

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

FILED 5/11/2018  
DOCUMENT NO. 03633-2018  
FPSC - COMMISSION CLERK

In the Matter of:

DOCKET NO. 20170215-EU

REVIEW OF ELECTRIC UTILITY  
HURRICANE PREPAREDNESS AND  
RESTORATION ACTIONS.

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VOLUME 2  
PAGES 156 through 269

PROCEEDINGS: ELECTRIC UTILITY HURRICANE WORKSHOP  
COMMISSIONERS  
PARTICIPATING: CHAIRMAN ART GRAHAM  
COMMISSIONER JULIE I. BROWN  
COMMISSIONER DONALD J. POLMANN  
COMMISSIONER GARY F. CLARK  
COMMISSIONER ANDREW G. FAY

DATE: Wednesday, May 2, 2018

TIME: Commenced: 1:45 p.m.  
Concluded: 4:06 p.m.

PLACE: Betty Easley Conference Center  
Room 148  
4075 Esplanade Way  
Tallahassee, Florida

REPORTED BY: DANA W. REEVES  
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## I N D E X

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

2 (Transcript follows in sequence from  
3 Volume 1.)

4 COMMISSIONER BROWN: All right. Welcome back.  
5 The time is roughly 1:45 and we are back on the  
6 record here in this hurricane workshop, day one, of  
7 two-day workshop. And next up is FECA, Florida's  
8 Electric Co-Op's, and with us is Michael --

9 MR. BJORKLUND: Bjorklund.

10 COMMISSIONER BROWN: Bjorklund. Thank you.  
11 Welcome.

12 MR. BJORKLUND: Thank you, Madam Chair. I  
13 appreciate you all giving us the opportunity to be  
14 here today.

15 My name is Mike Bjorklund. I am the general  
16 manager of the Florida Electric Cooperative  
17 Association, and as far as storm experience goes,  
18 I've been a part of FECA for a little over ten  
19 years and I've been -- the majority of that's been  
20 a lull. With Irma, that was my first active role  
21 within a hurricane. So I was much like Jerry  
22 Clower, the first football game I ever went to, I  
23 got to play in it. So there was a lot of learning  
24 on the fly and we made it through and I think we  
25 did a good job.

1           But just a little about co-op's. Ma'am,  
2           before we get started, co-op's are not-for-profit  
3           electric utilities. We are owned by those we serve  
4           and governed by an elected board of trustees. We  
5           have been in business in Florida since the '30s and  
6           '40s respectively, depending on what part of the  
7           state you're in. We are made up at FECA of 15 of  
8           Florida's 16 distribution cooperatives and two  
9           G&T's. We serve approximately 11 percent of the  
10          population, but we cover 60 percent of the land  
11          mass, which equates to approximately 12 co-op  
12          members per mile of line. So we deal with the same  
13          process of restoration, but we don't have the  
14          density. So because we get up a mile high, we're  
15          not having the same effect as some of our partners  
16          out here in the electric utilities. So we have to  
17          be a little bit more dynamic in some instances.

18                 One of FECA's primary responsibilities is to  
19                 help after storms. We manage the mutual aid  
20                 program for the electric co-op's and we also help  
21                 manage and request resources as needed. We also  
22                 act as the liaison to the state EOC on behalf of  
23                 our members and also through other government  
24                 entities. However, it may work out that we need to  
25                 perform that function.

1           And I can tell you, Madam Chair, we have very  
2 much enjoyed working with Rick Moses and his staff.  
3 He is the best; and when you're in that crisis  
4 situation and you've got to make the call or get  
5 the call, having that cool, calm, collective voice  
6 on the other end, that makes a difference.

7           But as been pointed out, storm restoration  
8 actually begins with storm preparation and we do  
9 that as part of our duties at FECA. We maintain a  
10 mutual aid workbook that we update annually and  
11 distribute to our members so everybody understands  
12 what the plan is, what our processes are. We also  
13 go through and participate in several conferences  
14 to help broaden our horizons. I work with my  
15 counterparts around the country with storm  
16 coordinators to talk about the lessons they've  
17 learned throughout the year and also relate what we  
18 have to offer. We also participate in FCG's  
19 hurricane conference and we are going to be holding  
20 our hurricane conference for our members later this  
21 week, actually on Friday, and we'll be working with  
22 our folks on getting them ready for our process.

