
23 responses, which we expect would exceed our
24 rules.

25 Many of the communications providers
26 here have commented in this proceeding that
27 their voluntary efforts are sufficient, and
28 that we should not establish rules, or

1 one-size-fits-all rules, and that the CPUC
2 should not require communications providers
3 to provide customer assistance.

4 I will state the obvious: We would
5 not be here today if we didn't think there
6 were issues to resolve with our disaster
7 response. We need to understand these issues
8 clearly so that both of these agencies can
9 serve Californians better, and I hope that
10 all of you have proposals and helpful
11 information to address the questions that we
12 have put forward.

13 Our agenda includes the questions
14 that we would like to address and for those
15 respondents and representatives of
16 communications carriers who would plan to
17 speak, I would ask that you please not repeat
18 what you have already provided in writing in
19 this proceeding. We have that information.

20 Our facilitators, myself, Mr. Nojan,
21 Mr. Lee, Ms. Steiner, we'll guide you through
22 the questions that we would like to hear more
23 about, and, of course, the questions from the
24 dais. Our two opening speakers today will
25 speak to what they see and why we are here.

26

27 First on the agenda is the President
28 of the California Public Utilities

1 Commission, Michael Picker. Following
2 President Picker, Mitch Medegovich will
3 introduce Mr. Ghilarducci, the head of the
4 California Office of Emergency Services.

5 President Picker.

6 STATEMENT OF MR. PICKER

7 PRESIDENT PICKER: Thank you.

8 I'm going to speak fairly broadly.
9 Changes in the world are straining the CPUC's
10 traditional independent identity in state
11 government. At one point we were designed to
12 be remote from the day-to-day pressures that
13 faced other agencies and political pressures
14 that the legislature and elected officials
15 faced, but at this point in history that just
16 doesn't work.

17 As we continue to try to help the
18 CPUC remain effective and relevant to
19 people's lives here in the State of
20 California, safety has become an urgent and
21 pressing problem; so some of that is
22 strengthening and revitalizing our internal
23 programs, but a large part of that is
24 recognizing that the CPUC cannot be
25 effective, relevant, and improve safety
26 practices all alone.

27 So it's significant that one of the
28 first MOUs that we've crafted with other

1 state agencies is to be able to draw on their
2 wisdom, on their operational strengths, and
3 on their statutory authorities to be able to
4 do those things we need to do in today's
5 modern world with that agreement with the
6 Office of Emergency Services.

7 My history at the CPUC is limited;
8 it's only about five years old, but every
9 year that I've been here, there's been a new
10 disaster of some type or another. Some of
11 that is relative to aging infrastructure;
12 some of that is related to changes in the
13 world that affects our infrastructure. So
14 whether it's a failure to replace and
15 maintain gas transmission, or it's a vast
16 amount of fuels, dryer winds, and ferocious
17 winds, and low humidity that has
18 characterized these recent weather events,
19 we're in a different place; so we need to be
20 a different agency. We need to work better
21 with our partners.

22 Here we're talking about another set
23 of challenges. It's how do our utilities and
24 their vast differentiation also participate
25 in providing services during emergencies. So
26 while the specific focus of this discussion
27 today is on what we provide in terms of
28 consumer support in an emergency, the point

1 at which consumers need that support is kind
2 of hard to pinpoint. Is it when they need
3 communications and it's failing as they are
4 trying to evacuate, or is it only when they
5 are in an evacuation center when we've
6 officially moved into a declared recovery
7 mode. Those are important distinctions
8 legally, but if you're in the midst of the
9 emergency, not so much.

10 So we are going to explore those
11 things today. We are going to continue to
12 press hard. I just want to say because this
13 workshop is one of three and it's about
14 telecommunications, that many people in the
15 industry come to us under different
16 circumstances. They provide the same
17 services: Voice, internet, and sometimes
18 entertainment, but they do it with different
19 technologies and different business models
20 and under different statutes, but they all
21 come to us in some fashion as utilities who
22 are demanding access to the common carrier,
23 which is the wooden poles.

24 Those wooden poles are largely paid
25 for by electric customers, who are fully
26 regulated here in the State of California.
27 So you may have different sets of legal
28 obligations, but you have an ethical

1 obligation and you have an expectation from
2 the PUC, OES, local enforcement agencies,
3 that you actually be able to participate in
4 assisting in emergencies. We'll explore
5 separately the limits of our legal
6 authorities on some of these issues, but
7 understand that there's that expectation. If
8 you fail that expectation, then there will be
9 problems.

10 Mr. Ghilarducci.

11 STATEMENT OF MR. GHILARDUCCI

12 MR. GHILARDUCCI: Thank you, Michael.

13 Well, good morning. I'm Mark
14 Ghilarducci and the Director here at the
15 Governor's Office of Emergency Services and
16 welcome to the State Operations Center for
17 today's workshop.

18 I'm going to kind of start off by
19 sort of taking a trip down memory lane. You
20 know, when I started in this business and
21 many of the public safety folks that are in
22 the room started in this business years ago,
23 you know, our focus in communications was
24 really on land mobile radio systems and
25 hardened infrastructure and landline
26 telephones.

27 Clearly, over the years that has
28 continued to change, the technology has

1 improved, and really that technology that has
2 been developed is really a tremendous
3 addition and asset to ensure that the way
4 public safety agencies respond to and prepare
5 for and recover from major emergencies can be
6 done in a much more efficient and effective
7 way.

8 What would also come with that is
9 we've moved from, what we call, secure
10 communications, secure landline, secure land
11 mobile radio systems to an internet-based,
12 cellular-based system, and as our public
13 safety are moving over to that system, we've
14 moved from a system where government had much
15 more control. We knew that the systems were
16 secure. We could build redundancy and
17 resiliency into those systems because we knew
18 that they were the lifeline, the backbone,
19 the absolute critical aspects of
20 communications that we needed.

21 I will tell you, coming out as a
22 first responder and starting at local
23 government and working through all the way to
24 the federal government, when you are
25 responding into an emergency, communications
26 are your lifeline.

27 When people are rushing out of a
28 threatened area or having to communicate with

1 911 centers, that link, that communication
2 link, is critical for life-saving operations.

3 And, in fact, that whole system
4 today where you call 911 and really begin --
5 if you are a citizen, you dial 911 to get
6 into the system to either figure out what's
7 happening in an emergency or reporting an
8 emergency, that is really the initial entry
9 into the portal of the overall emergency
10 management cycle from the point of the
11 initial response or the initial situational
12 awareness, up to the need to bring in
13 additional mutual aid, multiple agency
14 coordination, up to a full-scale statewide
15 response or a federal response to be able to
16 mitigate a crisis.

17 And, you know, I could tell you that
18 the disasters we're seeing in California, and
19 not just California, across the country,
20 around the world, due to a lot of different
21 reasons, notwithstanding climate, but
22 increased population and increased building,
23 these disasters are becoming more extreme,
24 more frequent, and more complex.

25 In 2017, for example, where we had
26 the fires in the State of California, all 58
27 counties between -- following the Oroville
28 spillway collapse through that winter season

1 up through the summer of 2017, we had all 58
2 counties in California declared as Federal
3 Presidential Disaster areas, and during the
4 fires themselves in 2017 in the north, we --
5 well, the fires, during that time,
6 represented three of the seven largest
7 wildfires California had ever seen in its
8 history.

9 So to respond to these events -- I
10 mean, preparing is one thing, but to respond
11 to these events and having a coordinated
12 ability that all happens right here in this
13 building to ensure that we all are responding
14 effectively and that on the ground our fire,
15 our law enforcement, our emergency medical,
16 emergency management, military forces,
17 et cetera, have the ability to communicate is
18 absolutely critical, but more importantly,
19 having the ability to communicate critical
20 data to the public in times of those crisis
21 situations so that they get out of harm's way
22 or to be able to know if someone is in an
23 emergency situation is absolutely critical.

24 So maintaining our
25 telecommunications capability in disasters is
26 an absolute necessity for effective response
27 in recovery operations. You know, we saw in
28 the October wildfire a total of 341 cell

1 sites go off-line. 911 calls require
2 survivable cellular networks.

3 We're moving to this -- we have land
4 mobile radios, but we're moving to this
5 system where we are dependent upon the
6 private sector, the telecommunications
7 industry that supports that system, and we
8 have to rely on that. We have to count on
9 that. So this has to be a true partnership
10 of us working together to ensure that we can
11 have that resiliency and redundancy in place.

12 In the October wildfires,
13 approximately 80 percent of all 911 calls
14 came from cellular devices; a big statistic.
15 Fifteen public safety answering points were
16 impacted. So fifteen 911 centers were
17 impacted to some level. Either they were
18 off-line; they were interrupted, or they had
19 to be evacuated. Approximately 72,000 people
20 had difficulty reaching 911; some due to the
21 inability of that system to be able to move
22 the signal.

23 And, currently, our wireless network
24 is just not built to survive the disasters
25 and many of the cell sites do not have that
26 resiliency, whether it's power backup or
27 they're built to a standard at which they can
28 withstand these kinds of events.

1 California is a disaster-prone
2 state: Wildfires, earthquakes, floods, and
3 then manmade things like chemical or
4 biological or acts of terrorism.

5 We, in this state, the nation state
6 of California, the largest state in the
7 country, close to 40 million people have to
8 be on that cutting edge of being able to
9 effectively communicate during an emergency.

10 Other issues that arose during the
11 fires was a lack of backhaul connectivity,
12 which is the connection from cell site to the
13 cellular network and clearly is required for
14 cell sites to function, the link between
15 those sites, that's absolutely necessary.

16 So we saw not just failure of the
17 sites, the cell towers, but also their
18 infrastructure that moves the signal. Most
19 cell sites rely on those fiber connections,
20 and then the fiber connections as well were
21 destroyed in many cases in the fire.

22 You know, I will say that, as I
23 started at the beginning, three of the seven
24 largest wildfires in California's history
25 occurred in 2017. We have all been learning
26 a lot from this, but I am also surprised and
27 I was surprised at the level of, I guess, I'd
28 say a lack of resiliency in the existing

1 system.

2 And it really spoke to the fact that
3 if we, in the public safety community,
4 notwithstanding the public, if the public
5 safety community is going to be counting on
6 that system for their own lifesaving
7 capability and communication, that system has
8 to be extremely resilient and redundant.

9 I will say, though, on balance, the
10 telecom teams from the various
11 telecommunications providers embedded with us
12 here at the state operations center early on
13 during those fires, and they were able to
14 provide some temporary backup capabilities to
15 address some of the losses that were taking
16 place, and, you know, they really did try
17 to -- they worked closely with us and they
18 tried to be able to get as much of their
19 resources in place for emergency
20 communications as possible, and worked hard
21 to restore the backhauls and the
22 communication connection, but I will tell you
23 it was a stressful time, I think, for
24 everybody.

25 What we want to do is buy down that
26 time for which the cell site goes down versus
27 having to bring in portable communications.
28 We know that it's not realistic to expect 100

1 percent of every site is going to be staying
2 up, but the number of sites that went down
3 and off-line was far too many.

4 Cellular, wireline, data and
5 voiceover internet protocol carriers and
6 public safety answering points all rely on
7 the backhaul connections provided by local
8 exchange carriers in order to transport
9 information to each system.

10 So it's not just us and the public,
11 but the carriers, all of us are depending on
12 this system that we're all investing in. In
13 some cases, the backhaul connections all rely
14 on the same exchange carrier and can include
15 copper wire and fiberoptic cable.

16 If the backhaul is destroyed,
17 outages can occur at the cellular, wireline,
18 data and VoIP carriers even if the facilities
19 and the sites are not destroyed.

20 So redundant pathways, network
21 diversity and backup are all critical
22 components that should be implemented to
23 ensure that backhaul connectivity is
24 maintained during a disaster.

25 As working to prioritize, we have
26 some direction and data that will help us, we
27 believe, in moving in that direction. In my
28 view, if the public safety community is

1 expecting this and the public is expecting
2 this during an emergency, what I call this
3 system has to be public safety ready. We
4 need to know that it is going to be there
5 when we need it.

6 The other thing I want to talk about
7 is enhancing our security over the new
8 voiceover internet protocol. And, again,
9 what we're going to in this state, or have
10 gone to. So as the Director of Cal OES, I
11 also serve as the State's and the Governor's
12 Homeland Security Adviser, and, again, with
13 the technological improvements we've seen,
14 other safety agencies throughout California,
15 have transitioned to the Legacy Landline
16 Systems, to VoIP, or are in the process of
17 doing it, again, we are jumping into a system
18 that we, for the most part, have no control
19 over. So it's a leap of faith, and it has to
20 be a strong partnership with our
21 telecommunication partners.

22 The availability of voiceover
23 internet protocol service is not yet
24 available all across California, particularly
25 in the rural areas, which also makes a little
26 bit for a dynamic shift for coordinating
27 across the state, but I know that is an
28 effort that the telecommunications industry

1 is working on, but since the VoIP, as they
2 call it, voiceover internet protocol, since
3 the VoIP is internet based, it also brings
4 enhanced cyber security risk to the public
5 safety agencies impacting their ability to
6 both communicate and respond appropriately.

7 What do I mean by that? So the
8 risk, the cyber security risk -- and we have
9 seen this, and we're seeing every day -- we
10 are seeing it at our 911 centers. We are
11 seeing it in our local and state government
12 offices. The risk includes, but is not
13 limited to denial of service attacks, Spam
14 over Internet Telephony or what they call
15 SPIT; voice phishing, called vishing, where
16 they go in and overwhelm the system or VoIP
17 eavesdropping, where they're listening on
18 calls. We've seen all of these.

19 From a security standpoint, this is
20 unacceptable. This is something that is very
21 critical. So notwithstanding our ability to
22 have a resilient and redundant and a secure
23 public safety grade communications
24 capability, we have to have a cyber security
25 component to that that addresses the issues
26 that we're seeing here and standards that are
27 put in place to ensure that we've got very
28 robust cyber security capabilities.

1 I will tell you from our
2 intelligence teams and what we are seeing in
3 this state and across the country, cyber
4 attacks are not getting less. They're
5 getting more. This is framing us from the
6 security standpoint, and it's a very serious
7 thing.

8 This past September -- as a result
9 of all this, this past September, the
10 governor signed AB2813, which codifies the
11 California Cyber Security Integration Center.
12 It is an integrated center led by OES, but it
13 includes the Highway Patrol, the National
14 Guard, the Department of Technology, the FBI,
15 the Attorney Generals, et cetera, and we all
16 are working very closely with our state
17 intelligence partners and trying to stay out
18 in front of evolving cyber threats.

19 And, in fact, working closely with
20 the CPUC with the new MOU that President
21 Picker mentioned to enhance and help the PUC
22 wrap around this issue of cyber security
23 risk. Through that center, we will partner
24 for both physical and virtual security of the
25 VoIP networks, realtime reporting, breaches,
26 outages, and other security measures to
27 ensure for system integrity. It's a heavy
28 lift that we all continue to work on, and we

1 look to work closer with our fellow
2 communications partners in that endeavor.

3 So today's panel list, you're going
4 to hear from local and state government
5 representatives who will discuss specific
6 issues related to the challenges in
7 defensible space for telecommunications
8 infrastructure, outage durations, recording,
9 First Net Initiative and Next Generation 911.
10 All of these aspects wrap around the need to
11 have a secure, resilient, redundant security
12 system that we can all, as I say, have a
13 public safety grade capability. We will also
14 hear about deployables and portable backhaul,
15 restoration capabilities, and alert and
16 warning community impacts as well.

17 There was a lot of legislation
18 passed this year related to alert and warning
19 of the public, and, again, everything from
20 alerting and warning, from weather
21 emergencies, to fire emergencies, to the new
22 earthquake early warning system, all
23 dependent upon the systems that we're talking
24 about today.

25 So you can get a sense of how
26 critical this is to us, how important this is
27 to us, and has to be for the public as well.
28 Most importantly, that we will hear directly

1 from first responders today and other state
2 agency responders about on-the-ground,
3 specific events that they can speak from
4 their perspectives; whether it's fire and
5 rescue or law enforcement or emergency
6 management, the challenges that they're
7 facing.

8 So, again, I welcome you all here.
9 I thank you for attending this workshop,
10 indulging me for a few minutes to talk about
11 some of my concerns. I know that my adage of
12 "One team one fight" applies here. I am
13 confident that we can continue to work
14 together as a collaborative effort to make
15 sure that the great State of California, our
16 public safety family, our citizens, all of
17 us, and our telecommunications partners are
18 all working on effectively building a system
19 that we can all count on at an optimum level.

20 Thank you very much.]

21 MS. ECKERSLEY: Thank you,
22 Mr. Ghilarducci, for those remarks. I
23 particularly resonated with 911 as the portal
24 to emergency response. And, also, thank you
25 very much for that cyber security overview.
26 We think that that's extremely important.

27 In Section 2 of the agenda, we're
28 going to talk about ensuring that both the

1 public and first responders are able to
2 communicate. And I would like to make that
3 distinction, as Director Ghilarducci just
4 did, about the public in general and then
5 first responders.

6 The public requirement is to reach
7 emergency responders and also to communicate
8 with each other in an emergency. The people
9 you need to reach in a disaster, think of
10 those people, your relatives in a fire, the
11 vulnerable people at the end of a road, your
12 child's school. There's many needs on that
13 list.

14 Emergency responders also need
15 reliable networks to communicate with that
16 public for the notifications that happen
17 before, during, and after a disaster.
18 Whether those are landline calls or wireless
19 calls or texts or whatever methodology a
20 local agency uses to deliver those.
21 Emergency responders have vital information
22 to push out to the public.

23 And we're going as to hear a little
24 more today about how first responders need to
25 talk to each other and their control
26 agencies. So just as introduction, I'm going
27 to say when we talk about facilities operated
28 by -- wireline facilities by telephone and

1 cable companies, and wireless networks
2 operated by cellular companies. And thank
3 you, also, for pointing out that wireless
4 networks rely on wireline networks to deliver
5 those communications through what is called
6 backhaul, the aggregation of those
7 communications in a facility.

8 Backhaul is often provided with
9 fiber these days, but can be satellite in an
10 emergency. So we have facilities for
11 wireline and wireless. And then we have the
12 functions that we need them for in an
13 emergency.

14 So this panel is first going to talk
15 about functions, and then we're going to talk
16 about available facilities. So, first, Mr.
17 Medigovich, who heads up logistics management
18 is going to talk about the impacts of
19 outages. And then Pat Mallon, who is the
20 Assistant Director of the 911 Emergency
21 Communications Branch, is going to address
22 FirstNet. And then we are going to have a
23 discussion about wireless emergency alerts,
24 WEA, and how public safety agencies
25 communicate with the public.

26 So each of you has some time. And
27 then I'm going to facilitate some questions
28 for the providers.

1 Mr. Medigovich.

2 STATEMENT OF MR. MEDIGOVICH

3 MR. MEDIGOVICH: Thank you for that
4 introduction. I appreciate that. So there's
5 a slide here so we can -- all right. Okay.
6 Okay.

7 So I would like to start with this
8 first slide. And it's about connecting the
9 technology. And it's going to walk us
10 through, graphically, to explain where we see
11 the limitations and how our systems integrate
12 together. Because it really helps to explain
13 it.

14 So if you start on the upper
15 left-hand side, you see land lines, wireless
16 calls, voice and internet, text and 911, our
17 cellular community. And from there, that
18 call starts and pushes into our 911
19 environment. And from there, through a
20 series of switches and routers, and
21 eventually the NextGen 911 technology, it
22 pushes that call into our public safety
23 answering point.

24 And from there, it moves back up
25 into either two spots, either land mobile
26 radio, which is the radio systems our first
27 responder community uses within the EMS,
28 fire, and law side of the household. Or it

1 can go into FirstNet broadband services,
2 which are basically cellular services now.
3 And we're seeing more and more applications
4 that are being pushed on that.

5 And then, finally, what's important
6 to understand is that the alert and warnings
7 community, which is that red balloon at the
8 bottom, comes back out into the carrier
9 environment using one of those methods of
10 transportation of the call back to its
11 community there.

12 So this simple slide is really what
13 we're going to focus on with within Cal OES
14 within our team. And you'll see each of
15 these areas highlighted as we move forward.

16 So, as said, the first start is a
17 911 call for us. And then at Cal OES, we
18 immediately go into the use of the incident
19 command system within the National Incident
20 Management system, or NIMS, for state side of
21 the household. And we have an emergency
22 function which is based on communications.
23 And having that background of communications
24 for us is the cornerstone for our ability to
25 respond and to provide information to the
26 director and the unified coordinating group
27 so that we can make good decisions and
28 respond to the event that's there. This is

1 both during the response phase and recovery
2 phase that we work with.

3 So, as pointed out, there's an
4 assumption that our systems are going to
5 work; both ours and our partners within the
6 carrier industry are going to be functioning.
7 And they have to be reliable. And they have
8 to be resilient.

9 It's no surprise that every day
10 there's new technologies that are coming out.
11 And everybody wants to embrace those new
12 technologies. But if those new technologies
13 are not reliable and not resilient, it just
14 creates another vulnerability in the response
15 and recovery phase of our work.

16 So what I wanted to kind of
17 highlight were some of the recent events we
18 just saw here in North Carolina and South
19 Carolina here, and then we'll go into
20 Florida. And the key takeaway from this is
21 -- these are significant disasters that are
22 taking place. And if you look at the 15th,
23 you can see a wide block of the percentage of
24 cell sites that are down as the hurricane is
25 moving in. And there's still many areas that
26 were not restored a week later.

27 And so this has a traumatic impact
28 when you're trying to either do the response,

1 recovery, or alert and warnings to the
2 community that's there. And no different in
3 Florida, as we saw in the panel at least in
4 the severity of the category of that
5 hurricane created a much higher level of
6 percentage of cell sites that were offline.
7 So we had well over 60 percent in one county
8 for a solid week taking place. So when you
9 see that many sites that are down and that
10 kind of dependency on our operational
11 systems, it creates a lot of challenges for
12 the emergency response efforts to take place.

13 Well, what does that mean for us?
14 We have this component, this emergency
15 function for communications that's supposed
16 to be advising us all. It's dependant upon
17 us having good situational awareness. And
18 that means that we have to have to have
19 monitoring capability or reporting
20 capability. And we currently do that now
21 through voluntary sharing of information
22 between our providers and then Cal OES. But
23 without good outage notification or good
24 situational awareness, as stated, we can't
25 make good decisions.

26 So we look forward to this
27 opportunity to work together with CPUC. And
28 we'll continue to work with our technological

1 partners as we move forward. And I look
2 forward to your questions and comments today.

3 At this point in time, I'll be
4 followed by Assistant Director Pat Mallon who
5 oversees our Public Safety Communications.
6 And he's going to give you an update on
7 FirstNet.

8 MR. MALLON: Thank you, Mitch.

9 STATEMENT OF MR. MALLON

10 MR. MALLON: You saw in this -- oops, I
11 went the wrong way.

12 Okay. So, you saw this slide
13 before. And what we're going to be doing is
14 focusing on the upper-right portion of your
15 screen on the FirstNet broadband services.