23           At the co-op level, each of our members does  
24 their own version of this and that includes several  
25 things. A lot of the stuff we've already talked

1           about, mock drills, storm manuals, plans, they also  
2           meet with their local governments and EOC's, not  
3           only prior to the storm, but throughout the year,  
4           and when they get to the storm aspect of their  
5           restoration efforts, they begin meeting days or  
6           sometimes weeks in advance to start trying to come  
7           up with scenarios and probable outcomes so they can  
8           be best prepared for what they're going to need as  
9           far as personnel to restore and resources they're  
10          going to need to effect that job, and also to get  
11          their logistics together. I think it's been  
12          mentioned many times, but it's worth noting, just  
13          because you have help, that doesn't mean they're  
14          already fed and have a place to stay. So you have  
15          to make sure all the logistics are handled, as  
16          well.

17                 But in addition to the planning and the  
18          drills, there is also the active role that the  
19          co-op's play on maintaining their system and  
20          hardening it. Since 2006, a lot of it's per Rule  
21          25-6.043 here at the Commission. We file annually  
22          what we do as far as co-op's construction  
23          standards. We also let you all know about our pole  
24          inspection process and our vegetation management  
25          program. And a lot of what happens in that rule is

1           also mirrored through RUS. And RUS is the Rule  
2           Utility Services, which is housed under the USDA.  
3           This is a federal loan program that the co-op's can  
4           access. And in order to get the money you have to  
5           abide by strict standards and regulations and these  
6           dollars can be used for anything from grid  
7           maintenance, upgrades, modernization and other  
8           projects.

9           COMMISSIONER BROWN: If you don't mind me  
10          interrupting, can you use the RUS funds, I guess  
11          funds from RUS, to pay for, I guess, for  
12          restoration activities?

13          MR. BJORKLUND: No, ma'am, we don't do that.  
14          We are able to apply for FEMA dollars so we  
15          generally will go through, start our repair  
16          process, and then go through the FEMA process to  
17          get reimbursed for the dollars we spend.

18          COMMISSIONER BROWN: Thank you.

19          MR. BJORKLUND: Yes, ma'am.

20          In addition to the standards that you have to  
21          abide by through RUS, they've also been a little  
22          bit ahead of the curve in emergency restoration  
23          planning. They started in the '60s recommending  
24          that each co-op bar have a written plan, which  
25          evolved in the '90s, to a requirement to have such

1 a plan, and they also started in the mid-90's with  
2 pole inspections, which the basis of that is in the  
3 rule that we abide by and file with you all  
4 annually.

5 As the storm approaches and it becomes clear  
6 that Florida is in danger, we at FECA begin doing  
7 several things. Number one, as I mentioned before,  
8 we're already working with the EOC. We're talking  
9 to decision-makers on what they see coming, keeping  
10 them in the loop on what we're -- our activities  
11 are. We also start communicating with our  
12 managers, our FECA members, to make sure they have  
13 their issues all in a row and we understand what  
14 they're expecting and what we might need. Key  
15 staff is also included on those calls.

16 And then, from my standpoint, I also activate  
17 our mutual aid network and that's comprised of  
18 about 834 distribution co-op's across the country.  
19 I think our map is in the presentation that we  
20 submitted to you all and it shows how far our co-op  
21 family reaches around the country. And we utilize  
22 them extensively during Irma. We had 11 of our 15  
23 distribution co-op's were affected by Irma, which  
24 we serve from the Panhandle up around Century all  
25 the way to the Upper Keys. So pretty much



1           everybody east of the Apalachicola River got a  
2           taste of it. So we had 11 of the 15 co-op's, there  
3           were 44 counties that were affected. We requested  
4           mutual aid from 16 various states. We were -- had  
5           that mutual aid committed. In some instances,  
6           pre-staged where it was available. If they were  
7           coming from extraordinary distances, we had them  
8           rolling this way so they could be in as soon as the  
9           weather calmed and we had them coming in from as  
10          far away as Minnesota, Wisconsin, Texas and all  
11          points in between.