16 FirstNet was an outgrowth of the 911
17 after-action report that highlighted the lack
18 of information flow to our first responders
19 in real time, which resulted in the loss of
20 public safety lives, as well as those of the
21 citizens that we serve. Network congestion
22 has also been noted to be a huge problem in
23 911 responses, as we saw in the Boston
24 marathon bombing when cellular services were
25 pretty much consumed by the commercial
26 traffic, yet public safety was on that same
27 service.

28 To answer this issue, back in 2012,

1 Congress passed legislation which established
2 the first responders network authority which
3 was called FirstNet. The focus of FirstNet
4 was to provide public safety with data. And
5 in response to this issue with the congestion
6 of the services, that service of data to
7 first responders also included priority and
8 preemption.

9 Priority means that if there's ten
10 people on the sector that can use that
11 sector, and you come on as public safety,
12 you'll be number one in queue waiting for
13 access to that system. Preemption means you
14 jump to number one and you kick somebody else
15 off the system.

16 So last year after review of a plan
17 by FirstNet and its contractor AT&T, the
18 Governor allowed to opt in and allow AT&T, as
19 FirstNet's contractor, to deploy a public
20 safety broadband spectrum Band 14 throughout
21 the State of California. AT&T's plan,
22 recognizing a significant amount of input
23 from Cal OES recognized, and our partners
24 with local agencies, that coverage was key.
25 And so we've been working with AT&T, and they
26 have committed to throughout the next five
27 years to significantly improve the coverage
28 range in California for FirstNet services.

1 Also, subscription to FirstNet is a
2 local choice. So if local agency determines
3 that other providers can provide better
4 service, at least until such time as their
5 improvement in the services, that's entirely
6 their function.

7 The role of Cal OES, Cal OES we've
8 been an active participant since the FirstNet
9 was first established. Our role is to
10 provide locals or state-level input into the
11 FirstNet plan. We did that by conducting a
12 number of outreach sessions throughout the
13 State of California. We listened to our
14 partners, and we provided input that was
15 ultimately included in the FirstNet RFP that
16 was won by AT&T. This included regional
17 planning meetings, and communications with
18 the local partners.

19 We've also been an active
20 participant since the execution of the
21 contract with AT&T, we've been an active
22 participant with the California Department of
23 Technology in completing the CalNet project,
24 which will allow State agencies to subscribe
25 to the AT&T FirstNet services, as well as
26 local governments through the overall
27 umbrella.

28 And, again, in recognizing that not

1 all agencies, particularly in the interim,
2 may elect to subscribe to the AT&T service
3 and may choose to go with others. We will be
4 working with CDT in the very near future to
5 establish a CalNet contract for other service
6 providers to provide public safety broadband.

7 Mostly important to us is the
8 ability to define specific services and the
9 parameters of throughput, et cetera, the
10 coverage requirements that are going to be
11 required and, ultimately, the cost. Cal OES
12 also recognizes that we will be -- that we
13 have to remain active in our role as leaders
14 in coordinating public safeties' needs to
15 AT&T and other providers, you know, as we do
16 with other incidents throughout the State of
17 California.

18 We also provide coordination of
19 resources, including a land mobile radio
20 communications. We see the same requirement
21 under FirstNet. We -- again, to address this
22 issue of coverage, coverage is key. We will
23 continue to work with FirstNet to improve
24 coverage throughout the State, including
25 building coverage, rural areas, and tribal
26 lands, which are largely neglected
27 unfortunately.

28 We will be working with AT&T and

1 FirstNet to convey operational concerns and
2 to provide a contract support to CDT on the
3 CalNet procurement process. Lastly, we'll
4 act as the go-between for local responders
5 and large area responses, including statewide
6 coordination with the State operations
7 center.

8 Next up is Caroline Thomas-Jacobs
9 who will talk about WEA.

10 STATEMENT OF MS. THOMAS-JACOBS

11 MS. THOMAS-JACOBS: Good morning. So
12 I'm going to talk about our alert and warning
13 program, specifically around wireless
14 emergency alerts.

15 So IPAWS, the Integrated Public
16 Alert and Warning program is managed at the
17 federal level. So it's a Federal system,
18 executed out of FEMA. It's coordinated at
19 the State and regional level, and executed at
20 the local level. And this is really
21 important because it's the locals that we
22 need to support for them to be able to
23 execute our alert and warning mission.

24 Cal OES reviews all local
25 applications prior to submission. And they
26 are approved at the federal level. Right
27 now, we have 45 counties that have been
28 approved for the IPAWS system.

1 The IPAWS system has multiple
2 methods of communication. So as you'll
3 notice on the slide here, the local, triable,
4 territorial State and Federal government
5 entities can communicate through the alert
6 and warning system. But it's distributed to
7 the residents through multiple forms of
8 communication.

9 So, historically, it's been the
10 Emergency Alert System, when most people got
11 their public forms of communication through
12 broadcast and radio. We're now moving more
13 into the Internet and wireless environment.
14 And most residents expect to be getting their
15 alerts through their mobile devices. And
16 this is important in relation to what
17 Director Ghilarducci mentioned in terms of
18 having a very robust and resilient cellular
19 network.

20 So in terms of wireless emergency
21 alerts, I'm going to focus on that particular
22 method. That method is slightly different
23 than the other methods that we have used
24 historically in the past. The wireless
25 emergency alert is an alert you receive over
26 a mobile device. And it's an opt-out system.

27 So the device has to be enabled for
28 the wireless emergency alert to be received

1 on that. So the user has to have a device
2 that has that capability.

3 Their device will default to
4 receiving those alerts unless the user opts
5 out from receives those alerts; which
6 different devices provide easier or a less
7 easy access to understanding how to do that.
8 For example, some devices when the alert
9 comes up, it will immediately offer an option
10 for the user if you want to opt out of these
11 in the future, just press button. Other
12 devices might say you have to go into the
13 settings and opt out of the wireless alert.
14 So that's important because our users and our
15 residents are expecting to be communicated
16 with.

17 As the form of communication have
18 diversified, so whether it's through social
19 media, or their old school cable TV, or their
20 wireless mobile device, they are expecting to
21 be communicated with. We now have to
22 communicate through all of those forms of
23 channels to reach our users and residents
24 across the State. Most of those devices now
25 are relying on this infrastructure that is
26 cellular based.

27 Also, what's different about WEA is
28 that it's a unique tone and alert. A lot of

1 people have a misconception that it's a text
2 message. It's not a text message. It comes,
3 breaks through the phone, and is visible
4 whether you've been in "Do not disturb" or
5 not, and it's not in your text messaging
6 through the operating system that's on the
7 phone.

8 So one of the challenges with WEA
9 has been that we have not been able to
10 actually test the system. Federally, the
11 first national test just happened this fall
12 which many of you probably received over your
13 phone in early October. And that was the
14 first test of WEA system.

15 Since then, local governments have
16 been working with the FCC to gain approval to
17 test within their specific regions. So Napa
18 and Sonoma have tested in their specific and
19 we're now sending a letter to the FCC to
20 actually test through WEA as well,
21 specifically around early earthquake warning
22 system.

23 What's important about that is we
24 need to understand the technical details of
25 how people receive and when people receive
26 those alerts. So from the moment we push
27 execute on that alert, to the moment the user
28 receives that alert on the phone, that timing

1 is extremely important to us. And I'll talk
2 a little bit more about that in the next
3 slide -- or the following slide.

4 So statewide guidelines in alert and
5 warning. As I mentioned earlier, it's
6 executed at the local level which means that
7 each jurisdiction does it that fits their
8 specifics that are required in their
9 jurisdiction, the configuration whether they
10 are rural or urban, what their geography
11 looks like, what their constituents are used
12 to receiving messaging on. What we're doing
13 now is recognizing that that's difficult for
14 the users, that we need to establish some
15 standards across all the jurisdictions on how
16 we execute early alert and warning.

17 So what we're working on right now
18 is a draft statewide alert and warning
19 guidelines. It's been approved by our
20 statewide emergency management system
21 technical group, and we're submitting it to
22 our advisory board for this December to be
23 reviewed and potentially approved. What
24 that's going to do is establish some best
25 practices to allow the jurisdictions to
26 understand what they can do to ensure that
27 they have a very robust and successful alert
28 and warning program.

1 So what the current challenges are,
2 so, as I mentioned, we have very robust
3 communities and they differ across the
4 jurisdictions. So depending on the resources
5 of the local jurisdiction, staffing, and
6 funding, they might have only one person
7 that's overseeing alert and warning or they
8 could have a team of people in our more
9 financially capable areas.

10 And also there's a lot of
11 complexities to the way that communications
12 are received by our constituents across the
13 communities. So there is a plethora of
14 communication channels, ever evolving
15 technology -- so our jurisdictions are
16 regularly having to keep up with the
17 technology improvements and changes and
18 making sure that they are staying abreast of
19 that.

20 And then, also, inconsistent
21 implementations. So that's where the
22 guidelines are going to become really
23 important. And we can try to provide some
24 consistency across how alert and warning is
25 executed across California.

26 Also, geography is extremely
27 different, as you all know, in California
28 which makes it challenging in terms of where

1 those residents are actually located in
2 receiving that form of communication.
3 Obviously, we don't have cell coverage across
4 everywhere; but that's what people are
5 relying on to be able to get their
6 communications. Also, a couple significant
7 areas that are hard for our local
8 jurisdictions to manage are the geotargeting
9 and the length of the message in WEA.

10 In terms of the future of WEA, I
11 know we have some changes that are coming
12 very shortly. So we're going to -- this
13 month, we're getting Spanish language
14 capability in WEA, which is a significant
15 improvement for us. And then we also are
16 going to be working to expand from 90
17 characters to 360 characters. But that's not
18 coming until May of 2019, and this obviously
19 is an impact right now.

20 And we're also looking at getting
21 more targeted geofencing to 0.1/10 of a mile,
22 which will also improve. But, again, that's
23 not until later -- until November of 2017
24 (sic). And our jurisdictions and our
25 constituents across California are expecting
26 that level of communication right now.

27 Thank you.

28 MS. ECKERSLEY: Warming up for

1 questions.

2 Okay. Thank you, everyone, for
3 those remarks. Thank you, also, for the
4 Hurricane Michael charts and the comments
5 about redundancy and resiliency. Also, for
6 the CalNet purchasing clarity, I know that
7 that will be a very helpful thing for the
8 local governments to be able to do that.

9 I would like to look to President
10 Picker and Mr. Ghilarducci now to see if you
11 have any questions now that you would like to
12 lead off before I facilitate some others
13 based on what you heard.

14 STATEMENT OF COMMISSIONER PICKER

15 COMMISSIONER PICKER: So our initial
16 resolution focused a lot on the immediate
17 needs of people who have been dislocated.
18 Here we're hearing from a range of different
19 consumers of telecommunications services and
20 how their needs are met during emergencies
21 and immediately after. And, as I pointed
22 out, it's really hard to point to a specific
23 point where you're dealing with after.

24 There are some standards that people
25 use for when recovery begins, but it
26 frequently starts during the emergency. And,
27 meanwhile, emergency operations are
28 continuing. So here we're posed the

1 challenge of how do you separate the
2 obligations of telecommunications providers
3 to actually plan, prepare, and to provide
4 services during emergencies.

5 And so I'm curious to see if people
6 can help us to really define a distinction
7 and if -- I'm skeptical that there is an easy
8 answer. But I'm going to open it up for
9 comment for that here at some point today.

10 STATEMENT OF MR. GHILARDUCCI

11 MR. GHILARDUCCI: Yeah. Thank you.

12 I agree with President Picker. I
13 think the issue has to do -- based upon what
14 we've heard already this morning, is really
15 to get a strong idea about how our
16 partnership is blended. And it's not like a
17 provider and a customer, but that we are all
18 on the same page and that the priority is for
19 not a, you know, anything but a fully
20 comprehensive and capable system that we in
21 the public safety community can 100 percent
22 rely on as the provider.

23 Right now, that confidence does not
24 exist. And it is something that we need to
25 -- and that's a culture issue. It's a
26 priority issue. It's an understanding and
27 mutual respect on both sides of the
28 industries so that we can come to a place

1 where we're all working on making sure that
2 we're a hundred percent resilient and
3 redundant.

4 Thank you.

5 MS. ECKERSLEY: Okay. Let me frame
6 that as a question for the audience, for the
7 respondents here. And that would be what
8 specifically -- what specific actions should
9 the CPUC and/or Cal OES take to ensure that
10 communications are available in a disaster,
11 particularly to the redundancy and resiliency
12 points that Mr. Ghilarducci just made.

13 Just hold your hand up.

14 STATEMENT OF MS. SALAS

15 MS. SALAS: Good morning, everyone.
16 Thank you. Ashley Salas with TURN. The
17 Utility Reform Network. I appreciate the
18 presentations and the topics and questions
19 today. I think they are very important and
20 valuable.

21 And a lot of what was discussed
22 today and with other incidents that happened
23 throughout the nation, we saw here in
24 California with our various wildfires. North
25 Bay, North Coast broadband Consortium
26 actually did a survey of their residents
27 following the October 2017 wildfires. And I
28 think what we'll find from that is the

1 residents and the first responders who
2 responded to that survey, they have an
3 expectation of being able to communicate and
4 that expectation was not met.

5 So that survey has been published.
6 We submitted it as part of a motion in the
7 Bill Kahl conclusion docket. So it is
8 available to the Commission as well. I
9 wanted to highlight a couple things from
10 there:

11 First responders being able to
12 communicate with one another, there wasn't
13 the wireline services available to them.
14 Some first responders had to use a resident's
15 hand radio in order to communicate with their
16 home office. Other first responders found
17 there was no wireless services available.

18 And for consumers, on the same
19 block, one resident had service while the
20 rest of the residents on the block did not.
21 Now, these were just residents that were
22 responding, we don't know specifically what
23 communication services they had or what
24 technologies they had.

25 But I think it highlights that there
26 isn't that redundancy in the system at the
27 moment that we need in order to facilitate
28 communications during an emergency between

1 first responders and between residents and
2 consumers.]

3 One of the issues that was brought
4 up was about VoIP. Now, VoIP was an issue
5 that we brought up, as consumer advocates, is
6 the need for battery backup to ensure that
7 those VoIP services are accessible during
8 disaster-related emergency or when there's
9 (indecipherable) to prevent a disaster.

10 Without that energy or battery
11 backup at the residence and at the network,
12 those VoIP services are not available to the
13 consumers. And if the first responders are
14 relying on that, too, presumably not to them
15 as well.

16 There was a discussion about outage
17 reporting. The Commission has a tool in
18 their hands right now through the roll call
19 completion decision that came out last year
20 to look at outage reporting and for staff to
21 find the right granularity for what would be
22 most helpful for staff and for the
23 communications providers to move forward and
24 figure out, you know, what's going on out
25 there. I'll note Nora's reporting is not
26 sufficiently granular in order to provide
27 that insight.

28 The Commission has other tools

1 available to them. Ongoing right now is the
2 Search Quality Study of the AT&T and Frontier
3 Networks. In the service quality reports
4 that came out for 2017, with the exception of
5 most of the small LECs, the providers did not
6 meet the Commission's services quality
7 standards. So that's one way the Commission
8 can look at the resiliency and reliability of
9 the networks, to use that tool.

10 And, of course, there's maintenance
11 and tools available to the Commission to make
12 sure that there's resiliency there.
13 Vegetation management, of course, GO 95, and
14 looking at, you know, lessons learned from
15 some of those issues.

16 So the Commission does have tools
17 available to it, and we would encourage the
18 Commission to utilize those tools that are in
19 their hands so that consumers and first
20 responders have communications available to
21 them before, during, and after emergencies.

22 MS. ECKERSLEY: Thank you.

23 I think we heard as well from the
24 panel here regarding the importance on
25 wireless communications. So if one of the
26 representatives from one of the wireless
27 companies would discuss during -- or in their
28 comments, Verizon wireless said that their

1 ability to offer relief is dependent on a
2 variety of factors including location,
3 magnitude of disaster, available resources,
4 and technological considerations. I'm
5 wondering if one of those cellular carriers
6 would care to elaborate or further comment on
7 those communications.

8 PRESIDENT PICKER: Real quickly, just
9 as a procedural issue, I'd like to ask the
10 judge and his staff to make sure we
11 incorporate the published record from rural
12 call completion proceeding in this proceeding
13 so that we can take advantage of the record
14 there as well.

15 ALJ RIZZO: We will.

16 STATEMENT OF MR. ROMAN

17 MR. ROMAN: My name is Jesus Roman,
18 Associate General Counsel for Verizon. And
19 so, generally speaking, I think we all know
20 that the wireless network has to have the
21 backhaul. So if you don't have the backhaul
22 and you have a situation where even if you
23 have resiliency and redundancy, there's a
24 massive disaster that burns all of the fiber
25 or a lot of it or some of it, then even cell
26 sites that have had no impact from the fires
27 will go off air.

28 So from a wireless perspective, the

1 ability for us to actually have wireless
2 communication impacted by the backhaul -- I'm
3 an attorney so I don't have the technological
4 expertise to actually provide more detail,
5 but I did reach someone that I believe will
6 have the ability to speak to some of the
7 challenges that wireless carriers, at least
8 Verizon has, in making sure that our systems
9 are functioning properly even during a
10 disaster.

11 I will say that we're very proud at
12 Verizon that in most of these disasters that
13 we have had in California, that we've been
14 able to have a network that is running, and
15 if not running full speed ahead, that we're
16 able to deploy, as called here, the
17 deployables to help at least on a temporary
18 basis.

19 We pride ourselves in having the
20 best network. We definitely agree that 911
21 and the public safety is extremely important,
22 critical, and we want to do right by our
23 customers. So I'm going to have Jim Cigler
24 speak to you.

25 STATEMENT OF MR. CIGLER

26 MR. CIGLER: Hi, I'm Jim Cigler. I'm a
27 Senior Manager for Network Operations for
28 Verizon. I totally agree with everything --

1 I was listening to the presentation talking
2 about redundancy and resiliency. I do want
3 to point out in the Napa and Sonoma fires
4 2017, the cell sites that we had that relied
5 on fiber, we had a pretty much equal split
6 between different providers and we lost both
7 of them. So in a case of that situation,
8 having redundancy, even through another
9 provider, would not have been sufficient to
10 keep those cell sites on the air.

11 There is a lot of talk -- I do spend
12 some time at OES and I've worked with some of
13 the great staff over there, and occasionally
14 the discussion comes up about microwave
15 backhaul --

16 MS. ECKERSLEY: Or satellite.

17 MR. CIGLER: Or satellite, yes.

18 On satellite, most people, or
19 probably technology, realize it's a very low
20 capacity. It's not a great long-term
21 strategy. We do continue to work with
22 satellite companies to try to find solutions.
23 Right now, we do have some small surgical
24 solutions that do use satellite technology.
25 We're trying to look at some bigger ones.

26 When it comes to microwave, you
27 know, we could have an entire off-line
28 discussion about the challenges associated

1 with microwave, but that question does come
2 up a lot, but it's probably pertinent to
3 point out that as wireless companies move
4 into the 5G world, our dependence on that
5 fiber backbone is only increasing, and
6 microwave, again, is a very limited,
7 challenging backup scenario.

8 We do it during disaster recovery.
9 It does provide reduced capacity, per se, but
10 it is a fast, quick deployable solution that
11 we do use, and we'll continue to use for the
12 foreseeable future.

13 MS. ECKERSLEY: Some of the challenges
14 in microwave without going into --

15 MR. CIGLER: Great detail?

16 MS. ECKERSLEY: Yes. Just the high
17 points, please.

18 MR. CIGLER: Sure. You've got a
19 culmination. First of all, there's a lack of
20 licensed microwave available. You do have to
21 have licensed frequencies that are available
22 to not interfere with one another. You've
23 got to be able to hang sometimes very large
24 heavy dishes on towers that are already
25 having trouble supporting what's there.
26 They're already loaded.

27 So you either build those towers to
28 make them beefier, stronger, and

1 unfortunately sometimes that means they might
2 be a little uglier, or you proliferate a need
3 for additional towers, which I think, as most
4 everyone in the industry knows, is not always
5 a loved solution either.

6 Sometimes you can't have a microwave
7 solution at all. Microwave is a
8 line-of-sight style of technology. So if you
9 don't have a way to get a line of sight,
10 that's an issue.

11 And, again, really, it just doesn't
12 fit into our evolutionary path, but it will
13 continue to be something that we see for the
14 future for disaster deployment.

15 MS. ECKERSLEY: It doesn't fit into the
16 evolutionary path?

17 MR. CIGLER: Yes. As we move to 4G and
18 5G, even 4G is a very high speed
19 fiber-dependent network and as we advance 4G,
20 we provide faster and faster services to our
21 customers, we require a faster and faster
22 backhaul and --

23 MS. ECKERSLEY: And the microwave
24 doesn't fit as you go forward?

25 MR. CIGLER: It doesn't grow.

26 MS. ECKERSLEY: Thank you.

27 President Picker.

28 PRESIDENT PICKER: Can you hear me now?

1 THE AUDIENCE: Yes.

2 (Laughter.)

3 STATEMENT OF MR. PICKER

4 PRESIDENT PICKER: So the cellular
5 companies actively promote their ability to
6 provide universal access. They also actively
7 are understood by the public to be a tool
8 that will be used in a variety of
9 emergencies.

10 Every time I talk to a senior who
11 has a phone, they talk about the fact that
12 they need that cell phone to contact people
13 in the case of emergency, and we've seen that
14 fail.

15 Here, you're telling us that we're
16 building a system that has more points of
17 failure and is more dependent on a particular
18 component that is a failure point.

19 How do you plan around that? And
20 are there critical points that you absolutely
21 will protect, so, for example, public safety
22 coordination for their communication
23 purposes?

24 How do we begin to understand how
25 you're going to provide that essential
26 service to customers in these points of
27 crisis? It's not just fire; it could also be
28 floods, which attack fiber, backhaul equally

1 as much.

2 I'm struggling to understand what we
3 will tell the legislature when they call us
4 and tell us that we failed to ensure reliable
5 communications services. How are you going
6 to begin to do that?

7 MR. ROMAN: President Picker - this is
8 Jesus again for the record - I think what Jim
9 was trying to express wasn't that there's
10 additional points of failure here.

11 PRESIDENT PICKER: He did do that very
12 well.

13 MR. ROMAN: 4G is not going away. I
14 think the point was the microwave itself --
15 we're going to have the ability to deploy our
16 infrastructure in a way that is resilient.

17 The point that I believe Jim was
18 saying is, hey, if you're going to try to use
19 microwave as a deployable technology, as
20 you -- you can do that for 4G and it's still
21 going to work even for 5G, but for 5G, the
22 amount of fiber that's required to make it
23 work as fast speeds with the low latency is
24 going to be more robust.