12                 Our total workforce was well over 5,000 and  
13                 that included our incumbent utility force, our over  
14                 1,3000 mutual aid folks that we had come in and an  
15                 additional 1,300 contractors that were working with  
16                 us, as well. And as with every storm, the  
17                 conversation comes up about underground versus  
18                 overhead and which is better. And it always comes  
19                 back to, as it's been pointed out several times,  
20                 that underground seems to be the way to go, and  
21                 obviously it is not the silver bullet. Quite  
22                 honestly, if there was a silver bullet, it would  
23                 make things a lot easier, but where it is available  
24                 and cost-effective, the co-op's have initiated  
25                 undergrounding programs, particularly on new

1 construction, new subdivisions where the cost  
2 differential is low. You get in on the front end  
3 and in the areas where it makes the most sense.

4 But just to reiterate what's already been  
5 said, we've got problems with everything you do.  
6 So with underground, as long as you're dealing with  
7 primarily a wind event and you don't have to deal  
8 with the tree roots upending the system, it's -- it  
9 can generally be better if you're dealing with a  
10 flooding event like we saw in other parts of the  
11 state. Particularly down in the Upper Keys, we had  
12 everything from debris and sand going into our  
13 systems, our equipment boxes, to washing -- have  
14 our pad-mounted transformers washed away and a  
15 myriad of other things that come along with having  
16 high water. So it's a mixed bag, but where it  
17 makes sense, we do try to implement it particularly  
18 when it's cost-effective.

19 Impediments to restoration, I think everything  
20 that we experienced has fairly well all been said.  
21 The primary concern that we had when dealing with  
22 fuel was the shortage. I mean, it was the perfect  
23 scenario of having Harvey and the shortage in  
24 Florida. So we had to expand on what our current  
25 plans were. Many of our contracts that we had were

1 not able to be fulfilled because they just didn't  
2 have access, so we went well beyond our traditional  
3 means reaching sometimes outside the southeast to  
4 bring in fuel tankers and then we used our co-op's  
5 as fueling depots. So that kind of gets into our  
6 lessons learned, but I'll save that for the  
7 closing.

8 We also found a shorting -- a shortage of  
9 staging sites, and that came from a combination of  
10 issues. Sometimes it was because they had already  
11 been taken up, other emergency personnel had gotten  
12 them. Sometimes the state needed them. There were  
13 other instances where electric utilities got them  
14 before we got them, and it was just a matter of  
15 right place right time. But then some of our  
16 facilities that we normally had access to were not  
17 available because of the storm track and intensity.  
18 It just wouldn't make sense to be in that  
19 particular place, not knowing exactly what the  
20 outcome would be.

21 We also had -- we didn't have very much  
22 success with the escorts. I know that some folks  
23 seemed to think it worked out well. For us, we had  
24 several instances where we had -- I tried to get  
25 the escorts for our crews, to get them down to

1 various parts of the state. We had instances where  
2 the utility crews waited hours for them to arrive,  
3 only to just merge into traffic and just become  
4 part of the crowd. And that's okay. I mean, we --  
5 I mean, it's okay as in we understand, because we  
6 were in the middle of a historic evacuation and  
7 historic influx of everybody trying to get back,  
8 but had we known what the process was exactly, we  
9 might have had an opportunity to make some  
10 different arrangements, or at least get the guys on  
11 the road a few hours earlier so they could have  
12 just been moving, albeit slow.

13 Hotels, which I think's been fairly well  
14 covered, we had a couple of instances where we had  
15 crews in hotels that were asked to leave because of  
16 events that were in the greater vicinity. There  
17 was a football game where the hotel was booked for,  
18 so they moved us out. They had a golf tournament  
19 at another hotel. We tried to work with them. It  
20 proved that would move us to an impasse so we had  
21 to make other arrangements, and I don't think I  
22 have to tell you how much more difficult it is to  
23 try to complete a restoration process when you're  
24 working with crews and trying to find new hotel  
25 accommodations.

1           COMMISSIONER BROWN:  If I could just interrupt  
2           you.  That's just really deplorable.  I mean, is  
3           there something that we could have done to have  
4           aided you a little bit more?

5           MR. BJORKKLUND:  We have tossed around a couple  
6           of options.  We don't know that if something might  
7           be included in the Governor's executive orders, or  
8           emergency orders, but I don't know the legality of  
9           all that.  I don't know if that's even a  
10          possibility, but --

11          COMMISSIONER BROWN:  That sounds like a very  
12          unfortunate situation, though, and unexpected --  
13          and my apologies.