25 And, Jim, you can correct me if I'm
26 wrong.

27 MR. CIGLER: He is correct. The whole
28 point of a microwave -- we will continue to

1 use microwave as a disaster deployment. I'm
2 not disagreeing with that at all, but in
3 terms of -- the question may be, why don't we
4 just build the entire network to run on
5 microwave so that we don't have fiber
6 dependency? That does not work with the
7 evolving technology.

8 STATEMENT OF MR. PICKER

9 PRESIDENT PICKER: I understand you're
10 trying to educate us about the weaknesses of
11 microwave as an alternative, but you also did
12 very distinctly and clearly say you're
13 increasing dependence on fiber, which is at
14 risk and that was an initial comment from
15 Jesus.

16 Is an issue -- and I'm asking you to
17 give us some understanding of how you begin
18 to actually provide service to public safety
19 customers and have a clear answer to how
20 you're trying to harden the system that
21 people will become more dependent on, and
22 which you said is going to be at a greater
23 risk because of the complexity of the 5G
24 system.

25 So I understand you were trying to
26 respond to the assumption that the microwave
27 could provide that, but you also revealed to
28 me very clearly and I'm just saying, I need

1 to understand how you're going to make the
2 system.

3 STATEMENT OF MR. ROMAN

4 MR. ROMAN: So that's the complex
5 question, I think, in terms of how we answer
6 it because I think the system is evolving and
7 we are trying to figure out how to do exactly
8 what you're saying.

9 As we are dependant on other parties
10 for the fiber, and that presents an
11 additional complexity, but I will say this,
12 in terms of ensuring that if there is a
13 disaster and the fiber isn't burnt or somehow
14 damaged, one thing that we've been trying to
15 do, when we actually deploy fiber, is we
16 deploy it underground.

17 Underground gives you the ability to
18 avoid the issues that you're having with this
19 area. And that's just one.

20 PRESIDENT PICKER: But you use
21 broadcast technology; so at some point, it's
22 going to climb to the antenna; so you can
23 give us complex answers, but we need that
24 answer.

25 MR. ROMAN: Okay.

26 MS. ECKERSLEY: Being mindful of the
27 time, I would like to take any other
28 questions or comments from the audience, and,

1 please, identify yourself.

2 STATEMENT OF MS. MICKIEWICZ

3 MS. MICKIEWICZ: Helen Mickiewicz for
4 the California PUC. I happened to see on my
5 phone just now that in an earnings call last
6 week, Verizon's CFO, Matt Ellis, told
7 investors the FCC's recent decision on --
8 that eliminated local -- caps local fees
9 would not prompt Verizon to increase its
10 investment in 5G, and, if, in fact, Verizon
11 is reducing its overall investments over --
12 in this year, over last year, and I'm just
13 wondering what that means for purposes of the
14 conversation we're having today.

15 MR. ROMAN: So, Helen, I was a bit
16 interrupted when you were talking, but if I
17 understood your question, what I heard, was
18 Matt Ellis said that we're going to reduce
19 our investment -- not reduce our investment,
20 but that the FCC order did not necessarily,
21 specifically --

22 MS. WOMAN: No. I can tell you what I
23 said.

24 MR. ROMAN: Tell me.

25 MS. MICKIEWICZ: What I said was the
26 report said that Verizon is not speeding up
27 investment in 5G, notwithstanding the FCC's
28 recent order capping local fees and making

1 other changes, and that Mr. Ellis said -- I'm
2 sorry. And that the report said that
3 Verizon's overall capital investment is going
4 down somewhat.

5 And I was asking if you have any
6 comment on what that means in terms of trying
7 to enhance the system that's being discussed
8 today.

9 STATEMENT OF MR. ROMAN

10 MR. ROMAN: So the only way I can
11 respond to that, Helen, is to say that we're
12 full steam ahead with deploying 5G. We have
13 partnerships with Sacramento, with San Jose,
14 with other cities. We've announced -- we're
15 the first to announce 5G, and we're working
16 really hard at making sure that we're first
17 in 5G everywhere.

18 I, frankly, don't see it impacting
19 at all because we have not slowed down. Our
20 response, as they say, is pedal to the metal
21 here.

22 MS. ECKERSLEY: Thank you.

23 Are there any other comments?

24 Okay. We would like to move to the
25 next session. Thank you. I will introduce
26 you to Mr. Lee who will take you through
27 Session 3.

28 STATEMENT OF MR. LEE

1 MR. LEE: Thank you. My name is Chasel
2 Lee, from the California PUC Communications
3 Division, and I will be the facilitator for
4 Session 3: Discussing the expansion of
5 3-digit communication systems during
6 emergencies. Our first speaker for Session 3
7 is Budge Currier from Cal OES who will give
8 us an update for 911.

9 Mr. Currier.

10 STATEMENT OF MR. CURRIER

11 MR. CURRIER: Thank you.

12 My name is Budge Currier. I'm the
13 911 Branch Manager at Cal OES and I have the
14 responsibility for the 911 system in
15 California as well as a few other functions.

16 We'll be focusing back on this
17 diagram and so we're using this kind of as a
18 point of reference as to which part the
19 communication is focused on.

20 At this point we're talking about
21 911, which is focused on getting information
22 from those who need help to those that can
23 provide help at the public safety answering
24 point. This presentation that I'm going to
25 give, when I presented to the 911 advisory
26 board took 45 minutes. I've been given three
27 minutes. So I will be moving rather quick.
28 That full presentation is available on our

1 website at Cal OES, slash, 911. You can get
2 all the slides in the entire brief.

3 This slide is important because our
4 statistics each year show that about 80
5 percent of our calls to 911 come in from a
6 wireless device. Obviously, you can't access
7 911 with a wireless device if the wireless
8 network is down during a disaster. So this
9 is a huge problem.

10 Wireline devices, similarly, which
11 is the next metric there, that 15 percent, if
12 the infrastructure is damaged, the overhead
13 poles, the lines, that sort of thing, those
14 calls are not accessible. The voiceover IP,
15 often travel across the same wires, if those
16 are damaged, you can start to see the
17 rippling effect of being able to reach 911
18 during a disaster. And so millions rely on
19 911 each year. The stats are a little less
20 than 77,000 911 calls a day in California.

21 What we're seeing with our existing
22 network, our existing point-to-point network
23 that we have out there, is that we're seeing
24 the number of outages increase. We track
25 these. We've tracked these for many years,
26 and we're seeing an average of about 15
27 outages a month, about 255 hours of downtime.

28 There's a new network, Next Gen 911.

1 We've talked about it. We're in the process
2 of implementing that. Just by way of
3 comparison, Next Gen 911 with 5-nine's
4 reliability equates to 26 seconds of downtime
5 per month. So this is what we have today and
6 we're trying to move aggressively toward Next
7 Gen 911.

8 The other portion of our 911 system
9 today, the path, when you make a 911 call,
10 your audio goes one path; your location
11 information goes a different path. They both
12 arrive at a public safety answering point and
13 they are linked back up. So that location
14 path also has some challenges. We are seeing
15 there's about 20 outages a month for those,
16 an average of about 219 hours a month, and
17 that information is simply not available.

18 In addition to that, because of the
19 way that wireless calls are processed today,
20 only about half of the calls arrive in the
21 911 center with location. So that means the
22 first 30 to 40 seconds of your 911 call is
23 spent asking where you are, and there's a
24 better way to do this. And so Next Gen
25 solves this problem. It's going to increase
26 location accuracy.

27 Another limitation with our current
28 system is that the systems now are tariffed.

1 So this slide is showing as we move into the
2 Next Gen environment, we anticipate these
3 services to be tariffed. This provides an
4 overview of the tariffs that will be
5 established to support Next Gen 911.
6 And the limitations I mentioned, most
7 specifically, the one I want to highlight is
8 the lack of redundancy. We have many
9 point-to-point circuits today in our network.
10 When that single connection goes away, there
11 is no backup and so that 911 center becomes
12 isolated, and, obviously, we need to find a
13 way to fix that.

14 Then moving forward to Next Gen 911,
15 we have a little revenue challenge we're
16 working on. We have some legislation we're
17 going to be presenting to make some
18 corrections to the 911 funding model that
19 will support Next Gen 911 to allow us to
20 sustain our current system.

21 So, in short, the current system has
22 limitations. We have a path forward to
23 address those limitations, but the portion of
24 the network that I'm going to build into
25 redundancy still doesn't solve the ingress
26 path for the citizens that are going to be
27 trying to access 911.

28 Once that 911 call arrives in this

1 Next Gen environment, it will be a reliable,
2 redundant path. So our conversation focuses
3 on making sure that the originating service
4 providers, regardless of technology, have a
5 system to route those calls in.

6 So next up we're going to talk about
7 the 211 system.

8 STATEMENT OF MR. LEE

9 MR. LEE: Thank you, Mr. Carrier.

10 Now it's my turn to spend three
11 minutes talking about 211 instead of 15.

12 So what is 211? 211 is a free
13 telephone number by which Californians can
14 obtain information and referrals for health
15 and human services programs and they also
16 obtain disaster information. They can obtain
17 information on shelters, on food, where to
18 evacuate, how to evacuate, where the roads
19 are closed, and various other methods of
20 assistance.

21 As of today, 38 counties in the
22 State of California have access to 211
23 services. They comprise 96 percent of the
24 state's population. There's 20 remaining
25 counties that don't have this service.
26 They're mostly rural. They're mostly in
27 northern and eastern California. The biggest
28 one is Placer County, which is northeast up

1 here. I don't know how big that is. Sorry.
2 It's also where Lake Tahoe is.

3 The CPUC's authority over 211 is
4 mostly restricted to granting our service
5 providers, information and referral service
6 providers, the use of the 211 code in a
7 particular county. So there's an approval
8 process set up in 2003. They just go through
9 the approval process. Once they're approved,
10 they are served in accordance with the
11 approval resolution.

12 For Disaster Only 211, Senate Bill
13 1212 passed in 2016 and CPUC Decision
14 11-09-016 passed in 2011 gives the Commission
15 the authority to approve those providers and
16 to spend up to \$1.5 million from the
17 California Teleconnect Fund to implement
18 Disaster Only 211 services in the remaining
19 20 counties that I spoke of earlier.

20 What is the CPUC doing now with 211?
21 They're currently collaborating with those 20
22 counties I was discussing and with 211
23 service providers to craft a statewide
24 proposal to implement Disaster Only 211.

25 We just got a buy-in from the
26 majority of the counties yesterday, from 11
27 counties, and we're now going to solicit
28 implementation proposals from providers and

1 adopt a final proposal to implement Disaster
2 Only 211 in early 2019.

3 This entire process, we're going to
4 get Disaster Only 211, we are currently
5 projecting that it will be completely
6 implemented by the end of next year in 2019.

7 So for our next presentation, we
8 have Mr. Gabriel Kendall, Director of
9 Community Relations and Program Development
10 for 211 Sacramento.

11 Mr. Kendall.

12 STATEMENT OF MR. KENDALL

13 MR. KENDALL: Good morning. Again, my
14 name is Gabriel Kendall. I'm the Director of
15 Community Relations and Program Development,
16 211 Sacramento. Today, I'm actually going to
17 spare you listening to the hour-and-15-minute
18 presentation. So it's a good thing for all
19 of you.

20 So as Jason mentioned, we do all our
21 information on rural services -- these
22 microphones are never a friend of mine. So
23 we're focused on social, health services,
24 information referral, as well as disaster
25 recovery and support in terms of nonemergency
26 disaster support services. So initially the
27 Information Referral Service was established
28 in roughly the 2001 to 2005 edition of the

1 nonemergency disaster component.

2 In terms of some of the background
3 of 211 Sacramento, our primary service area
4 include Sacramento and Yolo County. We
5 maintain a service database, which does
6 include the disaster recovery services in
7 addition to the social and health services
8 programs.

9 THE REPORTER: Slow down, please.

10 MR. KENDALL: 1,600-plus programs in
11 the community. Sorry. I'm trying to get
12 through a good bit of content in a very short
13 period of time out of respect for your time.

14 We are a 24-hour service center. We
15 have five languages spoken in-house and then
16 an additional 250 languages and dialects
17 serviced through (indecipherable) available
18 live 24 hours a day. Being here in
19 community-side Sacramento County, largest
20 refugee settlement site in the country,
21 having that diversity in terms of language is
22 a very important piece, and also in terms of
23 making sure we are able to reach vulnerable
24 populations, especially in times of
25 emergency.

26 We provide a variety of other
27 specialized services. They are not really
28 germane to the conversation today. Public

1 access point, scheduling vital services, and
2 other special programs that are in response
3 to the local community.

4 So in terms of our infrastructure,
5 we do operate entirely on cloud basis and so
6 we use contact telephony platform, and I'm
7 not going into too much depth, but we have
8 complete scalability. We don't have any
9 hard cap limitations in terms of our port
10 usage or anything else to that effect. We
11 can roughly triple our capacity onsite, and
12 then we can leverage the larger network of
13 211 providers both in the state, national
14 coverage with mutual agreement in place for
15 scaling for coverage, whether it's for local
16 communities, or in our case, it's been mostly
17 used for response to outside communities, as
18 close as neighboring communities like Butte
19 County and fire, and concerns with the
20 Oroville Dam, and as far out as places like
21 Texas and Florida for uses such as Hurricane
22 Harvey recovery or Hurricane Irma response.]

23 So we worked day in and day out
24 with some of our local response
25 organizations, such as County of OES, EMS
26 from local cities, public health systems, as
27 well as working with organizations like Red
28 Cross, Cal Fire -- and, actually, the local

1 Voad is actually housed within our 501C
2 non-profit.

3 So just to kind of cover some of
4 the local examples, as well as national
5 examples, where we have responded to working
6 with our State and National networks, these
7 are cases where Sacramento staff have
8 responded to these disaster systems. Using
9 these web-based systems, we're able to
10 seamlessly integrate for the front-end user
11 to provide disaster services using locally
12 sourced information to make sure they're
13 getting point-in-time information as well as
14 trying to branch them back to the those
15 responding organizations.

16 So in terms of a little bit of
17 background, so we're just one small 211 in a
18 much larger network. So we covered some of
19 the pieces of what that statewide network
20 looks like. Also, we're part of a larger
21 national network, which is roughly 300 211s.

22 So in terms of 211 Sacramento
23 services, last year you're looking at about
24 200,000 connections to CARE 1600 services
25 provided, over 250 languages and dialects,
26 and over 12,000 cases we're providing
27 specialized assistance in terms of
28 appointment scheduling, screening, and

1 applications for public benefits.

2 This is just a little bit of a
3 geographic spread of those provider networks.
4 And as Jason mentioned, there is quite a bit
5 of work being done within the network to
6 establish disaster coverage that will be give
7 both local control for disaster response to
8 some of those currently uncovered counties,
9 as well as the opportunity to bridge the
10 larger networks that are offered through 211
11 California and the National 211 network. So
12 if there should be a disaster response that
13 exceeded the local capacity with the
14 flexibility of these web-based systems, they
15 would be able to leverage that larger
16 infrastructure to respond to those local
17 emergencies.

18 So this is a really quick effort to
19 answer some few key questions that were posed
20 in the packet for this scenario. To be quite
21 honest, rather than reading something that
22 you can easily read off the screen, the
23 bottom line is 211 is an infrastructure
24 support to leverage to make sure that there's
25 connectivity to vital point-in-time
26 information, recovery services information
27 that really falls in line with the social and
28 health services work we do on a

1 day-in-day-out basis. And we're here to
2 offload burden from that 911 system.

3 There are issues that are life and
4 limb. There's also a lot of things that we
5 can help focus on that are not necessarily
6 that life and limb issue to make sure that
7 people are getting the connection to the
8 right service support and information to help
9 alleviate the impact of these threats while
10 keeping that burden off the 911 system so
11 they can focus on the vital life-and-limb
12 scenarios that they are posed with every day.

13 But we are simply an infrastructure
14 support to help bolster information access,
15 especially for vulnerable groups, such as the
16 functional needs groups in our communities to
17 make sure they have information access for
18 disaster preparedness and response.

19 MR. LEE: Thank you, Mr. Kendall,
20 for your remarks. Thank you, everyone, for
21 your remarks.

22 So, before us there are three
23 questions. We have received written initial
24 reply comments on these questions, and they
25 are already in the record. So in the
26 interest of time, we will not repeat the
27 questions -- what has been already said.

28 I do have a question for Mr.

1 Kendall. Do you have any suggestions on
2 improving access -- or your access to
3 information for your own use and for the
4 dissemination to the public.

5 MR. KENDALL: So -- and I'll try and
6 project. Tell me if I have to raise it up
7 here.

8 But in terms of local access to
9 information for response to incidents in our
10 community, I feel like we have a fairly
11 strong grasp on that with our existing
12 relationships with groups such as OES, local
13 city EMS, and so forth. I think, though,
14 when you start to look at scaling in terms of
15 large incidents that are going to be
16 multi-county, multi-jurisdiction incidents, I
17 think that's something where 211 as a network
18 can really do some work to establish those
19 connections and relationships beyond our
20 local communities. Because not everything --
21 let's face it, disasters don't care about
22 county lines or other jurisdictional
23 boundaries.

24 I worked for many years the 211 San
25 Diego. And we did a lot of work with Cal
26 Fire in places where there was significant
27 overlaps of jurisdictions both with our own
28 and some surrounding counties. I think it's

1 just that level of communication relationship
2 that's going beyond our local communities
3 where we honestly have some work to do so you
4 have those points of communication and
5 connection for those other agencies that are
6 covering something larger than those local
7 jurisdictions.

8 MR. LEE: Thank you. One more
9 question.

10 You mentioned MOUs earlier. What is
11 usually contained in these MOUs. Is it just
12 with local OES? Or is there one with Cal
13 OES? And how widespread are they amongst 211
14 providers?

15 MR. KENDALL: So in this space, a lot
16 of times we say, "If you've seen one 211,
17 you've seen one 211." Because there are some
18 very significant variations. Generally
19 speaking, you're going to see those MOUs in
20 place with the local entities. In terms of
21 -- so we have direct MOUs with things like
22 Sacramento County OES, with Sacramento County
23 Public Health, with various local
24 municipalities' EMS systems. And then we
25 also have mutual aid agreements with larger
26 211 California Network, as well as United Way
27 Worldwide.

28 In terms of beyond that, it -- I'm

1 going to be honest and say that it is a
2 little bit spotty. And I think that's where
3 we have to take it beyond that local level.

4 MR. LEE: Thank you.

5 I want to the open it up to other
6 participants. President Picker and Mr.
7 Ghilarducci may have remarks.

8 Yes, is there a question in the back?

9 MS. KASNITZ: Thank you. Melissa
10 Kasnitz with the Center for Accessible
11 Technology, one of the consumer advocates.

12 And the availability of 211 as a way
13 to relieve the burden on 911 has great value,
14 particularly for the consumers. I think in
15 that regard, a big gap is awareness. I think
16 there's a very low level of awareness among
17 the public about the availability of 211 in
18 general and, particularly, about the
19 awareness of emergency services; again, not
20 the life and limb services you mentioned, but
21 the support availability through 211.

22 So to facilitate the ability of 211
23 to relieve the burden on 911, I think that an
24 awareness campaign is vital. Because if
25 people don't know about it, they are
26 obviously not going to use it.

27 And then with regard to both 211 and
28 911, the information that's available during

1 emergencies like Mendocino survey results
2 obviously illustrate that when people don't
3 have access overall, they don't have access
4 to either 911 or 211. And so all the things
5 we were previously discussing, the need for
6 emergency backup power, powering people's
7 homes, the need for system redundancy, we
8 need to make sure that people's overall
9 connectivity to the telecommunications
10 network remains in place obviously are
11 threshold issues for the availability of both
12 911 and 211. Thank you.

13 MS. ECKERSLEY: If there's a Sheriff or
14 other PSEP representative here, would they
15 like to comment on their use of the
16 administrative lines and 911?

17 MR. NOJAN: Please state your name.

18 STATEMENT OF MR. MARTIN

19 MR. MARTIN: Brian Martin, Lake County
20 Sheriff. I'm in a very rural county. Our
21 name did not appear on the map up there.
22 We're one of the counties that is not
23 serviced by 211 at this time. We're in talks
24 for that.

25 We've looked at it for relieving the
26 burden on the 911 lines. Lake County borders
27 Mendocino County. The Mendocino Complex
28 fires, actually, impacted Lake County much

1 greater than they did Mendocino County. I'll
2 be presenting here shortly and will talk a
3 little bit more about that.

4 Our administrative lines and our 911
5 lines got overrun during these fires. They
6 simply can't handle the volume of calls that
7 come in. A lot of the calls are repeat calls
8 for information that we already have. And to
9 have a service available such as 211 where
10 people can call in to get information that we
11 would like to disseminate, other than 911,
12 would be a great value.

13 Unfortunately, some of the
14 challenges we face are the economic
15 challenges. It was said it was a free phone
16 service, however, there's a cost to the local
17 agencies that we're trying -- we're trying to
18 grapple with those costs.

19 MR. LEE: And we definitely look
20 forward to working with Lake County. Lake
21 County has agreed to participant in
22 disaster-only 211. We thank you for your
23 participation. And we look forward to
24 working with you.

25 One last question?

26 MR. NOJAN: Please state your name and
27 affiliation.

28 STATEMENT OF MR. BATONGBACAL

1 MR. BATONGBACAL: Thank you. My name
2 is Eric Batongbacal with AT&T. This is not
3 so much a question, but a suggestion.

4 Aside from easing the burden on the
5 911 system, 211 also has a potential for
6 decreasing the congestion on the network
7 during a disaster if there's some kind of
8 connection capability. So I would encourage
9 the Commission to explore what we can do to
10 help 211 centers gain that functionality.

11 MR. LEE: Thank you, everyone, for your
12 comments. In the interest of time, we thank
13 everyone for participating in this section.
14 I will now hand up this podium to the
15 facilitator for section 4, Mr. Amin Nojan.

16 Mr. Nojan.

17 MR. NOJAN: Okay. Great. Thank you.

18 We will now be moving on to discuss
19 actions taken when a disaster strikes.
20 First, we'll be hearing from Mr. Mallon of
21 Cal OES about the benefits and limitations of
22 deployables.

23 STATEMENT OF MR. MALLON

24 MR. MALLON: Okay. Thank you.

25 Again, I think as you've heard,
26 deployables are a great asset, but they are
27 not the end to meet all needs. We've found
28 that, particularly, in some of the fires like

1 the Sonoma Fire, when the backhaul burnt up
2 and the generators, you know, the batteries
3 began the fail, the commercial sites went
4 down. Fiber is also acceptable to heat in
5 the ground. We found some incidents where it
6 was reported that the fiber was buried in the
7 ground and melted in the conduits.

8 So the other issue with deployables
9 is redundant power. Most cell sites have
10 some battery backup. But we would like to
11 see all the cell sites with a generator
12 backup as well.