14          MR. BJORKKLUND:  Well, thank you very much, but  
15          it wasn't your hotel, so -- but moving into our  
16          customer and stakeholder communications, electric  
17          cooperatives have a great benefit of living and  
18          working within their communities, but they're  
19          generally, as a rule, smaller.  So everybody knows  
20          everybody.  If you've been -- or if you're from a  
21          small town or been to it, that's kind of the areas  
22          that we're in and so we have a very good  
23          relationship with our local EOC's, our local  
24          governments.  We work with all these people  
25          throughout the year on various issues, so it's easy

1           for us to maintain that relationship in addition to  
2           going to them annually, talking to them about what  
3           we need to do as far as our coordination and then  
4           also talking to them about how we need to handle  
5           critical infrastructure, what we need to do as far  
6           as any type of prioritization. And for a lot of  
7           things, these communities with us and these folks  
8           have such a long history, it's more of just trying  
9           to make sure that nothing's been added that we  
10          don't know about. So it's a good back-and-forth  
11          that we've been able to enjoy with our folks and we  
12          try to make sure that those relationships are  
13          maintained and operating at peak performance.

14                 The electric co-op's have various means that  
15          they communicate with their members. We talk to  
16          our folks before, during and after the storm,  
17          trying to keep them with the information that they  
18          need. Folks are much more likely to endure the  
19          hardship of a storm if they understand what they're  
20          dealing with. If they knew that there's going to  
21          be an extended outage because there is a substation  
22          that's down or because there's a transmission down,  
23          we try to keep them abreast of what the process is.  
24          That's a big deal and we do that through a variety  
25          of media, everything from traditional press

1 releases to radio ads, to all the electronic  
2 versions including social media.

3 And social media, I think everybody gets it,  
4 but it's almost one of those captain obvious  
5 things, but for us it really was a lesson learned  
6 after Hermine and Matthew. We had -- the two  
7 co-op's that got hit during that had fairly mature  
8 social media programs, but if you'll recall, those  
9 were the first storms we had since the advent of  
10 social media. So we got to see a microcosm of how  
11 that worked for our members and how well they were  
12 able to access it and how well we were able to  
13 distribute information. So going into Irma, we  
14 already had that in our hip pocket.

15 Again statewide FECA, we operate with as the  
16 liaison between the state EOC and state government  
17 and try to make sure that wherever the needs are,  
18 whatever questions they have, we can be the central  
19 clearing house and the one-stop call so that if  
20 anybody needs to talk to a co-op, we need to make  
21 sure that happens or we try to head things off at a  
22 pass so that we have the information already handy  
23 so that we can take care of things immediately.

24 From our lessons learned, it's each storm has  
25 a different personality and I wish I could tell you

1           that everything we learned in Irma was going to  
2           translate directly into the next one. That's not  
3           necessarily the case. That doesn't mean we don't  
4           write it all down and make sure that we are  
5           including it in our next version of updates and  
6           manuals, et cetera.

7                       And we also have learned really about the fuel  
8           supply chain. That was something we had not  
9           experienced. And when I talk about this, I don't  
10          want you to think we had anybody sitting on the  
11          side of the road without gas. That wasn't the  
12          case. I mean, we were able to react quick enough  
13          and get a plan put together. We didn't have that  
14          type of experience, but we have gone well outside  
15          traditional means to make sure that our fuel supply  
16          chain and other materials is extended well beyond  
17          not just the state and the region, but even outside  
18          of that. So our plan B has a plan B.

19                      And from there, I would say that the biggest  
20          thing that our folks have now is we had a whole  
21          generation of cooperative employees that never had  
22          necessarily been through a storm and those folks  
23          have been storm hardened and they're going to be  
24          ready for the next one, which we hope we don't ever  
25          have to do.



1           COMMISSIONER BROWN: Great. Thank you. Thank  
2 for your presentation. Chairman Graham.

3           CHAIRMAN GRAHAM: Thank you. Michael, I've  
4 got a question for you. Now, I know it's unfair  
5 asking a question about Irma just because it was  
6 just such a beast of a storm and everybody in -- it  
7 was all hands on deck in the state of Florida, but  
8 why don't the co-op's, and I'm not picking on you,  
9 it's just -- it seems like most of your mutual aid  
10 is coming from other co-op's. Why is it not coming  
11 from more muni's or the IOU's? Is there barriers  
12 there that we or somebody needs to work on to kind  
13 of -- kind of lower those things down?

14           I know after Matthew the Governor had a big  
15 push to try to see about all three groups working  
16 closer and better together, but it seems like, you  
17 know, the IOU's all work with IOU's and the muni's  
18 work with themselves and the co-op's work with  
19 themselves, but it just seems like, you know, on a  
20 smaller storm, you know, your -- like in this case,  
21 Gulf was right there. It seemed like you could  
22 have gotten, you know, resources from there and not  
23 have to reach up into Kentucky.

24           MR. BJORKLUND: Well, I don't want to speak  
25 for any of the IOU's, but -- and I should have

1 mentioned this when I was speaking before, but  
2 the -- with the municipal electricians, we do have  
3 mutual aid agreements existing with them, not only  
4 within the state, but also throughout the country,  
5 and we do that as part of our national association.  
6 With our experience with IOU's, they may want to  
7 talk more about this, but they also have their own  
8 mutual aid agreement. So like with Gulf for  
9 instance, in your example, I believe they were  
10 already committed to go help elsewhere. So I'm not  
11 sure they necessarily had the capacity to do that,  
12 or they may have been headed up to Georgia. So,  
13 like I said, Irma may not be the fair example, but  
14 we're willing to work with anybody and as long as  
15 we make sure all the terms are equitable, we'll  
16 definitely do that.

17 CHAIRMAN GRAHAM: So right now, off the top of  
18 your head, there's no obstacles stopping you from  
19 doing that, it's just right now it's this is the  
20 way you've done it?

21 MR. BJORKLUND: Well, it's not only that. I  
22 mean, you have some other things you have to  
23 consider. So as a recipient of FEMA dollars, we  
24 have to make sure as the way we go about it is  
25 going to be acceptable in FEMA's eyes. Now,

1 obviously the storm is a disaster, a big enough  
2 disaster, there's going to be certain ways that you  
3 can work within that realm, but if you're dealing  
4 with your normal storm situation, they're going to  
5 want you to deal with the normal avenues of  
6 government that they want you to go, if that makes  
7 sense.

8 CHAIRMAN GRAHAM: Yes.

9 MR. BJORKLUND: So there's that aspect of it,  
10 but when you're dealing with electric utilities  
11 outside the family, you just have to make sure all  
12 the I's are dotted and the T's are crossed and  
13 there's legal aspects of it. And for that part of  
14 it, like I say, we're happy to work with anyone.  
15 We just have to make sure all the terms are  
16 equitable.

17 CHAIRMAN GRAHAM: Okay. Thank you.

18 COMMISSIONER BROWN: Commissioner Clark.

19 COMMISSIONER CLARK: You might -- just a  
20 couple questions. Acknowledging your role is a  
21 little bit different than the other utilities in  
22 that you facilitate 16 different independent  
23 companies, if you will, but in terms of -- you  
24 mention in your presentation you're dealing --  
25 these companies are being held to certain set of

1 standards and RUS standards. Are all of your  
2 utility companies using RUS standards? Are they  
3 all RUS borrowers?

4 MR. BJORKLUND: The short answer is, no,  
5 they're not all RUS borrowers. However, most of all  
6 the co-op's at one point in time have been RUS  
7 borrowers and that has been the basis for their own  
8 standards of construction. So even though they may  
9 not be an RUS borrower now, they're still  
10 implementing those same type programs and  
11 standards.

12 COMMISSIONER CLARK: Are they required to  
13 maintain that same RUS standard or are they allowed  
14 to basically -- who has supervision and oversight  
15 of their construction standards if they're not an  
16 RUS borrower?

17 MR. BJORKLUND: From that perspective, it  
18 would come back to the board of trustees to make  
19 sure that the oversight at the co-op is happening  
20 and doing what they're supposed to do.

21 COMMISSIONER CLARK: We talked about the EOC  
22 and the involvement at the local level and each of  
23 the utilities has talked about their interaction  
24 with the local EOC's. One of the things that seems  
25 to have worked well is when the utility companies

1           have an individual that is located inside those  
2           facilities during an activated storm. What would  
3           the co-op's position be in manning each of the  
4           EOC's in the affected areas?

5           MR. BJORKKLUND: It's a mixed bag. We have  
6           some co-op's that have -- that are big enough that  
7           have enough staff that can do that and they do do  
8           that.