13 You know, the commercial industry
14 touts their system can replace -- be replaced
15 with deployables such as colts or cowls, cell
16 on wheels. And while colts can replace the
17 lost cellular site the backhaul remains a
18 significant issue.

19 We did talk about the limitations of
20 microwave, certainly some limitation with
21 fiber. And backhaul via satellite has its
22 limitations, because it significantly reduces
23 the capacity of throughput. You know, even
24 with the suitable backhaul established, there
25 are other limitations on replacement of lost
26 infrastructure.

27 How long does it take to get a
28 deployable onsite? You know, from a public

1 safety perspective, our agreement with
2 FirstNet and AT&T is that a deployable will
3 be on site in seven hours. A lot of stuff
4 can happen in seven hours, particularly if
5 you're a community with a dam ready to break
6 in seven hours -- it's about six hours and
7 59 minutes too late.

8 We see the greatest benefit for the
9 deployables from a command post in evacuation
10 or disaster recovery center use, not so much
11 to service the commercial customers in a
12 normal mode of operation. While service
13 during the recovery period is beneficial, we
14 also need to focus on the data services
15 during the incident. Installation of
16 generators at all sites, as I said, will
17 greatly benefit the reliability of the
18 system, as well as redundant backhaul. And
19 what I mean by redundant backhaul is, let's
20 go two ways with the fiber instead of just
21 one way. If we can go fiber and microwave
22 backhaul, that's even that much better.

23 You know, as I mentioned earlier in
24 the conversation we were talking about the
25 connection of technology, I would like to
26 focus one last moment on the fact that the
27 deployment for deployables is a seven-hour.
28 The from a public safety perspective, and

1 that's my background, I don't want to give up
2 communications and wait for seven hours. If
3 the backhaul has failed, the system fails,
4 today, you know, public safety relies on a
5 redundant and reliable backhaul -- or
6 communication system -- that's their
7 land-mobile radio system. From a public
8 safety perspective, I certainly would not
9 recommend that public safety abandon their
10 land-mobile radio systems for the foreseeable
11 future.

12 MR. NOJAN: Thank you, Mr. Mallon.

13 MR. MALLON: And I believe Sheriff
14 Martin is next up.

15 ALJ RIZZO: I would like to note for
16 the record that we're running a little bit
17 behind on time. So in order to get a full
18 discussion on each topic, we'll deduct
19 15 minutes from the lunch break.

20 MR. MARTIN: I will try to speak
21 quickly to not disturb anyone's lunch break.

22 (Laughter.)

23 (Cross talk.)

24 STATEMENT OF MR. SMITH

25 MR. SMITH: I'm Brian Martin, the
26 Sheriff and Emergency Services Director for
27 the County of Lake.

28 We're a small county that's located

1 about two hours north of the here and nestled
2 in between the I-5 and 101 corridors. We're
3 a population of 65,000 people. We're
4 surrounded by Napa, Colusa, Sonoma, Glenn,
5 and Mendocino Counties. If you haven't been
6 to Lake County, it's a short drive up there.
7 Come visit us. You're welcome, Chamber of
8 Commerce.

9 Over the past four years, we've
10 experienced numerous disasters. We're at
11 seven major wild fires to date over the last
12 four years. Cumulatively, those fires have
13 burned over 640,000 acres in my county and
14 managed to destroy over 3,130 structures.
15 That's 993 square miles. To put that in
16 perspective, Lake County is only about 1200
17 square miles, so there's a little bit left to
18 burn.

19 In addition to that, we've also
20 dealt with a major flooding event in 2016.
21 Clear Lake is the largest natural fresh water
22 lake in California. It overflowed its banks
23 in 2016. It had a great impact on many of
24 the communities surrounding the shoreline.

25 These events illustrated for us the
26 need for a local government to be able to
27 quickly notify extremely large numbers of the
28 population with timely, accurate, and

1 reliable information. During the 2015
2 wildfire season, my agency did not have
3 access IPAWS, WEA, emergency alert systems,
4 weather radios, or the emergency broadcast
5 system.

6 We relied on technology that had
7 been in place for many years. It relied on
8 drawing down subscriber phone numbers from
9 the telephone service providers, and were
10 able to target small areas for mass
11 notification by telephone using 12 phone
12 lines at that time. It's a great system if
13 you had to notify a couple hundred people.
14 When we had to notify thousands and thousands
15 of people, the system was insufficient.

16 Our only other mass notification
17 system at that time was NIXLE. It's a
18 service that relies on people subscribing as
19 to the service, and they are able to receive
20 messages on their cell phone or email. Given
21 the extremely violent and swift movements of
22 the valley fire through mountainous terrain,
23 places where people didn't have much cell
24 service, if any at all, we received numerous
25 reports of people who received no
26 notifications on what turned out to be a very
27 deadly fire.

28 We have started realizing how

1 commonplace it's becoming for people to
2 abandon their traditional phone lines and go
3 with cellular only. People that were in cell
4 -- or in areas that didn't have any cell
5 service or telephone lines weren't able the
6 receive our messages. People who didn't
7 subscribe to our NIXLE didn't receive our
8 messages.

9 The valley fire burned so quickly
10 the phone lines were compromised in the early
11 hours of the fire. The system that we had in
12 place continued to push phone calls through
13 on those lines, but those lines were down for
14 two weeks. When the phone system was
15 restored, over 3,000 phone calls from the
16 initial alert were pushed through. Needless
17 to say, people were less than assumed to
18 received the notice of evacuation two weeks
19 after the fire started.

20 Four people died in the Valley fire,
21 a fifth person remains unaccounted for to
22 this day. It's presumed he perished in the
23 fire.

24 Following the events of 2015, I
25 undertook an effort to bolster and improve
26 our mass notification systems. Over the past
27 three years, we've been able to become IPAWS
28 subscribers. That's given us the ability to

1 push out wireless emergency alerts and
2 broadcasts.

3 We've partnered with our local
4 community radio station for assistance with
5 messaging. Our communities have installed
6 several siren systems. And we've upgraded
7 our subscription-based notification system.

8 Our social media reach is
9 phenomenal. And today we are much more
10 efficient at notifications than we were in
11 2015. Our practice is to utilize every
12 available notification system at our disposal
13 in the event of life-threatening events and
14 disasters.

15 We have had no civilian fatality
16 since the Valley fire, despite having a half
17 a million acres burn in the subsequent three
18 years. This is despite the sulfur fire that
19 was part of the North Bay wildfire complex
20 that started at just before midnight when
21 most people are sleeping. I knew this as a
22 success, but I don't attribute it completely
23 to our robust notification systems. But I do
24 feel confident that our ability to quickly
25 notify our residents during emergencies was
26 instrumental in saving lives.

27 One thing that these alert systems
28 all have in common is this, all of them

1 require power operating. The advantage of
2 having multiple redundant notification
3 systems is that if one system fails, whether
4 it's due to technical issues, power outages,
5 or system failures, another system may still
6 be effective. Keeping our infrastructure up
7 and running safely and reliably is absolutely
8 essential for public safety officials to be
9 able to do their jobs effectively. I'm
10 grateful we live in a state where we're able
11 to provide such services.

12 In predicting what issues lie for us
13 ahead, I would like to raise an issue that
14 has recently come to light with my agency and
15 its use of SMS or text notification. Last
16 year, we entered into an agreement for
17 service for text, email, and mass
18 notifications, which we rely heavily on both
19 during disasters and in routine messaging to
20 our constituents. The system is our work
21 horse for the bulk of our notifications. And
22 it's how we as a public safety agency
23 communicate with our populous. It's also the
24 method of communication that society has come
25 to expect and one which we rely upon for
26 information.

27 Last week, we were notified by our
28 provider that cell service providers have

1 started charging a surcharge to providers
2 such as ours for SMS messages. Our provider
3 informed us that they would need to pass
4 those costs along to us as the surcharges
5 have already outpaced the revenue that
6 generated from our small accounts.

7 They attributed this to the increase
8 of use of SMS messaging by both public and
9 private entities. Consequently, we have
10 curtailed, modified, and, quite frankly,
11 reduced our use of this form of messaging in
12 response to that. I understand the need for
13 private enterprise to turn a profit, and I
14 encourage them to do so, but not at the
15 expense of public safety.

16 Revenue opportunities exist from
17 their users in the private sector. If I had
18 something to ask this body, I would ask them
19 to examine this practice as it relates to
20 public entities. The need for public safety
21 and effective messaging warrants an
22 examination of the feasibility of waiving or
23 drastically reducing such fees for messaging
24 from public safety entities.

25 Thank you, again, for the
26 opportunity to speak in front of this body.
27 And I am happy to take any questions.

28 MR. NOJAN: Thank you, Mr. Martin.

1 (No response.)

2 MR. NOJAN: I can look back in my notes
3 to see which parties those were, or if
4 someone wants to speak.

5 STATEMENT OF MS. KASNITZ

6 MS. KASNITZ: Melissa Kasnitz, Center
7 for Accessible Technology. The consumer
8 organizations did support recognizing these
9 various levels of declarations of emergency,
10 but did recognize a certain concern about
11 creating redundant requirements if emergency
12 declarations weren't issued at multiple
13 different levels; if they were both a local
14 emergency, and a state emergency, or both a
15 state and Federal emergency.

16 And so we certainly would be
17 interested in -- or even a multiple-state
18 emergencies I should say. A fire begins in
19 one county, for example, and then spreads and
20 you get repeated declarations of emergency,
21 we would be interested in exploring ways that
22 the administrative requirements don't become
23 a hurdle to actual service being provided to
24 customers. But we still think that the
25 recognition of the various states of
26 emergency is important and is a good way to
27 trigger help to what we're going to need in
28 whatever disasters do arise.

1 MR. NOJAN: Thank you.

2 Okay. If no one else would like to
3 weigh in, we can move on to Section 5. So in
4 Section 5 we'll be talking about actions
5 taken during a disaster by facilities-based
6 wireline providers.

7 First, we'll be hearing from captain
8 Mark Lenzi of the San Joaquin County
9 Sheriff's Office about computer-aided
10 dispatch and radio communications during a
11 disaster.

12 STATEMENT OF MR. LENZI

13 MR. LENZI: Well, I don't know if it's
14 good morning or good afternoon. I'll be as
15 quick and brief as I can.

16 In the Winter of 2009, the Sheriff's
17 Office we experienced a catastrophic failure
18 of our UPS system. When this first happened,
19 our sergeants in the field had no idea what
20 was going on, because it resulted in a
21 complete loss of our computer-aided dispatch
22 capability, in addition to our ability to
23 take in 911 calls, and we lost all radio
24 communicates. So you could imagine being a
25 deputy in the field and losing every piece of
26 communication that you have. It was pretty
27 unnerving, and did not realize what was going
28 on.

1 And from a supervisor perspective,
2 trying to figure out where my people were at,
3 what are they doing, what calls were they on.
4 At the time, it took us about four to
5 four-and-a-half hours to figure out it was in
6 fact the UPS that caused the problem. But in
7 the interim, we had some sharp people on the
8 ground to figure out how can with get through
9 this when we don't really know what's going
10 on.

11 And to tell you the truth, at that
12 point in time, cell phone communication was
13 the key to this. So we were quickly able to
14 transition over our 911 calls to one of our
15 local other law enforcement agencies through
16 the PSEP, the Stockton Police Department. So
17 they began fielding the calls, and were able
18 to relay the 911 calls that we were getting
19 back over to our comm center on the cell
20 phone and we were able to call the folks in
21 the field.

22 So before all that had actually
23 happened, we had to get in touch with our
24 people in the field. And we were able to do
25 that with department-issued cell phones to
26 figure out where they were at, what they were
27 doing, were they in the middle of an arrest,
28 were they okay.

1 And then, essentially, we did a roll
2 call and come up with a strategy to where we
3 could stage them throughout the county. And
4 then when we got a call, we would send them
5 in multiple -- several deputies would go to
6 one call -- we were only fielding emergency
7 calls. We were hastingly able to put this
8 particular plan together. And it worked out
9 well until we got staff on the scene at the
10 Stockton Police Department to begin fielding
11 the 911 calls and were able to activate our
12 mobile law enforcement center.

13 Now, obviously, there's been a lot
14 of things that have changed since 2009, a lot
15 of redundancies in our systems, a lot of
16 different things with our radio
17 communication, cad system, so on, and so
18 forth. But that's just one prime example of
19 a major catastrophic incident of what we lost
20 communications at the Sheriff's office. I
21 brought Tom Mashado, he was our IT manager at
22 the time. If any questions are needed to be
23 asked and answered from a technical
24 perspective in regards to what happened with
25 us.

26 Thank you.

27 MR. NOJAN: Thank you, Captain Lenzi.

28 So I'll be moving on to a summary of

1 the comments we received, and I'll also be
2 raising a few additional questions. In this
3 section, the ruling requests a comment on
4 whether the CPUC adopts a duration for
5 emergency protection measures implemented by
6 facilities-based wireline providers and
7 non-facilities based resellers.

8 Generally speaking, carriers did not
9 feel there should be a designated time period
10 for protections to be afforded to consumers,
11 whereas consumer groups believe the
12 protection should vary based on the service
13 and circumstances. Respondents also proposed
14 that a variety of methods be employed to
15 notify consumers about the emergency
16 protections available to them.

17 I would like to hear more from
18 respondents about specific difficulties small
19 facilities based wireline providers face in
20 being required to provide emergency
21 protections to consumers.

22 Do we have any representatives from
23 them present?

24 (No response.)

25 MR. NOJAN: Is there anyone who can
26 speak to the challenges small facilities
27 based wireline providers face in providing
28 emergency protections during a disaster?

1 STATEMENT OF MR. HUANG

2 MR. HUANG: David Juang on behalf of
3 the small LECs. I'll just make this very
4 brief. There's a distinction that I would
5 like to draw between the small LECs and other
6 larger carriers in that we are rate of return
7 regulated carriers. A lot of the cost that
8 we incur for disaster relief cannot be just
9 taken from the adjustment of rates. It has
10 to go through the rate case process through
11 the Commission. So we mentioned this in our
12 comments but, again, reiterate this and ask
13 that this is recognized.]

14 Thank you.

15 STATEMENT OF MR. NOJAN

16 MR. NOJAN: Thank you very much.

17 And following up on that, I would to
18 actually ask some of those three network
19 consumer groups, who thought these
20 protections should be afforded to everyone
21 regardless of size, if they had solutions or
22 proposals as to how these difficulties could
23 be managed, some of the financial
24 difficulties that maybe occurred as a result
25 of these provisions on the part of the small
26 facility based wireline providers.

27 STATEMENT OF MS. KASNITZ

28 MS. KASNITZ: Melissa Kasnitz, Center

1 for Accessible Technology. My colleague from
2 TURN may be able to supplement, but we don't
3 have any information available as to the
4 actual costs that are incurred. We would
5 imagine that the costs are proportional to
6 the population being served so that small
7 service territories are less likely to incur
8 the same amount of costs, but we don't
9 actually have any data on that.

10 That said, people who live in
11 sparsely populated areas need service as much
12 or potentially even more because they have
13 fewer options and alternatives than people
14 who live in more densely populated areas. So
15 while we don't have an immediate proposal on
16 how do you address cost issues, the answer
17 can't be, Well, so they just cannot provide
18 services for people who need it.

19 We are certainly willing to grapple
20 with these issues, but we can't support the
21 scenario that some people just don't get
22 service because their provider is too small.

23 STATEMENT OF MS. SALAS

24 MS. SALAS: Ashley Salas from TURN.

25 I would echo what Melissa Kasnitz
26 just said. I think one of the things that we
27 wanted to focus on is that all Californians
28 were provided with relief efforts regardless

1 of who their providers were.

2 So as Melissa highlighted, if you
3 have a residence in an area that's more
4 sparsely populated, they might even have more
5 need to receive those, but we want to make
6 sure all Californians have disaster relief
7 available to them.

8 STATEMENT OF MR. NOJAN

9 MR. NOJAN: Thank you. And I don't
10 think anyone is doubting the necessity of
11 providing these services, but more trying to
12 seek a collaborative solution to providing
13 this protection even for rural California.

14 Would anyone else like to weigh in
15 on that question?

16 (No response.)

17 MR. NOJAN: Thank you very much for
18 your participation. We will now be breaking
19 for lunch. So it's 12:05 now, and we'll be
20 resuming at 1:15. So if you all could please
21 be back here 10 minutes before that so we can
22 resume promptly, we'd appreciate it. Thank
23 you.]

24 (Whereupon, at the hour of 12:03
25 p.m., a recess was taken until 1:15 p.m.)

26 * * * * *

27

28

1 AFTERNOON SESSION - 1:15 P.M.

2 * * * * *

3 ALJ RIZZO: We'll be on the record.

4 We'll now begin Section 6.

5 Mr. Nojan.

6 STATEMENT OF MR. NOJAN

7 MR. NOJAN: We'll now be discussing
8 Section 6, Actions During Disaster by
9 Facilities-Based Wireless Providers. First,
10 we'll hear from Budge Currier about
11 fiber-based infrastructure.

12 STATEMENT OF MR. CURRIER

13 MR. CURRIER: There's been a lot of
14 discussion already about fiber
15 infrastructure. For the record, I'm Budge
16 Currier, with Cal OES, the 911 Branch.

17 Fiber is becoming more and more
18 prevalent because of the need for backhaul.
19 So as these technologies that we use have
20 more and more reliance on increased backhaul,
21 one of the technologies that's used to
22 provide that connection is fiber. And so as
23 technology continues to rely more and more on
24 bandwidth requirements and through-put
25 requirements, fiber is one of the tools that
26 can meet that need. We are also seeing some
27 advances to the use of microwave where it's
28 getting more and more capacity and

1 through-put, but nowhere near the
2 capabilities of fiber.

3 So it's important to consider that a
4 single conduit of fiber could have literally
5 thousands upon thousands of signals from a
6 variety of different vendors. So what we're
7 seeing is that a single piece of fiber that
8 is severed or damaged or destroyed can impact
9 not just one agency or two agencies or two
10 companies or providers, it can be in the 10s,
11 20s, 30s of different providers and companies
12 that are impacted by a single piece of fiber
13 that's severed.

14 The FCC has published a significant
15 number of best practices regarding the use of
16 backhaul and redundant paths and resiliency
17 with regard to fiber infrastructure and the
18 infrastructure that supports facilities.

19 If you're interested in that, CSRIC,
20 which is the Communication Security
21 Reliability and Interoperability Council that
22 reports up to the FCC, there's about 1,000
23 different best practices. A good majority of
24 those are dedicated to some of the best
25 practices around fiber and fiber
26 infrastructure.

27 Obviously, multiple redundant paths
28 are the goal; however, mapping those paths

1 out and ensuring that they truly are not in
2 the same physical piece of conduit at some
3 point is very challenging, especially when
4 you are going to multiple providers.

5 Providers may have their own network
6 map, but the minute that you cross provider
7 one with provider two, finding the mapping
8 solution to show you all the paths of the two
9 companies that you're using is very
10 challenging.

11 Some municipalities have taken the
12 effort to do that. I know, for example,
13 there's a system in the south bay area, where
14 they use fiber infrastructure as their
15 backhaul provider, and they've done that.
16 They've mapped the entire thing to ensure
17 they are not using two physical pieces of
18 conduit at the same time, but that's the
19 exception, not the rule, and it takes a
20 tremendous amount of labor to get to that
21 point. So that single fiber, when it becomes
22 severed, can have an impact on multiple
23 people.

24 The other challenge is that we heard
25 today mentioned that underground fiber tend
26 to be more resilient during much of the
27 disaster we see in California; however, the
28 environmental and zoning requirements to

1 actually trench and dig and put in fiber,
2 that can be quite time-consuming as well.

3 So this lack of fiber path diversity
4 certainly compounds the impact during the
5 outage and we're seeing that, even when
6 providers are going through the effort to
7 engineer two different paths into the same
8 location.

9 At our public safety entry points
10 throughout the State of California, that's
11 what we strive for to make sure we have
12 redundant paths into the centers so that a
13 single backhoe doesn't have the capability of
14 taking out a public safety answering point,
15 but there simply isn't path diversity
16 available, especially in the more rural areas
17 of the state.

18 Overhead fiber is certainly more
19 susceptible to disasters, especially fires,
20 winds, and other events that happen
21 frequently in California and so that's a
22 challenge, and backup connections can be made
23 using microwave, but, again, to the points
24 that were discussed earlier, microwave does
25 have a capacity limitation to it. It's an
26 excellent path redundancy solution for
27 limited through-put, but getting multiple
28 gigs of the data across the microwave

1 connection can be challenging, and
2 availability of microwave channels and
3 licensing of those channels, and then
4 installation of the equipment on the towers
5 is another limitation.

6 So one of the things that we think
7 would be a good path forward here is to find
8 a way to truly ensure there are diverse
9 paths, and where diverse paths don't exist to
10 facilitate building out fiber infrastructure
11 to diverse pathways, and that's it.

12 MR. NOJAN: Thank you, Mr. Carrier.

13 Next, we'll be hearing from
14 Ms. Caroline Thomas-Jacobs with Cal OES about
15 the importance of the alert and warning
16 systems.

17 STATEMENT OF MS. THOMAS-JACOBS

18 MS. THOMAS-JACOBS: Good afternoon.
19 Caroline Thomas-Jacobs, for the record, Chief
20 of Response Headquarters Operations here at
21 Cal OES.

22 So as Budge mentioned, obviously,
23 that technology is very dependent on the
24 infrastructure. We've seen this slide
25 several times now; so I'm going to just jump
26 into the impact on the alert warning. So as
27 I've mentioned in my earlier comments, our
28 tools in the toolbox for us to be able to

1 communicate with the public keep expanding,
2 and we can communicate with users where
3 they're at and get the message out across
4 multiple pathways, but what it's also doing
5 is there's a convergence of a single point of
6 failure on lots of those pathways that all
7 come back to fiber, cellular, and
8 internet-based infrastructure.

9 So there's recent legislation that
10 has passed, SB 833, for those of you that are
11 familiar with it. That's the legislation
12 that is requiring Cal OES to create those
13 statewide guidelines that I referenced
14 earlier. So we're working with our
15 communities and through our SEMS system to
16 collect all of the best practices from the
17 local on how to best implement a local alert
18 warning program and coordinate that at the
19 regional and at the state level.

20 Once we get those guidelines
21 published, we're going to be socializing
22 those guidelines over the course of the next
23 six months in the middle of 2019 so we can
24 make sure that all communities are clear on
25 what are best practices and then support them
26 in building up their programs to be able to
27 meet those best practices.

28 We, also at Cal OES, have alerting

1 capabilities. So we're right now the last
2 resort, if you will, if a community can't
3 reach out to their public, but, ultimately,
4 our alerting capability to the end user, the
5 person who is receiving that communication,
6 still is dependent on the same
7 infrastructure. So if a local community,
8 their cellular towers go down and they can't
9 send something, we can send it for them, but
10 it's still not going to get to those people
11 that are in their communities because we are
12 using the same pathways.

13 So the key message that I want to be
14 able to communicate today, is that the
15 dependency on a community ultimately is a
16 single point of failure back to the
17 infrastructure, and we need to be able to
18 create multiple pathways and redundancies on
19 that across the infrastructure so that we can
20 communicate with our constituents across the
21 State of California.

22 As people become more dependent on
23 technology and embed technology into how they
24 run their lives, they're becoming dependent
25 on that technology, and so when that
26 technology goes down, they no longer
27 necessarily have the same level of capability
28 and resiliency to take protective actions -

1 let's say - as when they were used to not
2 having that communication. So as their
3 dependency on technology goes up, their
4 ability to be resilient against that
5 technology is inversely impacted on that.

6 So I just request that everyone
7 think deeply about that, how we can build up
8 the infrastructure to ensure we can
9 communicate with our public as well as our
10 public safety responders using the
11 communication system.

12 STATEMENT OF MR. CURRIER

13 MR. CURRIER: One other thing I wanted
14 to mention on this slide, and the reason why
15 I'm back up here again is one of the roles I
16 have for the state is I'm the Statewide
17 Interoperability Coordinator or the SWIC; so
18 some of you may have heard that term before.

19 So the third bullet on that chart
20 identifies the Statewide Communication
21 Interoperability Plan. That's the plan that
22 we have in place in the State of California
23 that primarily governs interoperability use
24 of land mobile radio channels statewide.
25 We've also included in that document goals
26 and objectives regarding alerts and warnings.

27 So we, at the state level, are tying
28 together this alert and warning capability so

1 that we can make sure that this information
2 is pushed all the way down to the local level
3 so that the tools and resources that are
4 available are messaged and there's training
5 and technology and coordination that goes on
6 to make sure that this information is out
7 there.

8 We are also taking steps in the 911
9 network to provide as much resiliency and
10 redundancy as we can there.

11 Again, to Caroline's point, though,
12 the critical place where this all comes back
13 together is the device that each of us holds
14 in our hand. It's got to be able to work in
15 order to make that 911 call or receive that
16 alert and warning, and as the reliance on
17 this technology increases, you know, we're
18 doing our part to make sure that the networks
19 that the state manages and oversees and puts
20 in place are reliable, are redundant, and
21 there's a need to make sure, similarly, that
22 the commercial infrastructure that's
23 supporting that has the same level of
24 reliability and redundancy.

25 And this goes back to what Director
26 Ghilarducci said, when he said that the
27 public safety grid needs to be able to
28 survive during a disaster to meet the needs

1 of those that are using the tools.

2 MR. NOJAN: Thank you, Mr. Currier.

3 We'll now be hearing from the Chief
4 Tony Bowden from the Santa Clara County Fire
5 Department about the operational impacts.

6 STATEMENT OF MR. BOWDEN

7 MR. BOWDEN: Good afternoon. My name
8 is Tony Bowden. I'm Santa Clara County Fire
9 Chief. I have two goals for today: One is
10 to stay awake after lunch - always a
11 struggle - and to provide you with just a
12 little bit of an overview of operational
13 impacts on the public safety side of the
14 house when we're talking about wireless
15 communications.

16 So, as I said, I'm Fire Chief for
17 Santa Clara County. I'm also the Operational
18 Area Fire and Rescue Coordinator, which means
19 I coordinate all fire and rescue resources
20 both in and out of the county regardless of
21 department, and Santa Clara Fire is also
22 unique in the sense that I oversee the Office
23 of Emergency Management for the county, and I
24 also oversee the county communications
25 center, which is sheriff, medical, fire,
26 dispatch somewhere in the range of a
27 half-a-million-plus calls a year. So it's a
28 little bit of a unique perspective.

1 So as most of you know, I found
2 myself in a little bit of a situation two
3 months back with one of our units in a
4 reduction speed to their connectivity during
5 the Mendocino Complex. Many of you probably
6 don't know, I was two weeks in as fire chief
7 and not what you want to have happen in your
8 second week as fire chief.

9 But it really brought forth a point
10 as to what are the operational impacts. From
11 a public safety perspective, I know what that
12 is, but do our private partners know what
13 that is or what that means?

14 Of course, in public safety we train
15 our personnel to operate in the absence of
16 technology, but technology makes us much more
17 efficient and effective, especially in
18 California. California is amplified.

19 I believe it still holds true today,
20 but California, during any given year, moves
21 more resources from the fire rescue side of
22 the house up and down the State of California
23 than the rest of the states combined. That's
24 a tremendous amount of resources that
25 requires a tremendous amount of coordination.

26 Some of the tools that we use and
27 rely on includes routing, mapping, resource
28 tracking, situational awareness tools, mobile

1 CAD, just to name a few. So what does data
2 capacity limitations look like on the
3 operational side of the house?

4 Well, unit tracking and
5 accountability is directly linked to
6 firefighter safety. If we don't know where
7 our units are, we cannot effectively provide
8 for their safety. Routing and mobile CAD is
9 another issue that is definitely for my
10 public safety partners on the law side of the
11 house, we're talking mobile CAD is critical
12 to their safety. The ability to run a plate;
13 their ability to look up information on
14 suspects is absolutely critical to their
15 safety. Loss in connectivity for our law
16 enforcement partners is a law enforcement
17 officer's safety issue.

18 EMS, the emergency medical side,
19 most people don't realize that most of our
20 paramedic apparatus today all carry devices
21 that are transferring critical information on
22 the patients to the hospital that they're
23 going to be transported to, including
24 critical PCR information that we gather at
25 the scene.

26 Without that connectivity, that does
27 not occur and it slows patient treatment time
28 when they arrive at the hospital; so there is

1 a direct impact. It also slows critical
2 reporting of information, which we could have
3 land mobile radios, of course, but what this
4 does is it slows -- when you take away the
5 technology side of it, it actually slows our
6 reporting back on current fire conditions,
7 evacuation information, updated incident
8 action plans, which turn around every
9 operational period.

10 So it does have an impact on the
11 operational side of the house, for sure, and
12 especially when you talk about the deployment
13 of resources that may be a direct result of
14 the tracking and accountability information
15 that we received.

16 Situational awareness tools: What
17 does that mean? It means different things
18 for different people, but for us, there's
19 specific tools that are unavailable to us.
20 ROSS is our national system that we use to
21 order resources. The inability to connect to
22 ROSS means that any incidence has now a
23 decreased ability to order additional
24 resources regardless of discipline.

25 So moving forward, why it's
26 important to me that we examine past events,
27 I believe we need to learn from those events
28 and really focus on the future.

1 For my public safety partners in the
2 room, they'll probably all smile when I say
3 this because they all know Gordon Graham, but
4 Gordon Graham had something that he said for
5 years and I believe it's true today: If it's
6 predictable; it's preventable.

7 One of the things we don't talk
8 about a lot on the fire side of the house is
9 more lives have been saved through the
10 preventative and mitigation efforts before
11 the emergency occurs. This is one of those
12 times. I believe public safety is doing a
13 part by creating the 911 centers, which we're
14 in Santa Clara County using 911 trunk lines,
15 but we need to make sure those calls get in.

16 Lastly, I want to emphasize that
17 public safety is a critical resource for the
18 telecommunications industry, and I think
19 that's a point that may have been lost. I've
20 heard the word "partnership" several times
21 today. We are absolutely your partners and
22 we're there to be a resource, but the
23 communication has to be inclusive of the
24 public safety partners to ensure we're moving
25 in the correct path forward.

26 The last thing I would say, I just
27 really want to emphasize and I want to
28 encourage better collaboration in the future.

1 It was great to really be here today at OES
2 and I thank Chief Zagaris for having me here
3 today and inviting me here today because I
4 think this is the beginning of the
5 collaboration that really needs to occur to
6 address this issue because public safety
7 isn't for just the folks wearing a badge.
8 Public safety is inclusive of family members,
9 friends, neighbors. So, thank you.]

10 STATEMENT OF MR. NOJAN

11 MR. NOJAN: Thank you, Chief Bowden.

12 In this section -- so I'll now be
13 moving on to a summary of comments and
14 request for additional comments. In this
15 section, the ALJ ruling requested comment on
16 whether the CPUC should adopt a duration for
17 emergency protection measures implemented for
18 facility-based wireless providers. I would
19 like to hear more from respondents on how the
20 duration of protection measures can be linked
21 to the impact of a particular disaster.

22 So there were comments that
23 articulated that disasters vary in nature in
24 duration in impact on consumers. So the
25 question is how can we link the impact of a
26 disaster to, for example, a particular -- or,
27 rather, what metrics could be used to
28 approximate the impact of the disaster on

1 consumers? And what metrics can accurately
2 illustrate the extent of recovery
3 post-disaster?

4 If there's a way we can link the
5 duration protection measures to the impact of
6 a particular disaster, then we can more
7 accurately determine the duration of these
8 protection measures.

9 (No response.)

10 MR. NOJAN: I can repeat the question
11 if it wasn't clear. But what I'm looking for
12 is, are there any suggestion on how we can
13 measure the impact on consumers and also how
14 we can measure the recovery to better get a
15 sense of how long these emergency protection
16 measures should be in effect.

17 And I look forward to hearing from
18 industry, from consumer groups, from...

19 STATEMENT OF MR. DISCHER

20 MR. DISCHER: David Discher, AT&T.
21 Simply, the answer is you can't. Every
22 network, every provider is going to have a
23 different downtime. So you can't have one
24 number.

25 So our suggestion is to the extent
26 some consumer assistance is put in place,
27 that it goes until you provide service back
28 to your customers.

1 MR. NOJAN: Thank you.

2 My question wasn't so much I'm
3 looking for X-number of months or weeks or
4 years. I'm looking for what we measure of
5 the impact or what measure of recovery could
6 be used to estimate where we stand
7 post-disaster. In other words, what data can
8 we look at to show us how long these things
9 should be in effect for? Therefore, the
10 final number would obviously vary based on
11 the data that's being examined.

12 STATEMENT OF MS. KASNITZ

13 MS. KASNITZ: Melissa Kasnitz, Center
14 from Accessible Technology. I'll speak from
15 a consumer perspective. But I think it is
16 very telling, the unwillingness of the
17 respondents and carries to respond or
18 participate on these issues of how to serve
19 their actual customers who are experiencing
20 emergencies.

21 Certainly, protections that only
22 apply until service is restored is
23 fundamentally inadequate when the very
24 premise of this proceeding is to help in the
25 recovery to customers who are impacted by a
26 disaster. So the economic impact of a
27 community that has suffered from wildfires,
28 as we all know, lasts much longer than the

1 actual duration of utility service being
2 disrupted, and, certainly, the financial
3 relief measures that are under discussion,
4 like availability of payment plans for people
5 who might lose income, need to go beyond
6 restoration of service.

7 You also have issues for customers
8 whose homes are damaged or destroyed where
9 service may be up in a community, but that
10 individual wouldn't have access because their
11 house burned down. So I think that a
12 statement that restoration of service to a
13 community should be an endpoint is very
14 disingenuous.

15 I don't, I'm afraid, have models or
16 metrics for how to evaluate disparity. But I
17 very much find it disturbing that industry is
18 not contributing with recommendations.

19 MR. SINGH: Yes. Hi, Arvin Singh with
20 Verizon. Maybe I wasn't clean in
21 understanding the question early on. But
22 from a provider perspective, we have metrics
23 that we've started to share and collaborate
24 with OES and the likes. And things around
25 network availability, percentage of sites
26 that are down, restoration time for the sites
27 that are down, and the work that has been
28 done to augment the network coverage and

1 capacity.

2 So any time you're running an
3 sophisticated nationwide network, there are
4 lots of elements that are measured that can
5 go down. It's one where brainstorming is
6 required to assess what kind of metrics
7 should go to first responders and OES and
8 what can be passed on to the consumer that
9 the consumer can benefit from.

10 MR. NOJAN: Thank you.

11 And do you have suggestions on what
12 metrics could be used to approximate the
13 length or duration of emergency protection
14 measures? Do you have any ideas of what
15 metrics you would like to look at to
16 determine that duration?

17 MR. SING: Yeah. So we have metrics
18 that we've shared with critical public safety
19 entities, OES is a large enterprise,
20 customers around service level objectives,
21 per se, network availability, call
22 performance, data performance, text
23 performance, those kinds of things. And the
24 thresholds vary. So depending on the type of
25 event and the magnitude of impact, the SLA to
26 turn that around would be also a variable.

27 That's why it's not easy for the
28 provider to put the finger on the pulse on

1 every single issue in such a manner. But we
2 can certainly provide the metrics and
3 potential range of availability and service
4 levels around that.

5 MR. NOJAN: Thank you.

6 MR. ZAGARIS: Kim Zagaris, Cal OES Fire
7 and Rescue Chief, State of California. At
8 the end of the day, our customers are your
9 customers. If they can't get out to us, they
10 can't get to anybody else. And if we can't
11 provide that service, your credibility and
12 ours is going to be zero at the end of the
13 day. I'll just make that as clear as I can.

14 If I can't take a 911 call, if I
15 can't hear from the cellular, and I can't do
16 it on 911, at the end of the day, we're not
17 going survive, period. We already have a
18 credibility issue as the disasters continue
19 to roll in.

20 Matrix, I'll tell you about matrix.
21 We've you've got to have better matrix,
22 you've got to develop them, we've got to work
23 with you. We've got to be more transparent,
24 we've got to share things in more real time.
25 At the end of the day, we want to protect
26 people's lives and property. That's what
27 it's going to take.

28 The survivability of the system and

1 how we operate will dictate where we're going
2 to be. At the end of the day, some of you
3 are operating on profits. Unfortunately, on
4 our end, we don't operate on profit. We
5 expect a system that's going to operate each
6 and every day.

7 I don't -- it doesn't really matter
8 whether we're on hardline, cellular, or VoIP.
9 If we don't sell systems and develop systems
10 so the public is aware and we're also aware
11 in different communities and different
12 participates of the country, it will be much
13 harder for us to provide the service that's
14 out there.

15 I watched in the last number of
16 years, I listened to the public, I listened
17 to our own folks. We need to bring up the
18 system. We need to be more transparent in
19 how our systems work and what it's going to
20 take us to get to the next level. I can't
21 emphasize that enough.

22 It doesn't matter if you're from a
23 large metropolitan area, and you're hit by an
24 event. Or you're from a very rural, very
25 small county that's stretched very thin
26 trying to provide that service. At the end
27 of the day, the public has an expectation.

28 They call 911 on your system, they

1 expect a service and they want it now. They
2 don't want automation. They want to be able
3 to reach somebody, they want to be able to
4 talk to somebody, they want to know that they
5 are being taken care of.

6 Tell you this, same thing happens to
7 our people out there each of and every day.
8 And the frustration level goes up when we
9 can't get an answer or on one end when we say
10 we have the most sophisticated system in the
11 world. It doesn't mean jack if it's is not
12 working or we can't have reliability and
13 backup to that system.

14 MR. NOJAN: Thank you.

15 STATEMENT OF ALJ RIZZO

16 ALJ RIZZO: I would like to ask the
17 respondents about an issue that's happening
18 with the energy corporations and the
19 crossover impacts to the service providers in
20 this room. The energy corporations are
21 currently de-energizing the grid when weather
22 conditions require it. So they will shut the
23 electricity down.

24 So my question to the parties are
25 what impact does de-energization have on your
26 service to provide service to your customers?
27 What are you ding to plan for this? And when
28 it happens, what education, if any, are you

1 doing right now to tell customers that
2 electricity is impacting your ability to
3 provide service to them.

4 So I would like to hear first from
5 the industry. Is this a problem for you?

6 MR. ROMAN: This is Jesus Roman again
7 from Verizon. So the entire de-energization
8 is shut off as a preventative measure by
9 energy companies is something that concerns
10 us. It concerns us deeply. Because if all
11 of our systems are shut down in a particular
12 area without notice, then that's a problem.

13 Now, the way that the Commission has
14 structured this is that the energy companies
15 are supposed to provide notice. We are
16 currently in discussions with, for example,
17 PG&E, about the latest fires and the notices
18 that we got that, unfortunately, were not the
19 type of notices that we think would get us to
20 a place where we can actually go very
21 efficiently to put out more generators to
22 particular facilities or ensure that our
23 communications don't go down.

24 So we've had some experiences where
25 we've got an email that provided a street
26 address number, but not the actual address of
27 where there was going to be a preventative
28 shutdown. We've got, you know -- for one

1 fire, I think we got a hundred e-mails from
2 PG&E. And I'm not picking on PG&E, it's just
3 an example. So I think that, ultimately, you
4 know, we -- so Verizon prides itself also on
5 the fact that we have battery backup to all
6 of our macro towers along with our
7 generators.

8 So we're able to actually deal with
9 a preventative shutoff. But we need to have
10 proper notice. And I'm not sure, frankly,
11 that that's there.

12 ALJ RIZZO: I would like to hear from
13 AT&T on the issue if you have any comment to
14 make.

15 MR. DISCHER: David Discher, AT&T. I
16 know it's a huge issue, but I'm not handling
17 that issue.

18 ALJ RIZZO: Is someone from your
19 organization here to comment on it?

20 MR. DISCHER: No.

21 ALJ RIZZO: No comment?

22 I believe there's another hand in
23 room.

24 MR. CANDELARIA: Good afternoon, Jerome
25 Candelaria from the California cable and
26 telecommunications association, CCTA and the
27 cable industry is participating in a
28 relatively new OIR concerning the

1 implementation of SB901 where deenergization
2 is a point. But I will say over the course
3 of several years, our industry has worked --
4 attempted to work with electric providers on
5 what was presented as the need for
6 information.

7 Our facilities will accommodate
8 outages. We have power ready. What we need,
9 though, is direction from these proactive
10 de-energization events where they know where
11 energy will go off, we need to know where
12 that's going to occur with as much advanced
13 notice as possible.

14 We understand that that's a call
15 that can be made at the time. But we need a
16 process where we need to know with as much
17 advanced warning and, also, with a higher
18 level of precision as to where the
19 de-energization would occur, such as circuit
20 level.

21 In the past, we received county
22 level de-energization notices. And when
23 you've staged your backup power generators to
24 send out in the field, a general county isn't
25 necessarily as helpful as knowing what
26 specific circuits are going down. Our --
27 CCTA's members have met with each IOU and
28 will continue to work bilaterally. But we

1 also look forward to Commission direction to
2 the IOUs to encouraged more precision and
3 more timely notice.

4 MR. LEE: Just a random question.

5 How long does the battery backup
6 last?

7 MR. CANDELARIA: We have different
8 facilities. We have head-in facilities where
9 there's diesel backup, so it becomes a matter
10 of fuelling and getting fuel to those areas,
11 as well as out in the field where it's a
12 matter of being able to continue to provide
13 fuel to generators that are recharging the
14 batteries out there. So it's a fuel issue.

15 MS. SALAS: Ashley Salas for TURN. I
16 just wanted to echo Melissa Kasnitz's concern
17 that she raised earlier about the providers'
18 unwillingness to participate. As parties to
19 this proceeding, we've all had these
20 questions to comment on before these
21 workshops, to think about, to form questions,
22 so the fact that AT&T comes here without a
23 comment prepared or with someone willing to
24 speak on this issue is very concerning to
25 TURN and to consumers.

26 MR. DISCHER: Your Honor, this wasn't
27 on the agenda. So that's why we didn't have
28 anyone here to speak on this.

1 ALJ RIZZO: Noted for the record.

2 Does anyone else have any comment to
3 make to the question on de-energization?

4 (No response.)

5 ALJ RIZZO: My last question for this
6 is disaster response. The energy
7 corporations are being required to submit
8 plans that stipulate their preparedness to
9 respond to disasters. So in this, I would
10 like to ask industry, what internal plans do
11 you have in place that prioritizes your
12 response to disasters?

13 I'm opening that up.

14 (No response.)

15 ALJ RIZZO: Where are your first
16 priorities? How do you manage the risk when
17 it's happening?

18 MR. DISCHER: David Discher with AT&T.
19 Our first priority is to work with
20 Cal OES. I mean, we have, through this
21 gentleman right here, we are a part of this
22 organization. And he has an office right
23 here. And we are part of this organization
24 and work with Cal OES to meet their needs
25 first.

26 So if they have an emergency center
27 that they set up, and there isn't any
28 cellular service there, that's our first

1 priority. We have an incredibly robust
2 nationwide disaster recovery plans to deal
3 with outages and wireline and wireless. I
4 don't know how to really answer your --

5 ALJ RIZZO: If you could just
6 extrapolate a little bit further on those
7 plans, that would be helpful for the record.
8 And it doesn't need to be granular, it can be
9 high-level. The protocol in place you first
10 stated with the engagement with Cal OES.

11 MR. DISCHER: We've got network people
12 on the network side that coordinate with Cal
13 OES about the status of outages in our
14 network so they know and making sure that the
15 first responders have the services that they
16 need. Then we start working on restoring our
17 service, to the extent we can even get into
18 areas after or during the fire.

19 I don't quite -- so it's a very
20 detailed process.

21 ALJ RIZZO: Thank you, Mr. Discher.

22 Can you state your name?

23 MR. ROMAN: Yeah. This is Jesus Roman,
24 again, from Verizon. And we do appreciate
25 that question. And, you know, since there
26 has been some negative comments about to the
27 industry members, I just want to ask all the
28 members from Verizon to stand up that are

1 here. We've got seven people that we've
2 brought.

3 We think this issue is very, very
4 important. This is critical. We work with
5 Cal OES all the time. But I'm going to have
6 Curtis Mentz here to talk about our crisis
7 response system, because I think it's
8 important to understand that we actually run
9 to a crisis.

10 ALJ RIZZO: Thank you.

11 MR. MENTZ: Thank you. Curtis Mentz,
12 Verizon Wireless. I manage our Verizon
13 crisis response team. It is a national
14 program activated by calling one number.

15 And what we do is we provide
16 emergency wireless communication to public
17 safety agencies, American Red Cross,
18 emergency management agencies in the field.
19 We are a 24/7, 365 response team. We also
20 receive those incoming calls from our Verizon
21 security assistance team.

22 We have two in national operation
23 centers, one in Texas, one in New Jersey that
24 receives those incoming calls. And then if
25 there's a disaster anywhere in the United
26 States, we then have teams all across the
27 United States to deliver emergency wireless
28 communication equipment.

1 We do have a long history in
2 supporting Cal Fire, U.S. Forrest Service,
3 and many, many different agencies all
4 throughout California. My area of
5 responsibility is Washington, Oregon,
6 California, Nevada, Alaska, Hawaii. So on a
7 regular basis, we have responded to dozens
8 upon dozens of fires, emergency situations
9 all through the state, and continue to do so.

10 MR. DISCHER: Your Honor, Barn Wynn
11 could provide a lot more detail about our
12 interactions with Cal OES.

13 ALJ RIZZO: Thank you, Mr. Discher.
14 That was from Mr. Discher of AT&T.

15 Please state your name for the
16 record and reiterate that you're from AT&T
17 please.

18 MS. WYNN: Sure. Barb Wynn, AT&T
19 External Affairs. I directly work together
20 with CUEA, my peers at Verizon, we work
21 together. Echo everything that Verizon says
22 that we do. We're always there, we work
23 directly with them.