9           CHAIRMAN GRAHAM: Mike, can you pick your mic  
10          up a little bit?

11          MR. BJORKKLUND: Yes, sir. Sorry about that.

12          So we have some of the co-op's that actually  
13          have staff that's big enough that they can  
14          accommodate that right now and they do. We have  
15          some co-op's whose staff are literally so small  
16          that it would be taking one person away from a  
17          critical operation to do that. So in those  
18          instances, it goes back to reaching out to those  
19          folks beforehand, making sure that they have all  
20          the critical information that they need as far as  
21          contact information, whether it be the manager, the  
22          operation's folks, or whomever to make sure the  
23          messages are conveyed.

24          COMMISSIONER CLARK: And, finally, this is  
25          more of a pointer, I guess, to the remainder of the

1 Commission. You don't represent all of the  
2 electric co-op's in the state. There's one that  
3 does not choose to be represented by FECA, is that  
4 correct?

5 MR. BJORKKLUND: That is correct.

6 COMMISSIONER CLARK: It's also probably the  
7 second or third largest co-op in the United States.  
8 And just to the Commission's point, it probably  
9 would be appropriate, there may be certain  
10 municipals that are not represented by FMEA, as  
11 well, that we reach outside of these two  
12 organizations to see what the particular plans for  
13 those utility companies are that aren't being  
14 represented by an association here today.

15 COMMISSIONER BROWN: Thank you for that point.  
16 Why would a co-op in Florida not be a member of the  
17 association? Is there a reason why there's two  
18 that are not members?

19 MR. BJORKKLUND: Well, there's one distribution  
20 co-op that's not a member and, quite honestly, it  
21 happened well before my time. I'm not sure of what  
22 the history is. They --

23 COMMISSIONER BROWN: Maybe Commissioner Clark  
24 is.

25 COMMISSIONER CLARK: I was there.

1 (Laughter.)

2 COMMISSIONER BROWN: All right.

3 Commissioners, any other questions? Commissioner  
4 Polmann.

5 COMMISSIONER POLMANN: Thank you, Madam Chair.  
6 The issue of mutual aid has been talked about here  
7 several times and it clearly is a critical aspect  
8 of the recovery, the restoration process and  
9 training on that is very, very important.

10 Chairman Graham raised a very interesting  
11 point. And just as a follow-up, I don't think we  
12 can explore all the details of the point he raised  
13 and I think you answered it in a very important  
14 point, being there's a lot of legal issues  
15 associated with that and meeting the FEMA criteria  
16 is an important point. There is a lot of detail  
17 behind that. And I, for one, perhaps my colleagues  
18 would benefit from learning a little bit more about  
19 that.

20 Perhaps there -- and this may go to all of the  
21 representatives here. You raised the notion of the  
22 inside the family, outside the family, and I  
23 appreciate that language. So the categories of  
24 different utilities and how you deal with mutual  
25 aid, I would invite you in speaking to staff now at

1           this point to try to gather a little bit more  
2           information on how this works, how does the mutual  
3           aid concept work with regard to the different types  
4           of utilities and what aspect of that puts  
5           boundaries or brackets or limits on how that works.

6           Perhaps, just so that we have a better  
7           understanding, what you can do, what you are  
8           limited on. And I don't know if there's anything  
9           that this Commission can help facilitate. I simply  
10          don't know. So I would like to get a little bit  
11          more information on it.

12          I know, you know, when the incident occurs you  
13          have a process of calling upon resources and  
14          scheduling resources. A lot of that's advanced  
15          planning, but it's kind of like, let's get the job  
16          done, worry about how it gets paid for later in  
17          some regard, and I have some experience in my work  
18          history with that. There's a lot of magic that  
19          occurs and people show up and things -- let's get  
20          the work done, but then it takes months, if not  
21          longer, to figure out who did what and who gets  
22          paid and perhaps that's part of the notion of an  
23          agreement. It's a mutual aid agreement and that  
24          may be well a significant part.

25          So, if you would, anticipate that there may be



1           some effort from staff to try to gather so we're  
2           better informed, and there may or may not be some  
3           improvements that could be made. So, thank you.

4           MR. BJORKLUND: Yes, sir. And if I may, Madam  
5           Chair, I'd just like to say to you, with our mutual  
6           aid system that we have in place, we didn't  
7           experience a skipped beat. I mean, we had exactly  
8           what we needed when we need it, and outside of the  
9           extraordinary circumstances that everybody dealt  
10          with, with the traffic and other things, it was --  
11          we got them where we wanted them.