24 In addition to what we do during the
25 disasters, when they start, we're already
26 mobilizing. Before the power safety shutoff,
27 we're moving generators, we're getting
28 resources in the area, we see the winds

1 coming, we know. We monitor these things.
2 We move our assets around the states as
3 needed so they're available quicker in
4 realtime, so we don't have the incidents that
5 can occur when those super catastrophic
6 events like the Napa.

7 ALJ RIZZO: Can I ask you a follow-up
8 on de-energization, which I understand you do
9 not have someone here to speak directly to
10 it. But as you move those resources around,
11 are you finding notice requirements from the
12 energy corporations to be as cumbersome as
13 the other parties have noted? If you don't
14 have an opinion, you can also say that too.

15 MS. WYNN: My opinion.

16 ALJ RIZZO: Or on behalf of your
17 company?

18 MS. WYNN: I can say they are working
19 changing it to make it better. This was the
20 first go around. I'm not trying to defend
21 them. But I'm not going to criticize them
22 for something they're trying to do.

23 Was it perfect? No. Nobody wants
24 to lose power, Safeway doesn't want to lose
25 power; right? PG&E is getting beat up by
26 everybody. We all work together
27 collaboratively.

28 That is why we have CUEA, why we are

1 imbedded in the OEC and the SOC and we have
2 representation there 24/7, 365 as needed
3 during these incidents. And I don't know,
4 the last two years ago, or last year, it went
5 how many days straight? 41 days straight
6 that we had a member in there working with
7 the utilities to make sure we were imbedded,
8 there when they needed us.

9 The only other thing I can say is
10 when data is collected and relayed, we need
11 to make sure it's interpreted correctly so
12 that they understand and the people reading
13 the data is not misunderstanding what the
14 data is.

15 I'm reporting for situational
16 awareness to make sure the leadership and
17 public safety in the field knows what is
18 down, when it's down, and when it will be
19 back up. Other reports they may see may talk
20 about technologies that are down, which is
21 not the same as situational awareness.
22 Numbers can construed differently.

23 So I really want to make sure if we
24 want to improve communications, we need to
25 know what's being communicated. And we need
26 to be able to examine it, look at it, and
27 talk to each other about it. And if there's
28 questions, we're here to answer them.

1 ALJ RIZZO: Thank you.

2 MS. KASNITZ: Melissa Kasnitz, Center
3 for Accessible Technology. I'm hearing what
4 sounds like defense of what has been done in
5 previous emergencies. But I think that the
6 purpose of what we're trying to do this in
7 this proceeding is to figure out ways to do
8 better.

9 So I would be very interested if the
10 providers would be willing to talk about
11 lessons learned and the example that I'm most
12 familiar with, even though it's not the most
13 recent or de-energization, are the wine
14 country fires, where the consumers presented
15 to the Commission a lot of information to
16 people who experienced severe problems and
17 life-threatening problems with accessing
18 communications during the fast-moving fires
19 that put life and property at risk.

20 And I think there are a lot of
21 people who would say that what was done in
22 that situation didn't work very well for
23 them. So if providers are willing, and the
24 Commission is willing, I would very much be
25 interested in hearing how the providers are
26 improving. That might be out of school for
27 this section, but thank you.

28 ALJ RIZZO: Okay. Let's go off the

1 record really quick.

2 (Off the record.)

3 ALJ RIZZO: We'll be back on the
4 record.

5 So I'm going to modify the agenda
6 just slightly. We're already a little bit
7 into the next section, which is Lifeline,
8 which we want to cover. However, Ms. Kasnitz
9 brought up a point that I think is worthwhile
10 for us to explore a little bit more for the
11 next five to ten minutes on lessons learned.

12 So, at this point, I would like to
13 present the question to industry and consumer
14 groups here, as well as Cal OES and members
15 from our public safety across the state, what
16 are some lessons learned that we can look at
17 to create a pathway forward that better
18 serves the people of California?

19 I open that up to whoever wants to
20 speak first. And to refine the question,
21 what were some barriers? What were some
22 impediments? What were some challenges?
23 What areas can we improve upon collectively
24 to better serve the public?

25 MR. CIGLER: Jim Cigler for Verizon
26 Wireless. That's actually a really good
27 question. We did have some lessons learned
28 from the Napa fires. A couple big ones, as I

1 look forward here, I see Mr. Mitch Medigovich
2 -- I probably pronounced your name wrong, I
3 apologize.

4 But I was imbedded with CUEA at the
5 state operation center, literally, day one
6 with those fires. One of the quick lessons
7 we learned, because we had a very deep
8 discussions, Mitch, and myself, and others,
9 where we're -- it's a huge disaster out
10 there, I've got three shifts of people trying
11 to work, but I'm getting booted out by a
12 curfew every evening. Because there were
13 some issues with vandals and looting and what
14 have you.

15 And I said, "Listen, if we're going
16 as to make headway, you got to let me get in
17 there." He went and discussed it with law,
18 came back a couple hours later, our wish was
19 granted. We learned how to better brand our
20 vehicles. We got letters, made ourselves
21 appear more official so we could get through
22 roadblocks easier. That was something we
23 learned that was very, very useful.

24 Another thing that we did learn was
25 we were really good at running to the crisis,
26 but we weren't really good about raising our
27 hands and saying, "Hey, look what we're
28 doing." So there was some communications on

1 our part that we learned we needed to
2 communicate better through leadership and
3 political personnel as well, to let them know
4 we were there. Because what they were
5 sometimes hearing was there was nothing.
6 They weren't hearing anything, so they
7 assumes we weren't there. But we were
8 completely there.

9 I think those were probably the two
10 biggest ones I can think of. Thank you.

11 MR. MEDIGOVICH: Your Honor, I think --
12 it's nice to hear the comments on it and
13 think about what we're going to do to move
14 forward. The ability to communicate as an
15 industry is a challenge that I would like to
16 see resolved.

17 And it's disparate reports that come
18 in from all the individual providers. You
19 are all tracking your individual piece. Here
20 at Cal OES, it then turns into a stubby
21 pencil exercise trying to figure out who's up
22 and who's down and what's working and what's
23 not working. So it doesn't allow for timely
24 decision making and our ability put that
25 information together in a common operating
26 picture to share with our first responder
27 community, because they can't make a decision
28 either.

1 So we'll end up with some raw
2 numbers. Sometimes they're right; sometimes
3 they're wrong. And then we're trying to
4 extrapolate and figure out what this really
5 means. There's no geofile where it takes
6 Verizon, AT&T, T-Mobile, Sprint, cable, and
7 there's nothing that I can share with the
8 Sheriff or the fire chief on the ground so
9 they can make a decision.

10 So we're having to say okay we've
11 lost this many in this area, it's going to be
12 approximately this time, and it's a little
13 vague. And it's already at a -- a
14 challenging environment already. Because
15 it's very dynamic. It's never static, things
16 are always coming up and down for the
17 provider community.

18 And I think it's probably the one
19 area that we could really do better when
20 we're in a crisis event from it. Obviously,
21 I know our partners don't want to be down.
22 But our ability to have good information
23 there makes a direct impact on alert and
24 warning, our first responders, and everybody
25 else who's coming in; whether it's a truck
26 full of supplies that a road closed on and we
27 couldn't tell them it's closed because they
28 don't have a land mobile radio with no

1 cellular connection. These are just truckers
2 bringing in cots, food to a shelter, or
3 something more important where we're bringing
4 in and moving other significant services into
5 an area that they are not in as well. So
6 just for the record.]

7 STATEMENT OF MS. THOMAS-JACOBS

8 MS. THOMAS-JACOBS: Caroline
9 Thomas-Jacobs, Chief of Headquarters
10 Operations. To speak to your question, what
11 would be helpful for us? Several people in
12 the room, I'm working directly with them in
13 the State Operations Center and definitely
14 appreciate their partnership.

15 Speed of information is really
16 critical because as Deputy Director
17 Medigovich mentioned, we're constantly in
18 that room trying to understand the situation
19 and then communicate that down to all the
20 partners which is a very wide variety of
21 folks and make sure we are all on the same
22 page with what's happening.

23 As Director Ghilarducci mentioned at
24 the very beginning of this, everything in
25 emergency management comes down to
26 communication. It's a flow of information
27 and understanding what's happening in the
28 field and understanding how we're helping to

1 solve the issues that are in the field. So
2 speed of information is really critical,
3 making sure everyone is on the same page, and
4 also common terminology is really important
5 so that we understand, when the information
6 is given, we all actually understand what
7 that information says.

8 So, for example, when we get into
9 the State Operations Center a communication
10 that says: "We have six cell towers that are
11 operational."

12 Well, is that operational because
13 they've got power to them and they're fully
14 operational or they on generator power?

15 The specifics really matter because
16 that helps us understand what additional
17 services it could impacting and how we can
18 provide support to those services while that
19 outage is still happening or potentially
20 could happen. So common terminology and
21 speed of information are two areas.

22 STATEMENT OF MR. ZAGARIS

23 MR. ZAGARIS: Kim Zagaris, Cal OES Fire
24 and Rescue. Besides having some common
25 language, we need some common platforms to
26 operate, to just share our infrastructure,
27 and we need to try to get past the
28 proprietary issues.

1 At the end of the day, I can tell
2 you a lot of the folks I work with in the
3 room, we require three basic things to
4 operate: Communication, coordination and
5 collaboration.

6 The fourth most important ingredient
7 is our relationships. Some of the folks in
8 the room might spend hours on the phone all
9 year long during emergencies either assisting
10 us or us assisting them trying to protect the
11 infrastructure that's out there.

12 Again, we try to move back and forth
13 across the lines to make this come together,
14 but at the end of the day putting together
15 some common operating pictures that we can
16 share that information at all levels of
17 government.

18 I'll be real honest with you, it
19 takes it from the chief's end here at the
20 local level, goes up into the county
21 operational level, the regents, working with
22 our state, federal, private partners, working
23 with the various private organizations, the
24 utilities. It takes a lot to get to that
25 point.

26 I think the more we can work on
27 trying to use our relationships to build that
28 common operating picture is the key to

1 success long term, and I mean that
2 wholeheartedly.

3 I work in a world in which we deal
4 with vendors, and vendors like to have
5 proprietary systems. Works great for them.
6 It doesn't work for me one iota. I don't
7 need one-offs. I need systems and programs
8 we can build on together in the room.

9 At the end of the day, one thing I
10 hate is getting a report and have to read
11 through it. We're moving more to dashboards.
12 When I pull out my smart device, whether it
13 be my phone, ipad or smart tablet, whatever I
14 may have, I can share it.

15 Something visual that we can see
16 very quickly. Something that tells us, that
17 will give us in realtime that there's a
18 problem in a particular area, and we can,
19 again, use that to cut down the amount of
20 notifications that we have to run either by
21 phone, by texting, by email or some other
22 means.

23 STATEMENT OF MR. CURRIER

24 MR. CURRIER: My name is Budge Carrier
25 with Cal OES, and in a disaster, I'm the one
26 that's coordinating Emergency Function 2. So
27 I've worked with most of the representatives
28 here in this room during a disaster. So I

1 want to help make sure we understand the
2 bigger picture of why this is important.

3 When we set up an evacuation center
4 or a disaster recovery center or we are
5 determining the ingress and egress routes
6 from a disaster, knowing the status of the
7 communication in that area is critical
8 because if I know there's a fairgrounds here
9 on this road where the cellular
10 infrastructure is damaged, but three miles
11 down the road the cellular infrastructure is
12 intact, we will choose the other one.

13 If we don't have that type of
14 information in realtime, we can't make those
15 decisions. So then the ripple-down effect of
16 that is, I establish a disaster recovery
17 center at a fairgrounds with no com, and now
18 you're having to bring in portable cellular
19 to provide communications there, which we all
20 know doesn't have the capacity to truly
21 support everybody that would be in that area.

22 It creates an undue burden on you
23 and also us. So that's why this realtime
24 data is important. And it needs to be
25 accurate.

26 We're finding that we're getting
27 reports of -- especially during this recent
28 power outage, we were told a certain number

1 of sites were available/not available, and
2 then we hear from county and locals a
3 different story.

4 So trying to validate all that and
5 what really happened really hampers our
6 ability to coordinate emergency. So
7 situational awareness is really the tool
8 that's trying to drive all, and if we have
9 that information available in realtime at our
10 fingertips, we can properly coordinate the
11 response effort, and that's our goal. That's
12 what we're focused on.

13 The information we receive, we're
14 not using it for any other purpose other than
15 the situational awareness to make a good
16 operational decisions on how to protect lives
17 and property.

18 STATEMENT OF MR. ZAGARIS

19 MR. ZAGARIS: I just want to go back to
20 the lessons learned. We went through several
21 seasons of some pretty terrible weather and
22 some pretty terrible fire conditions. I
23 think last year over 350 cell sites were lost
24 last year in California. What did we learn?
25 Did we put them back exactly the same way?
26 Did we harden the infrastructure there?

27 There's opportunity here to learn
28 from the failure points that occurred; that's

1 what I think from a public safety side: What
2 was the failure point? How did it occur?
3 How can I harden that site? Because I'm
4 going to put that infrastructure back to
5 prevent this in the future. We know this.
6 And we know that fire will occur there again.

7 When you talk about lessons learned,
8 we need to take that information because if
9 we fail to learn, fail to take the
10 opportunity to harden that infrastructure, it
11 doesn't matter how great your response
12 efforts are. You failed to prevent it from
13 happening in the first place when you could.

14 STATEMENT OF MR. SINGH

15 MR. SINGH: Arvin Singh, Verizon.

16 Just to make a couple quick comments
17 on this, your Honor. I think based on
18 everything we're hearing today, it's super
19 critical about the communications future that
20 the one thing that's learned is the
21 communications infrastructure is far more
22 robust today than ever before in the history
23 of this nation; right.

24 There's absolutely opportunities.
25 Those opportunities, I think, require
26 collaboration across industries, across the
27 public sector. It requires plumbing that's
28 pre-put in place to serve the needs of first

1 responders.

2 To the points that were brought up,
3 the different mediums of communications and
4 what the status to be able to provide best
5 situational awareness and actions and
6 directives, you almost need those seven or
7 eight different communications mediums and
8 existing AGI plumbings and such in place.
9 OES has some kind of dashboard that they are
10 able to render insights from that to the
11 other first responder agencies that may be
12 running to that crisis.

13 So we're absolutely in favor of
14 collaborating and coming up with that. I
15 think it will require the mindshare of many
16 beyond the technology service providers.
17 That is the tremendous opportunity I see
18 based on some the discussions we're hearing
19 today.

20 STATEMENT OF MR. BOLAND

21 MR. BOLAND: Don Boland, Executive
22 Director of CUEA. I need to put a little
23 handle around what's going on here.
24 Understand that we are a subsection operating
25 a utility operations center as a trade center
26 within the state operations center. That is
27 so that we can bring the interdependencies of
28 all of the utilities impacted.

1 Communications is not stand-alone
2 unto itself. It relies on the power grid.
3 It relies on water for switches. We, when
4 we're activated - for 13 years I've been at
5 every activation of the state - bring
6 together the SMPs from each of the utility
7 disciplines. We bring power. We bring
8 telecommunications. We bring gas, pipelines,
9 water, wastewater.

10 As we've addressed the PSPS, Public
11 Safety Power Shutoff, this is not new. It's
12 new to northern California. This has been in
13 place since the Cedar Fire in 2003 in San
14 Diego. We had a lot of lessons learned
15 there. We're going to learn a lot of lessons
16 here.

17 We are the unit that stands up from
18 the private sector and from some government
19 sectors like DWR that brings all the players
20 into one room to address those issues. As
21 Mitch said very clearly, we need a common
22 dashboard with realtime information to allow
23 the public safety people to make their
24 respective decisions they need to make.

25 Chief Zagaris and I work
26 hand-in-hand just about every day during the
27 disaster as we do with the chief of law and
28 the Caltrans and Cal Fire. This is a unified

1 concept of operation, not just a
2 telecommunication. They are a major
3 component. They are the backbone in which we
4 work, but they also are dependent on every
5 other utility out there. They cannot
6 function by themselves, and as such we
7 coordinate that between our companies, gas
8 companies, and the legacy providers, the
9 wireless providers, and the backhaul and
10 cable providers.

11 So there is a point of presence here
12 for input, communication, output, and dual
13 flow, through CUEA.

14 STATEMENT OF MR. BATONGBACAL

15 MR. BATONGBACAL: Eric Batongbacal from
16 AT&T. I think what we'd like to impart here
17 is a process improvement, a way for us to
18 move forward, but we must rely on the fact
19 that much of our emergency protocol response
20 today, they exist because of collaboration
21 and the recognition of each system with each
22 other. That's why we're embedded with Cal
23 OES when a disaster occurs. I think that's
24 where we need to build on.

25 I really feel bad when a certain
26 party would question our commitment there
27 because, certainly, that's not the case. We
28 are very committed to this process. It has

1 no place for us to be questioning each
2 other's commitment.

3 I think we have the best public
4 safety when we all agree. Let's try to
5 understand each other's needs. Let's
6 collaborate. It's very explicit in the
7 California Emergency Plan. We should embrace
8 that.

9 ALJ RIZZO: At this point, we will be
10 wrapping up because we need to move on, but I
11 would like offer this last round for final
12 comments on the topic.

13 Consumer Advocates in the room, we
14 haven't heard from you yet. Would you like
15 to make comments? I realize there's TURN and
16 ORA, and anyone else who would like to
17 comment you're welcome to.

18 Thank you, Ms. Kasnitz.

19 STATEMENT OF MS. KASNITZ

20 MS. KASNTIZ: Melissa Kasnitz, again,
21 Center for Accessible Technology.

22 The need within the responder
23 community, and the utility community for
24 equipment and learning lessons is great. The
25 need for pushing those out so that people who
26 are impacted by the community is also great.

27 I understand that, perhaps, the
28 first discussion needs to make more progress

1 before you get to the second conversation,
2 but at the end of day, when people need to
3 know whether or not there's a wildfire
4 bearing down on them and they should be
5 gathering their belongings and their pets and
6 seeking safety, that's what all of this is
7 about.

8 So this proceeding is also about how
9 to help those people afterwards, but at the
10 moment we're talking about making sure that
11 everything is being done to secure their
12 safety, their property, their ability to
13 respond when they are directly under threat.

14 And so the part of the conversation
15 that can't be left out while all
16 collaboration is happening within the
17 industry players and the public safety
18 players is making sure that the actual people
19 facing disaster or an emergency are able to
20 pick up the phone and get help or are able to
21 receive the information that will allow them
22 to take steps to stay safe.

23 And to the extent that people want
24 to be self-congratulatory or that they want
25 to point to other players in the system for
26 not doing their job, sure. I understand that
27 impulse.

28 But we really do have a common

1 purpose, and it really is about making sure
2 the members of the public know what to do and
3 how to do it when there's threat bearing
4 down.

5 STATEMENT OF MS. HOOK

6 MS. HOOK: Charlyn Hook, just a quick
7 comment on behalf of the Public Advocates
8 Office. The Public Advocates Office supports
9 the uniform and most technology neutral
10 application of the customer protection
11 measures and other measures adopted in this
12 proceeding.

13 We appreciate the voluntary efforts
14 and the collaborative efforts that some of
15 the communications providers have taken to
16 date, but the Commission cannot always track
17 those efforts, and we cannot enforce
18 voluntary efforts.

19 So one thing we've really noticed
20 and learned today is that the vast majority
21 of customers have adopted cell phones as
22 their primary phone and rely on these to work
23 during emergencies.

24 As Cal OES said, 98 percent all 911
25 calls come from cell phones, and the fire
26 department, first responders and other
27 agencies have all made clear that the cell
28 phones are a critical piece of the emergency

1 response communications network.

2 So the Public Advocates Office is
3 still learning about the emergency response
4 and we'll put more specific comments and
5 recommendations in our comments, but we think
6 this workshop has been very helpful, and we
7 look forward to participating more in this
8 proceeding.

9 ALJ RIZZO: Thank you.

10 We'll conclude that section and now
11 move on to Section 7.

12 Mr. Nojan.

13 MR. NOJAN: Thank you, everyone, for
14 your comments. And as Judge Rizzo said,
15 we'll now be moving on to Section 7 and
16 discussing Actions During a Disaster by
17 California's Lifeline Service Providers.

18 Ms. Steiner will be leading this
19 discussion.

20 STATEMENT OF MS. STEINER

21 MS. STEINER: This next section
22 includes California Lifeline providers.
23 Decision 18-08-004, included three
24 protections for California Lifeline
25 participants: The delay of the renewal
26 process; the extension of the enrollment; and
27 outreach in consumer education by the
28 Consumer Affairs Branch and the

1 California Lifeline Administrator.

2 These protections were originally
3 included in resolutions in fall of 2017, but
4 they were contingent on the FCC granting our
5 request for a temporary waiver of the federal
6 Lifeline rules. CPUC submitted two requests
7 for waivers in the fall 2017, but did not
8 receive a response until February of 2018, at
9 which point the four months of protections
10 had already expired for many of the affected
11 consumers. For this reason, CPUC did not
12 implement the renewal protection or the
13 nonusage protections; however, we did
14 implement a renewal over the phone by our
15 third party administrator and outbound calls
16 to notify participants of this option.

17 So the questions in the Ruling 3.2.4
18 were addressed in nonfacility-based wireless
19 Lifeline provider; however, since the
20 protections in this decision applied to all
21 California Lifeline providers, we'd like to
22 receive comments on these questions from the
23 other providers.

24 So the workshop today is an
25 opportunity for the wireline and
26 facilities-based wireless providers who did
27 not respond in written comments to provide
28 their input.

1 First question: Should any of the
2 California Lifeline consumer protections be
3 contingent on the federal program? So,
4 generally, the state of these protections
5 should not on contingent on the federal
6 program granting a waiver as long as the
7 California Lifeline fund makes up the loss of
8 the federal subsidy. Although there were
9 several commenters that expressed a
10 preference for relying on federal and state
11 programs if possible. Additionally, AT&T
12 suggested that the CPUC seek a permanent
13 waiver from the FCC.

14 I would now like to hear from the
15 parties that did not comment on this issue,
16 specifically the wireline- and
17 facilities-based California Lifeline
18 providers.

19 MR. DISCHER: David Discher, AT&T.

20 We did comment. We think it's very
21 important for the Commission to pursue this
22 permanent Lifeline waiver. Just making it
23 clear that the California fund will make up
24 for any lost federal support is not enough.

25 And that's because if you have a
26 situation where you don't have a waiver from
27 the FCC so that the FCC Lifeline renewal is
28 extended, then you have a potential situation

1 where a customer's renewal for the California
2 Lifeline program is extended, but not for the
3 federal program, and all sudden now even if
4 you've made up for the lost support for that
5 time period, you may have two time periods
6 for renewal going forward and so our solution
7 is to get that permanent permission from the
8 FCC to delay both the federal and the state
9 renewal process so you continue to have one
10 renewal date going forward.

11 STATEMENT OF MR. DiNUNZIO

12 MR. DiNUNZIO: This is Mark DiNunzio
13 with Cox Communications. We are Lifeline,
14 wireline provider here in California, and so
15 I just wanted to echo one comment with
16 respect to the comment on the FCC in granting
17 a permanent waiver, and that is, I think what
18 we've seen historically in the past is that
19 this Commission has requested waivers and
20 they've just not been timely or in some
21 situations, they may not have granted the
22 requested relief that's been requested.

23 So I think it's important that that
24 that is an option that we can look at, but in
25 terms of going forward, we really need a
26 detailed plan on how we're going to address
27 this and perhaps specific rules that can be
28 adopted by the Commission probably in the

1 Lifeline docket. That makes more sense.

2 I also think this question sort of
3 ties into the second question. I didn't want
4 to jump ahead. But there is a key aspect
5 with respect to a loss of that federal
6 subsidy if you are not in compliance with
7 that FCC renewal process.

8 And so that's really important that
9 if carriers are providing that discount to
10 consumers, that if the State Fund can
11 compensate carriers for the loss of any
12 federal support that they may achieve, that
13 is critical for us as a provider.

14 STATEMENT OF MS. JACOBSON

15 MS. JACOBSON: Good afternoon. My name
16 is Kristin Jacobson and I'm representing
17 Virgin Mobile in response to this particular
18 question.

19 I would like to echo David Discher's
20 comments. Virgin Mobile's first preference
21 is an alignment between the two programs,
22 really for the reasons that were already
23 articulated. It brings in complexity that is
24 likely to lead to challenges that the carrier
25 would face with being able to report
26 correctly to both agencies.

27 If you have different sets of
28 criteria, and there is no waiver in place for

1 the FCC to provide the uniform guidelines for
2 what the carrier should do both with their
3 federal Lifeline and the California Lifeline
4 customers during that impacted period so the
5 number one choice of preference would be a
6 permanent waiver. That way the Commission
7 wouldn't be in a position like it is now to
8 go to the FCC to ask for temporary waivers
9 because it's shown that the FCC doesn't
10 necessarily act with a level of expediency
11 that we would need to be able to implement
12 this and help the customers who are impacted.

13 So the alternative is the option of
14 having the CPUC make up for the federal
15 Lifeline subsidy. That would Virgin Mobile's
16 second preference because it does address one
17 piece of puzzle, which is the subsidy piece,
18 but, again, it doesn't address reporting
19 requirements and the inconsistencies in the
20 timing of determining when customers enter
21 and leave the Lifeline program. It also
22 doesn't address what to do for the renewal
23 issue. So that's definitely a second choice
24 that leads to more complexity to work
25 through. Thank you.

26 STATEMENT OF MS. SALAS

27 MS. SALAS: Ashley Salas for TURN.

28 We did respond to this in comments,

1 but I just wanted to echo what we're hearing
2 today, and I think ideally for the consumers,
3 you know, if we can get a permanent waiver
4 from the FCC to align both programs that
5 would be ideal, but I think what we're
6 hearing and what we've seen historically,
7 that's probably not going to happen.

8 Even if we were to do the resolution
9 to get a waiver on a temporary basis each
10 time, as everyone said today, that's not
11 going to be timely either. So, I think,
12 regardless we have to have a backup plan, and
13 that backup plan should be that the
14 California Fund make up the loss of the
15 federal funds temporarily and consumer groups
16 are happy to work with the Lifeline providers
17 to figure out some of those difficult
18 administrative issues, like how do you work
19 on the renewal dates, or how do you do
20 compliance with some of the other rules in
21 the state and federal programs.

22 That said, this issue about Lifeline
23 disaster relief is in this docket for a
24 reason. That is one of the relief efforts
25 that would kind of fall into disaster and it
26 would fit better to stay this proceeding than
27 in the Lifeline proceeding that is dealing
28 with a lot of other issues that are separate

1 and apart from disaster relief.

2 STATEMENT OF MS. COOK

3 MS. COOK: Maheen Cook with the
4 National Lifeline Association. We also
5 submitted comments on the record on this
6 issue.

7 With regard to the FCC waivers, when
8 California did submit its waiver request, it
9 was 12 months in duration, and I think that
10 timeline was one that the FCC was not
11 ultimately comfortable with. So the idea of
12 a permanent waiver, I'm not very sure that
13 the FCC would even grant something like that.
14 That's not to say that it shouldn't be
15 pursued, but that is an issue that may raise
16 some concern at the FCC.

17 The other issue was when California
18 filed for the waiver it requested the
19 identification of consumers by county, and
20 then when the FCC ultimately did grant the
21 waiver late in the process at a point where
22 it was no longer useful, they identified
23 consumers by census track. So there was also
24 an inconsistency there on how the process was
25 to ultimately bear out had it been more
26 timely.

27 In our comments, we suggested the
28 identification of consumers by zip code or,

1 alternatively, that the third party
2 administrator could identify and relay to
3 Lifeline service providers who are the
4 affected consumers.

5 I think the key here, kind of the
6 overarching theme, is clarity because for our
7 membership and other carriers that we've had
8 these discussions with, it was unknown what
9 was required for compliance.

10 The CPUC, obviously, cannot waive
11 the federal rules and carriers have to comply
12 with the recertification, annual renewal and
13 nonusage rules. So the first preference is
14 to seek a waiver and NaLA and other
15 individual carriers that I've spoken to are
16 happy to also file in support of the CPUC's
17 waiver request, but in the event that either
18 the FCC waiver is pending or at the time if
19 it's ultimately not even granted, California
20 should make clear that the Commission will
21 cover the cost of the loss of federal subsidy
22 in that duration.]

23 STATEMENT OF MS. STEINER

24 MS. STEINER: Thank you for your
25 comments. We're going to move on to question
26 two. So there are two parts to question two.

27 The first question is asking the
28 impact of implementing the protection FCC

1 waiver. We're going to delay that question
2 and combine it with question four. There's a
3 significant overlap in the comments from
4 parties on the response to this question and
5 operational issues.

6 So the remaining question in two is
7 what should the process be to implement these
8 protections? And the comments were
9 consistent in posing a resolution. So if
10 we're not using a resolution, what would be
11 the process? And what triggers do we need to
12 have to begin implement?

13 MS. SALAS: Ashley Salas for TURN.

14 I think what we want to see is
15 triggers here that would be the same triggers
16 that would apply across the board so there is
17 some clarity and providers know when they
18 need to act, when they need to provide these
19 reliefs. So the two triggers that were
20 provided in the decision is that there was a
21 declaration of emergency by the Governor,
22 and, two, that service was impacted -- the
23 consumers's service was impacted.

24 So if that's still the same case
25 here, you know, the rules can be applied and
26 triggered in the same way for Lifeline rules
27 and protections for those consumers. If
28 consumers are affected by the disaster, and

1 that disaster is declared a state of
2 emergency by the Governor, then the rules
3 should go in effect.

4 MS. STEINER: Now we'll move on to
5 question three if there's no further
6 comments.

7 (No response.)

8 MS. STEINER: So question three asks
9 the appropriate length of time for the
10 Lifeline consumer protections and whether or
11 not it should match up with the protections
12 for CARE customers. The comments did not
13 generally support aligning the Lifeline
14 protections with those for CARE. And the
15 duration, there was not consensus on the
16 appropriate length of time.

17 So our question is what should the
18 duration of the California Lifeline
19 protections be and why? And should it vary
20 for the different types of protections?

21 MS. SALAS: Ashley Salas for TURN.

22 To the second question first,
23 whether it should vary. I think, yes, it
24 should vary depending on the protections. I
25 think that was TURN's position for a lot of
26 disaster relief protections.

27 And then the first question was --
28 oh, align with CARE. I think we agree with

1 most of the parties who filed comments that
2 it might just become administratively
3 burdensome to try to align the program
4 between CARE and Lifeline. And so to address
5 those separately, especially since they might
6 be addressing different consumer bases, then
7 I think that might be appropriate.

8 And I think the interim decision and
9 the resolution adopted four months toling of
10 the renewal and non-usage rules. And we're
11 happy to discuss if the providers want to
12 consider other time frame.

13 MS. STEINER: So as a follow-up
14 question, in a comment join consumers
15 suggested six months. Do you have -- could
16 you explain further why you wanted to extend
17 it beyond the four?

18 MS. SALAS: So I think we came to six
19 months on a couple different reasons, just
20 keeping in mind that some consumers might be
21 affected in different ways. To extend that
22 time from four months a little longer would
23 be helpful. But to the point earlier,
24 12 months seems -- like, if we were going to
25 go for permanent or temporary waiver for FCC,
26 FCC might not support that if we're even
27 considering that. But six months seems like
28 a good round number, as wells as if we do get

1 a temporary waiver from SCC, they were able
2 to activate in about three and a half months.
3 So maybe we have a few months left to go
4 after that.

5 MR. DISCHER: David Discher, AT&T. I
6 think that the -- I don't think you can come
7 up with one number. I think -- to AT&T, it's
8 really important to try and pursue this
9 waiver from the SCC. Because the
10 complications that happen with TPA, treat
11 certain customers differently and then
12 reporting back to us differently is just a
13 host of problems.

14 And if there's a way to interact
15 with the FCC to find out how they would view
16 an appropriate duration so that a permanent
17 solution could be reached, I think that's the
18 way to go. If they won't interact with you,
19 that's another question. But if they will
20 and say three months, and we'll give you this
21 blanket waiver, we are so much better off
22 with that situation than the current
23 situation of having the TPA and doing all
24 these imaginations.

25 MS. JACOBSON: This is Kristin Jacobson
26 again on behalf of Virgin Mobile. I just
27 want to extend upon what David Discher is
28 talking about.

1 I, again, agree and reiterate that
2 seeking a permanent waiver is I think the
3 cleanest and most clear way to approach this,
4 not only for the carriers to be able to
5 implement but to be able to communicate with
6 their customers about what the program will
7 entail. And if you seek a permanent waiver
8 for a shorter duration, which may make it
9 more palatable for the FCC, you could also
10 build in a process for extending that under
11 certain circumstances. So you could foresee
12 that there may be certain types of natural
13 disasters that may need to be for an extended
14 period and, again, build in a process so that
15 you aren't having to file for another waiver.
16 Rather, it will be a designated abbreviated
17 process to provide an extension.

18 MS. COOK: Maheen Cook. We do also
19 have the recent examples with Puerto Rico,
20 Florida, and the aftermath of Hurricane
21 Harvey, where the FCC actually did move much
22 more expeditiously in granting waivers. So I
23 do think that with a process in place, the
24 clarity of a process in place, and being able
25 to move quickly and seek extensions of
26 waivers that, you know, the FCC has shown
27 that they are able to do that.

28 I think it just needs to be

1 something that's clearly communicated to
2 service providers within the State, but also
3 the FCC with what the request is actually
4 seeking and mirroring, again, the recent
5 waivers that the FCC did grant with regard to
6 disaster relief in the Caribbean and South
7 Eastern states, in the aftermath of recent
8 hurricanes, could provide a good example.

9 MS. STEINER: So those who are
10 responding, could you also please answer what
11 the time frame would be absent a waiver. We
12 are considering both scenarios here.

13 MR. McTARNAHAN: Hi, Jim McTarnaghan,
14 Perkins Coie.

15 Just echoing Maheen's comments. And
16 just, if the Commission is not aware, Florida
17 filed for a waiver this week related to
18 hurricane Michael, which would be interesting
19 to see how quickly the FCC acts on that. And
20 it may be something that California could
21 piggy-back or model upon. Let's just presume
22 that Florida gets more favorable treatment of
23 the FCC than California, and see if we can
24 build upon the success that Florida might
25 have for the waiver.

26 MS. STEINER: One follow-up question.

27 Cox suggested a specific time frame
28 of 60 days, which is quite different than

1 what we also heard. Could the representative
2 for Cox explain the justification for that
3 number?

4 MR. DINUNZIO: Sure. Mark Dinunzio,
5 again, for Cox communications. So when we
6 were looking at filing for these comments, we
7 were debating on what we felt would be a
8 sufficient time. There is -- with respect to
9 the renewal notice, the Lifeline
10 administrator sends out those renewal notices
11 approximately three months prior to a renewal
12 date. So we felt providing at least another
13 two months was sufficient time for
14 subscribers without there being a lot of
15 disruption and cost to the California
16 Lifeline program, so we thought that was a
17 good mix and good balance of time for an
18 extension.

19 MS. STEINER: Okay. So we'll move on
20 to question four.

21 So question four asks about what the
22 operational challenges are to implement these
23 consumer protections. And then combining it
24 with question two, what the impacts would be
25 of implementing them absent a waiver.

26 So parties in comments noted various
27 operational issues, many regarding the
28 complexity of having to classes of consumers,

1 reestablishing federal eligibility for the
2 participants who have been de-enrolled from
3 the federal program, as well as what the
4 consumer messaging would be. So I would like
5 to know first if the wireline providers who
6 did not comment have any additional
7 operational concerns they would like to note
8 and, also, if anyone has proposals for how to
9 resolve any of those issues and what the
10 process would look like to reestablish
11 federal eligibility for these consumers
12 absent a waiver.

13 MS. COOK: Maheen Cook from NaLA again.
14 We did, in our comments, propose the option
15 of treating a benefit transfer as a
16 re-enrollment so that if a consumer transfers
17 his or her Lifeline benefit to another
18 carrier and provides qualifying
19 documentation, again, that that should
20 actually -- could reset that consumer's
21 anniversary date by a year so they don't
22 retain the original anniversary date benefit
23 transfer as a re-enrollment, assuming they
24 have provided their qualifying documentation
25 again. So that would help alleviate some of
26 the concerns regarding various anniversary
27 dates if they have just essentially
28 reenrolled and reset an anniversary date. So

1 that is an option to consider.

2 MS. STEINER: A follow-up question.

3 Our current transfer process does
4 not actually require the customer to submit
5 proof of eligibility. In this scenario, how
6 do you differentiate between these customers
7 that do need provide proof of eligibility to
8 transfer and those that do not.

9 MS. COOK: It would just come down to
10 the consumer actually providing the
11 qualifying documents. And many of our
12 members actually do take in the qualifying
13 documentation again at the time of the
14 benefit transfer for the simple reason of
15 qualifying the enrollee. Even if they are
16 transferring a benefit, they may not be
17 eligible to transfer the benefit.

18 They may no longer qualify for the
19 program. And in that instance, oftentimes
20 it's best practice, the carriers will review
21 the qualifying documentation again at the
22 time of the benefit transfer. So in the
23 event that that does occur, that could be
24 treated as a resetting of the anniversary
25 date -- renewal anniversary date.

26 MS. KASNITZ: Melissa Kasnitz, Center
27 for Accessible Technology. I'll just comment
28 that while I think it's outside the scope of

1 this proceeding, it's very problematic if
2 carriers are demanding renewal documentation
3 for customers who the program says are
4 allowed to self-certify their ongoing
5 eligibility. So that's something to take up
6 to in the other docket.

7 For here, to the extent that the
8 California fund ends up picking up support
9 for customers if there is no federal waiver
10 available, consumers do want to work to come
11 up with ways to encourage as soon as possible
12 customers to reenroll in federal programs so
13 that the California-only fund isn't depleted
14 more than is necessary.

15 That said, we would be concerned
16 about any threat to de-enroll customers in
17 the California-only program if they failed to
18 reenroll in federal support. So it's going
19 to be a balancing act for how to encourage
20 customers to regain federal eligibility as
21 soon as possible without putting them under
22 threat for the services that they do manage
23 to successfully retain.

24 MS. STEINER: So along those lines, as
25 we try to get them back on the program, for
26 the renewals, we would -- at the end of the
27 protection period they would generally be
28 sent a renewal form. Our current form is

1 self-certification, therefore would not
2 requalify them for the federal program. So
3 what would this process look like?

4 Would we send them a new form to
5 require proof of eligibility? And then to
6 Ms. Kasnitz's point, if they sent the form
7 back without the proof of eligibility, just
8 the renewal form, what would happen to their
9 status as a California Lifeline customer?

10 MS. KASNITZ: Melissa Kasnitz.

11 Again, there obviously would need to
12 be customer education involved and there
13 might be different information or renewal
14 forms that would be sent to someone who is
15 California-only that says you can
16 self-certify to reenroll in California, we
17 want to encourage you to also apply for
18 federal support, it's better for you, for the
19 state, whatever the message would have to be
20 developed.

21 But if a customer were not currently
22 enrolled in both, then the message could be
23 one of encouragement to have them pursue the
24 enrollment in the federal program.

25 MS. STEINER: And the situation where
26 the California program was making up for the
27 loss of federal funding, what do we then do
28 with the participants? How long do we

1 continue to make up the federal funding if
2 they don't choose to reenroll in the federal
3 program.

4 MR. DISCHER: David Discher, AT&T. I
5 think once you go down that road, you have to
6 keep subsidizing that customer.

7 MS. KASNITZ: Melissa Kasnitz again.

8 I would have to go back and check my
9 comments, but I think we recommended that
10 there be a review in either one year or two
11 years of the extent to which the California
12 fund was being asked to pay more in scenarios
13 that we're hypothesizing here. So it's a
14 very important question because California
15 support costs all California customers paying
16 in. But I think we're hoping to collect some
17 data on how much those costs actually were,
18 and that would allow policy makers to make
19 more informed decisions.

20 MS. COOK: Maheen Cook from NaLA.

21 Part of this also gets back to
22 previous discussions about duration of
23 providing the benefits of the disaster
24 relief. And I think some of that has to be
25 on an ad hoc basis depending on the
26 underlying disaster.

27 In this instance talking about
28 Lifeline, 70 percent of the Lifeline

1 consumers are served by wireless resellers.
2 And wireless resellers obviously do not own
3 their own their own facilities. They would
4 have to work with the underlying carrier who
5 if the system is offline, to get back online,
6 and that's the infrastructure-related
7 question.

8 But then you have the
9 consumer-related question of, you know, are
10 they still impacted? Maybe they have had to
11 move to a different area because their house
12 burnt down and maybe they are outside of a
13 service area or still in a service area
14 that's impacted.

15 So, again, my ultimate point here is
16 that it may have to be on an ad hoc basis.
17 And perhaps the option would be to open up
18 rulemaking when a disaster occurs to identify
19 impacted consumers and determine the duration
20 and reassess, perhaps at a 3- or 4-month mark
21 to see if furtherer extension of the disaster
22 relief may be required.

23 MS. SALAS: Ashley Salas for TURN. I
24 will just add if the FCC continues with its
25 current schedule right now, it is scheduling
26 to no longer provide support for voice
27 services for Lifeline programs. And that's
28 several years into the future, but they are

1 starting to reduce their funds for their
2 support in the next couple years. So
3 although the question is a timely one now,
4 and important one, it might be moot going
5 forward several years from now.

6 MS. JACOBSON: This is Kristin Jacobson
7 for Virgin Mobile. I apologize, this was an
8 earlier question, but a topic that I meant to
9 bring up. The two triggers for the relief
10 that was established in the resolutions are,
11 one, a Governor-issued declaration state of
12 emergency. And the second is impact to
13 networks.

14 Virgin Mobile suggests that we have
15 some greater discussion about what that
16 really means. Is it one cell site that is
17 impacted? Is it five sites that are
18 impacted? Because any impact could be one
19 site that was impacted for an hour duration.
20 And giving an extreme, obviously, but I think
21 maybe some greater discussion is warranted to
22 talk about really what these impacts are so
23 that the relief that's being provided is
24 appropriate for the type of impact to
25 customer service.

26 ALJ RIZZO: Right. And that question,
27 as you noted, was presented earlier in the
28 day. We don't have time now to revisit that

1 topic. Obviously, you want to tailer relief
2 to the appropriateness of the disaster.
3 There will be further opportunity for parties
4 to private more comment and detail on the
5 topic, but we won't be getting on it again
6 today.

7 Ms. Steiner?

8 MS. STEINER: So we've discuss the
9 process for getting consumers back on the
10 program if there were -- for those that had
11 delayed renewal. So what would the process
12 look like for those that under the federal
13 program were disconnected for non-usage, but
14 under the California program remained on the
15 program due to these protections.

16 MS. KASNITZ: I'm talking a lot, I
17 apologize. But Melissa Kasnitz, Center for
18 Accessible Technology. I don't know that
19 there would be reason on the California side
20 to distinguish why a customer loses access to
21 the federal program and ends up a
22 California-only customer. I think any
23 customer that becomes California-only during
24 the course of the availability of disaster
25 relief or, frankly, customers who are
26 California-only in general as developments
27 occur in the Lifeline program, should be
28 encouraged if they can establish eligibility

1 for the Federal program to do so, because it
2 benefits California in general for customers
3 to be enrolled in both programs to the extent
4 that the federal program continues to support
5 voice during the phase out period.

6 There is a lot of work happening in
7 the Lifeline docket about to the development
8 of the California-only program and how that
9 might move forward in light of ongoing
10 changes to federal support for Lifeline in
11 general that are outside the scope of this
12 proceeding. But to the extent that it's
13 California -- it's customers who are impacted
14 by a disaster any reason that they have for
15 losing access to the federal program, should
16 result in the same treatment of encouraging
17 them as much as possible to restore their
18 federal eligibility.

19 MS. STEINER: So my question is because
20 there would have to be a different process
21 for those that are in the Federal program
22 with their renewal suspended, the California
23 program will be sending them a renewal form
24 gives us an opportunity to get them back on
25 the Federal program either by requiring proof
26 of eligibility or we requested a waiver from
27 that particular requirement.

28 For those that are de-enrolled for

1 non-usage, there's not a process in place
2 where we would be sending them materials.
3 And we would not be expecting materials from
4 our program. My question is, is there
5 another way that service providers could work
6 with us to get those participants back onto
7 the federal program other than a renewal
8 form?

9 MS. KASNITZ: It may be broad
10 educational efforts, at least, as a
11 foundational way to try to inform customers
12 that the two programs are out there. And
13 they might have separate processes to enroll
14 in them.

15 MS. COOK: Maheen Cook from NaLA. I
16 think consumer education, to echo Melissa's
17 comments, is critical here. Because once
18 they are removed from the program, oftentimes
19 they will get a new phone or phone number.
20 So for the original carriers, if they don't
21 return to that carrier, there's no way to
22 reach them. So their interaction will be
23 more closely aligned with the third-party
24 administrator in that instance.

25 But we restating their continued
26 eligibility or qualifications for the federal
27 program is likely what will have to happen in
28 that case, in the event they are not able to

1 breech the time of being de-enrolled as to
2 non-usage.

3 MS. STEINER: So in this scenario,
4 under the California protections, the
5 participant should still have phone service
6 with their provider. The California program
7 has not de-enrolled them, only the Federal
8 program. So we're looking at how we would
9 then bring them back onto the Federal
10 program, assuming they do in fact have
11 service.

12 MS. COOK: I think we would have to
13 garner their qualifying documentation again
14 for the Federal program. That's the only way
15 that the federal subsidy would likely be
16 reinstated if the federal rules that -- in --
17 that's the only way that I can see would be
18 the best way forward.

19 MS. STEINER: Next question, would the
20 parties support the CDC requesting a waiver
21 from the SCC specifically of the proof of
22 eligibility requirement for re-enrolling
23 these participants as opposed to requesting a
24 waiver outright for the suspension of the
25 deenrollment, the non-usage, and the renewal
26 rules.

27 (No response.)

28 MS. ECKERSLY: Would you ask that

1 again?

2 MS. STEINER: We're trying to get these
3 participants back on the program. And the
4 requirement from the FCC currently, they have
5 to provide proof of documentation. So as a
6 renewal process, that's not currently
7 required. And if there's no renewal process,
8 it may be difficult to get those documents to
9 those participants. So we're looking for an
10 easier way to get them back on.

11 So I'm wondering if parties would
12 support us requesting a waiver from the FCC
13 for the proof of eligibility requirement to
14 reestablish federal eligibility for these
15 participants affected by disasters.

16 MS. KASNITZ: Melissa Kasnitz, again.
17 Off the cuff, I would certainly support a
18 request for such a waiver. But I wouldn't be
19 optimistic that the FCC as currently situated
20 would grant such a waiver.

21 MS. STEINER: Okay. So the other
22 option we have is that under our current
23 rules, customers who have been disconnected
24 from the program have 30 days to reconnect.
25 Do service providers see any way they can
26 work with their participants to reconnect
27 them for those that lost service within
28 30 days of the end of the disaster relief

1 protections?

2 MS. ECKERSLEY: This is a question for
3 carriers.

4 (No response.)

5 MS. STEINER: Okay. So, I guess, the
6 question is if the carriers see a way where
7 they could work with the participants to
8 request a reconnect for them for those who
9 were deenrolled in the federal program for
10 non-usage within 30 days at the end of the
11 consumer protection period.

12 (No response.)

13 MS. ECKERSLEY: There are no comments.

14 MS. STEINER: Okay. So let me move on
15 to the last part of this question, which is
16 how the program should determine which
17 participants are impacted.

18 So in the comments there was a
19 request that the third-party administrator
20 identify the customers and inform the
21 carriers, or that the CPUC provide a list of
22 zip codes. Additionally, there was a
23 suggestion that there may be the billing address
24 or there may be other ways to identify which
25 wireless participants were impacted since
26 they may move around. So I want to follow up
27 on that point.

28 What are the other methods that

1 you're suggesting that we use to identify
2 impacted wireless participants?

3 (No response.)

4 MS. STEINER: Any of the joint
5 consumers that would like to discuss the
6 proposal?

7 MS. SALAS: Yes. And, I'm sorry, I was
8 taking notes at the time. Can you repeat the
9 question?

10 MS. STEINER: The question is about
11 alternative methods for identifying which
12 participants were affected. In the comments,
13 joint consumers said they were interested in
14 discussing other methods for wireless
15 participants, such as self-identification.

16 MS. SALAS: Yes, sorry. This is Ashley
17 Salas for TURN. We are still willing and
18 open to discussing other options like
19 self-identification. I know that was
20 something that some of the utilities had used
21 in response to the resolution, the two
22 resolutions that came out following the
23 October and December wildfires, was
24 self-identification. We're hoping that could
25 be used here too. Hoping to hear from some
26 providers on some thoughts on that as well.

27 MS. KASNITZ: Melissa Kasnitz, as well.
28 Yes, also looking to hear from providers.

1 For customers that have billing addresses,
2 that obviously seems to be the appropriate
3 starting point. Prepaid customers don't tend
4 to have billing addresses, so their location
5 is based on what the TPA, third-party
6 administrator knows seems to be a good
7 starting point.

8 Direct consumers would generally
9 keep self-identification as a supplement. So
10 rather than requiring customers to
11 self-identify, it would be if a customer was
12 not successfully identified, but wanted to
13 believe they should be able to self-identify,
14 demonstrated that they needed assistance.
15 And it shouldn't be the burden on the customer,
16 unless they can't be located through one of
17 the more systemic ways to identify customers.
18 And if the providers have options, other than
19 the TPA and the billing address, we would
20 very much welcome hearing them and engaging
21 with them.

22 MS. STEINER: Okay. Thank you for your
23 comments. I'm going to invite Amin Nojan
24 back up for the next section.]

25 MR. NOJAN: Thank you for your
26 comments. We'll now hear from Lee Brown
27 Emergency Manager from Sierra County Office
28 of Emergency Services.

1 STATEMENT OF MR. BROWN

2 MR. BROWN: Good afternoon, everybody.
3 Lee Brown, Sierra County Office of Emergency
4 Services. For those of you who don't know
5 where Sierra County is, we're kind of
6 northwest of Reno, and we're surrounded by
7 Nevada, Plumas, Yuba, Lassen and Washoe
8 county out of Nevada. We're the second
9 smallest county by population in the state,
10 just under 3,200 people. I grew up in the
11 community of Downieville, a little bit less
12 than 300 residents. Advantages and
13 disadvantages of growing up there was that as
14 a kid, if you got in trouble, your parents
15 knew what you did before you got home.

16 According to the US Forest Service,
17 we see 1.5 million visitors a year in Sierra
18 County - campers, hikers, mountain bikers,
19 fishermen, hunters, just people just enjoying
20 the outdoors. Of those 1.5 million, we have
21 no cell towers in Sierra county. There's not
22 a cell tower in Sierra county. So it's all
23 landline. Over in the Sierra Valley, on the
24 eastside of the county there, some cell
25 service does come in there and a little bit
26 on the ridge.

27 One of the problems we have in
28 Sierra county is being so small, we only have

1 one dispatcher on duty in our PCEP at a time,
2 and we don't have a deputy on duty between
3 midnight and 8:00 in the morning.

4 So in the last year from October
5 20th to October 20th of this year, we've had
6 111 static 911 calls from the aging
7 communications cables. Last week we had
8 three of them, and there's no rain or
9 anything to justify why these calls are
10 coming in, just that the lines are aged.

11 Two different things, last year we
12 had five of these calls within 24 hours. In
13 one of these communities - it's called Clark
14 Station - we've had 42 of those calls last
15 year, and one of those numbers, inside Clark
16 Station since 1998, has called 911 96 times.

17 The dispatcher usually checks the
18 phone, you know, calls them back, and nobody
19 answers. Then they check with AT&T to see if
20 it's a ghost 911 call, and they also check to
21 see if that's a legitimate number that has
22 called in the past. And so then if it
23 hasn't, then they'll send a deputy out there.
24 Sometimes in the winter this area is
25 inaccessible due to snow.

26 The main copper line in Sierra
27 county, according to one of the AT&T
28 repairman, it's twice the age of what it

1 should be. It should have been replaced
2 years ago.

3 In September our fiber-optic line
4 for Sierra county went out, and the Sheriff's
5 Office could not use their radio as the
6 communication link between the PCEP and the
7 repeater was down, and at the same time we
8 had lost 911 service to Sierra City.

9 So I contacted the Sheriff's Office
10 and they checked there in Downieville, and
11 they tried calling 911. Their 911 call went
12 to the Western Regional 911 Center in Canada.
13 And Canada informed them that they have their
14 phone numbers at the Sheriff's Office to
15 route that 911 call back to them.

16 I live in a small community called
17 Goodyears Bar. A telephone pole near my home
18 has been leaning for years, and finally in
19 the storms of 2017, it kind of broke loose
20 and it was kind of just hanging there from
21 the telephone wire, and on a Friday
22 afternoon, a garbage truck went by and hooked
23 the line and I loss services as well as
24 residences down at the street from me. I got
25 a hold of AT&T and by Monday they were out
26 there fixing it, but, unfortunately, some of
27 the other homes that were on that line, it
28 took them weeks to get their service back.

1 So in Pike, we have a small
2 community right there, and they have a --
3 whenever the power goes out in Pike, and if
4 it's out for more than two days, their system
5 is run on batteries at the AT&T center there,
6 and we had to contact AT&T to get them to
7 send a repairman out there to either recharge
8 the batteries, the generator, or to replace
9 the batteries so that they have their phone
10 service.

11 Last year during the 2017 storms,
12 Pike loss their phones. It wasn't due to the
13 batteries. It was due to a tree falling on
14 one of the switches. I contacted the Cal OES
15 coordinator, and they were able to pass that
16 information up the chain of command and I was
17 able to get that repaired within a few days.

18 Allegheny, another small community,
19 intermittent problems for last year. We had
20 a resident up there, sometimes the phone
21 works; sometimes it doesn't. In a medical
22 emergency, he called 911. He called several
23 times and couldn't get through. His neighbor
24 heard him yelling for help, and she was able
25 to contact 911. So thankfully he's okay, and
26 he's back home.

27 Fire Chief Jeff McCollum, he has
28 static on his phone line all the time, and

1 his next-door neighbor, his static was so bad
2 that his phone no longer works. The Lake
3 Basin area, which is above Sierra City, they
4 have static on their phone lines all the time
5 and when they lose a phone line or it needs
6 to be repaired, AT&T has to go out there and
7 they take one wire from one pair and another
8 wire from another pair to make another pair
9 to get that line working.

10 And in Sierra City, when someone
11 wants internet service, they have to weight
12 for someone no move or quit in order to get
13 that DSL service.

14 I have coworker and her mom had
15 passed away, and so her daughter and
16 son-in-law were going to take over the house,
17 but they were disconnected from the mom that
18 passed away, and now they are on a waiting
19 list to get that same service at the same
20 house. Another family I know in Downieville
21 were told by AT&T several years ago that they
22 had to drop their landline and go with
23 U-verse. And that they were told there was
24 no exception. They had to with U-verse and
25 that was with several other residents within
26 the county, and now we have voiceover
27 internet provider and their phone sometimes
28 says, "line in use," and they're not using

1 it, and they can't get out.

2 There was a phone line that was
3 hanging down in Downieville at one time and I
4 was fire chief at the time and I was informed
5 about it and I was heading over there to see
6 it, and one of the AT&T repairmen stopped by
7 and I flagged him down and told him about it
8 and he reported to me he couldn't do anything
9 because he didn't have a service tag.

10 I said, Well, you need to go over
11 and do something about it because we were
12 prepared to either put a ladder up or do
13 something to hang it up there.

14 And I finally convinced him to go
15 over and take care of it.

16 And years ago, talking with AT&T
17 service personnel, I was informed that it
18 would take to get fiber-optic up to
19 Downieville.

20 And since Downieville was in need of
21 high-speed internet service, the county
22 officials who knew it would be several years
23 before AT&T could bring in fiber-optics,
24 contacted Digital Path out of Chico to invest
25 providing high-speed internet through
26 microwave.

27 Within a year after Digital Path
28 started serving Downieville with plans to

1 serve other nearby communities, AT&T ran
2 fiber cable into Downieville several years
3 ahead of schedule, knocking Digital Path out
4 of the community and Digital Path also
5 dropped their plans to serve the other
6 communities that were nearby. One of the
7 communities was Goodyears Bar.

8 When AT&T brought in the
9 fiber-optic, they had a chance to run it into
10 Goodyears Bar, just a mile away from the
11 fiber path, and they did not do it. All they
12 were interested in was serving Downieville.

13 And, see, one of repairmen had
14 commented to me that they spend more money
15 and time on repairs than it would to upgrade
16 the system. Thank you.

17 ALJ RIZZO: Before we conclude, I have
18 one more item. Ms. Steiner, can you come
19 back up regarding Lifeline. And please help
20 me rephrase the question so that we can get a
21 little more on the record regarding it.

22 I would like to get an answer from
23 the carriers on the planning and coordination
24 that needs to occur to help reconnect
25 customers. I believe that was a question you
26 presented. If you can frame it again.

27 STATEMENT OF MS. STEINER

28 MS. STEINER: So the question was for

1 those that had been enrolled in the federal
2 program for nonusage, we would not be
3 currently sending them a form under regular
4 circumstances. The question of how we would
5 get them reenrolled in the federal program.

6 One option for those that had been
7 off the program for less than 30 days whether
8 or not services providers could work with
9 them to reconnect under our 30-day reconnect
10 rules and then for the rest of the consumers,
11 what would be the process for them?

12 ALJ RIZZO: Carriers?

13 STATEMENT OF MR. DISCHER

14 MR. DISCHER: I'm Dave Discher for
15 AT&T. I just don't have the expertise to
16 answer that question. I'm sure we can
17 provide an answer later, but I just can't
18 right now.

19 STATEMENT OF MR. SINGH

20 MR. SINGH: Arvin Singh, Verizon. I
21 also don't have the expertise to answer, but
22 it sounds like it's our wholesale channel
23 that is providing the services today to those
24 consumers. Again, it's something we can
25 probably take off line and collaborate with
26 the wholesale arm of the business to figure
27 out.

28 Clearly, we have visibility when

1 there's nonusage, and there's ways to track
2 those things. How do we use that to trigger
3 that communication to the consumer or to the
4 appropriate agency to drive follow-up; that's
5 certainly doable. I think we just need to
6 engage the right mindshare on our side.

7 STATEMENT OF MS. JACOBSON

8 MS. JACOBSON: This is Kristin Jacobson
9 with Virgin Mobile. Unfortunately, I don't
10 have the person on the phone today that would
11 be able to provide greater detail than I can,
12 but I can at least note the primary issue is
13 identifying the customers who fall within
14 small bracket, but Virgin Mobile could work
15 with staff or work with the third party
16 administrator to send text messages or other
17 outreach efforts to try to communicate with
18 them. I don't fully understand all the
19 pieces of information that need to be
20 communicated and what action needs to be
21 taken, but in terms of just outreach efforts,
22 definitely there is opportunity to
23 collaborate and the most meaningful method of
24 collaboration with Lifeline subscribers tends
25 to be via text message because of the
26 inherent mobility of that customer base.

27 STATEMENT OF MR. HUANG

28 MR. HUANG: David Huang on behalf of

1 the small LECs. Just piggybacking on the
2 discussion of coordinated outreach education,
3 the small LECs believe that a single
4 coordinated outreach and education process
5 rather than separate unilateral efforts
6 should would be effective. So in that
7 regard, I think further workshopping on this
8 issue would be useful.

9 STATEMENT OF MR. DiNUNZIO

10 MR. DiNUNZIO: Mark DiNunzio for Cox
11 Communication again. I also apologize. I
12 don't have the expertise to answer that
13 specifically. But what I will say is we
14 don't have the ability to do text messaging
15 because we are a wireline provider. We do
16 have some outreach efforts on our website
17 that talks about the Lifeline program. So we
18 would be happy to work with staff in coming
19 up with something.

20 ALJ RIZZO: At this point we're going
21 to start wrapping up. There's been a lot of
22 discussion here today that I think
23 necessitates a further ruling to get us some
24 topics that we can iron out further in this
25 proceeding so the parties should look for
26 that.

27 I'll turn it back to Mr. Nojan to
28 start wrapping things up.

1 MR. NOJAN: Thank you, Judge Rizzo.

2 Now, we'll now be moving on to
3 closing comments. So if there are any
4 parties that have a burning question to ask
5 or have not had the opportunity to make a
6 comment or ask question from a previous
7 section at this point we have a minute or two
8 to dedicate to that.

9 STATEMENT OF MS. SALAS

10 MS. SALAS: Ashley Salas from TURN. I
11 want to thank everybody for their efforts in
12 coming here today and speaking and for the
13 Commission for taking on this effort of
14 providing disaster relief for utility
15 consumers.

16 I do want to note that absent from
17 this room today is representatives from the
18 tribal areas of this state, and so I think as
19 we continue to have these discussions, moving
20 forward, we should make sure to be inclusive
21 of all the state including the folks in the
22 tribal regions.

23 STATEMENT OF MS. ECKERSLEY

24 MS. ECKERSLEY: This is Karen
25 Eckersley. I had a follow-up question for
26 one of the previous presentations by
27 Mr. Currier of the 911 office.

28 During your discussion about

1 redundancy and in the fiber section, you
2 talked about redundancy and resiliency and
3 wondering if you would like to comment in any
4 way from a prioritization perspective of what
5 should be redundant, but starting where?

6 STATEMENT OF MR. CURRIER

7 MR. CURRIER: The example that Sierra
8 county points out the challenge for the rural
9 areas. We are seeing a single fiber path
10 into a lot of these rural communities and
11 when that single fiber path is damaged, the
12 entire downstream effects of that are
13 catastrophic.

14 So that would be the priority:
15 Identify the locations in the state for
16 public safety answering points and mission
17 critical facilities of which we have a list
18 where providers know there's only a single
19 path in.

20 What we may not know at Cal OES is
21 which ones only have a single path in.
22 That's where the gap in our knowledge is. We
23 know that exists when the backhoe or the fire
24 takes out that single line.

25 From there, I think it's incumbent
26 upon the providers to take a look at their
27 network infrastructure to look at where a
28 single outage had the most catastrophic

1 effect, in terms of downstream effects for a
2 single fiber going down.

3 In some cases the redundant path
4 doesn't have the capacity to support the
5 through-put needs until -- while you still
6 have a secondary path, it doesn't really meet
7 the bandwidth requirements until the networks
8 are choked up in other ways. What we are
9 going to do when we build out Next Gen 911 is
10 look for those redundant paths in every
11 public safety answering point.

12 Since my bandwidth requirements are
13 not the same as an E-network for a public
14 safety answering point, we're going to build
15 a secondary microwave path for every public
16 safety answering point to meet that need. So
17 those are some suggestions on where to start
18 this process.

19 MS. ECKERSLEY: Thank you.

20 STATEMENT OF MR. BATONGBACAL

21 MR. BATONGBACAL: Eric Batongbacal from
22 AT&T. I just want to address we're actually
23 meeting with Sierra county and so I'll
24 connect with Lee, and as you put it,
25 prioritize needs, and I'm looking forward to
26 that opportunity.

27 STATEMENT OF MR. SINGH

28 MR. SINGH: Arvin Singh. Quick comment

1 to a question asked by Helen earlier in the
2 day about our CFO's cautionary guidance.

3 So the context behind that, in the
4 first quarter of this year, we had invested
5 \$4.6 billion in capex for network investment,
6 which was on 39 percent over the expected
7 guidelines that we shared with Wall Street.
8 So the guidance was that we don't expect to
9 exceed what's been previously communicated;
10 so we are on track to invest over \$17 billion
11 in the network this year. Thank you.

12 MR. NOJAN: It looks like there's no
13 further questions or comments. In that case
14 I'll turn it over to Mr. Medigovich from Cal
15 OES for the closing remarks.

16 STATEMENT OF MR. MEDIGOVICH

17 MR. MEDIGOVICH: First, let me say
18 thank you to everyone at CPUC for allowing us
19 to host and be part of this and also to all
20 of our partners in the audience, and I'm sure
21 I'll see many of you again on the next
22 emergency we're facing.

23 I do have a slide if you want to
24 bring that back up, but it's fine either way.
25 I'll say that the key takeaway that I wanted
26 to share with everybody that we tried to lay
27 out systematically with our presentations
28 today for you is that while I'm very

1 appreciative of the voluntary sharing of the
2 information that I get, as I pointed out,
3 there's no common operating picture for us to
4 work from and to make quick decisions and to
5 aid our decision-making. So it's an area I
6 definitely want to work collaboratively and
7 to see change. The impacts are just way too
8 significant and great in making things
9 difficult for us all the way around.

10 The second piece is that we talked
11 about cellular infrastructure and for that
12 matter any communication infrastructure, if
13 it's not hardened and doesn't have redundancy
14 built into it, resiliency built into it, it
15 just becomes a vulnerability for us as we
16 take care of work. So finding ways that all
17 infrastructure is more resilient, has
18 redundancy, and is capable of operating in
19 these disasters is better for everybody
20 involved.

21 I think we did a pretty good job of
22 outlining what the limitations of the 911
23 system were, the causes of outages, and we're
24 hopeful because we'd like to see us solve
25 some of the funding issues we have right now
26 because Next Generation 911 should overcome
27 those limitations, and we're anxious to put
28 that into play.

1 Finally, we've talked about
2 deployables. They have a great place in our
3 emergency operational work. We are always
4 grateful to our partners, I will say that.
5 Deployables work wonderfully for us
6 particularly at shelters, at incident command
7 posts. We've got just wonderful pieces of
8 things we can do, but as we've seen in these
9 big, large catastrophic fires, they're not a
10 substitute. You can't drop a deployable in.

11 We have many officials that believe
12 that a deployable is going to service 10,000
13 people in a population center that's lost all
14 cellular communication, and it's just not the
15 case. Our deployables work great, but they
16 have limitations for them.

17 And then on wireless emergency
18 alert, boy, did we see a lot of emphasis on
19 that after 2017 fires. The ability to make
20 quick decisions, and the work we're doing in
21 that area between the federal government and
22 the counties and what we're putting together
23 here at the state level is something that
24 we're going to continue to work on.

25 I did get a question off line
26 regarding the guidance that Cal OES is
27 working on. That's going to be presented at
28 the SEMs meeting here in December, and once

1 that State Emergency Management meeting is
2 completed, it will be open for comment, and
3 we'll be looking for feedback from all of you
4 at that point in time, and you can share your
5 comments, but most of the communication on
6 that is geared for us in the counties, and
7 how we're going to do business and set those
8 standards for.

9 Once again, thank you very much. I
10 wish all safe travels.

11 ALJ RIZZO: If there are no other
12 matters the parties wish to raise at this
13 time, we'll be off the record.]

14 (Whereupon, at the hour of 3:30, the
15 Commission Workshop having been
16 concluded at Cal OES, in Mather,
17 California, was adjourned.)

18 * * * * *

19
20
21
22
23
24
25
26
27
28

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

CERTIFICATION OF TRANSCRIPT OF PROCEEDING

I, KARLY POWERS, Certified Shorthand Reporter No. 13991, in and for the State of California do hereby certify that the pages of this transcript prepared by me comprise a full, true, and correct transcript of the testimony and proceedings held in this matter on November 8, 2018.

I further certify that I have no interest in the events of the matter or the outcome of the proceeding.

EXECUTED this 8TH day of November, 2018.



KARLY POWERS
CSR No. #13991

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE
STATE OF CALIFORNIA

CERTIFICATION OF TRANSCRIPT OF PROCEEDING

I, Shannon Ross, Certified Shorthand Reporter No. 8916, in and for the State of California, do hereby certify that the pages of this transcript prepared by me comprise a full, true, and correct transcript of the testimony and proceedings held in this matter on November 8, 2018.

I further certify that I have no interest in the events of the matter or the outcome of the proceeding.

EXECUTED this 8TH day of November, 2018.



SHANNON ROSS
CSR No. 8916

(END OF ATTACHMENT A)