12          COMMISSIONER BROWN: Commissioner -- Chairman  
13          Graham and then Commissioner Clark.

14          CHAIRMAN GRAHAM: Yeah. I mean, I understand  
15          where you're coming from and I didn't mean for it  
16          to be specifically about Irma, but as one of the  
17          IOU's earlier said they ordered -- they had the  
18          mutual aid and had more-than-they-needed trucks  
19          coming down this way and it just seemed to be a  
20          shame that you had to have people come down from up  
21          north when, you know, they had an abundance that  
22          was right here. And I think -- you know, if we  
23          view this more as Team Florida, you know, than the  
24          individual families then maybe, you know, we can  
25          probably help each other along here.

1 MR. BJORKLUND: Yes, sir. Thank you.

2 COMMISSIONER BROWN: Thank you, Chairman  
3 Graham. All right. Commissioner Clark.

4 COMMISSIONER CLARK: Just another couple  
5 points on the mutual aid. I think that -- I  
6 understand the logic way and the way that we've  
7 structured in the past, muni's working with muni's  
8 and co-op's with co-op's. There are some  
9 construction standards that each one are probably a  
10 little bit more familiar with and kind of tend to  
11 operate towards those particular standards, but at  
12 the same time we've also been in the situation  
13 where most of the time when disasters occur your  
14 neighbor is about as affected as you are, so that  
15 kind of changes the balance of local mutual aid.

16 The resources that are available from a  
17 statewide perspective, I don't recall any instance  
18 where any of the utility companies have had the  
19 failure of an ability to get folks in to be able to  
20 do the work. And Chairman Graham's point is right  
21 on target, yeah, but we had a lot of folks here  
22 that probably could have helped out and maybe we  
23 wouldn't have had to brought these individuals in  
24 from quite so far away, but I'm just asking a  
25 general question. Have any of the utilities

1 experienced any problem receiving the number of  
2 workers that they needed? I realize we did have  
3 some particular utilities that didn't ask for help  
4 when they probably should have asked for help in  
5 some previous storms, but has there been any  
6 specific issues where you couldn't get the amount  
7 of workers that you needed in a storm?

8 MR. HAINES: Commissioner Clark, I would  
9 just -- I think I mentioned it during my  
10 presentation that our challenge was a lot of the  
11 utilities that were close to us were not sure they  
12 were in the clear so a lot of utilities were  
13 holding resources. We had to reach further away  
14 which adds to our cost, adds to our travel time,  
15 all those things. So those are the kind of  
16 challenges. But at the end of the day, we got all  
17 the resources we need. And I would also just add  
18 that we have helped, I believe it was JA in the  
19 past, so as long as we can get our attorneys  
20 comfortable and get an agreement, individual  
21 agreement in place, we have shown we can kind of  
22 help out other utilities in the state of Florida.

23 COMMISSIONER BROWN: Florida Power & Light.

24 MR. OLNICK: Thank you. And I could just add  
25 a couple other comments, too. The mutual exchange

1 agreements in process, there are, as mentioned  
2 earlier, throughout the country for the  
3 investor-owned utilities about seven major  
4 organizations here in the southeast, and I'll use  
5 that as an example. We're members of the southeast  
6 electric exchange. That covers utilities as far  
7 west as Texas and Oklahoma and then all the way up  
8 through Pennsylvania. So that's what the southeast  
9 electric exchange is.

10 And that organization has been in place for  
11 decades. And during a natural disaster, whether  
12 it's a hurricane an ice storm, whatever it is, that  
13 the organization that we all sign up to to ensure  
14 that whoever has the most damage, whoever has the  
15 most damage first, whatever resources are available  
16 within the entire southeast electric exchange,  
17 they're the broker to ensure that everybody gets  
18 the appropriate share of resources that are  
19 available based on how much damage there is, how  
20 many resources are available and so forth. So  
21 that's the value of those organizations. They make  
22 sure that everybody is somewhat equitable based on  
23 how much damage you really have. If the damage is  
24 so bad that you have to go outside of those mutual  
25 exchange groups, then you go to the next one in the

1 northwest or the midwest, and so that's the value  
2 of having that organization to help broker that.

3 If it's a much larger event, organizations  
4 like EEI, and the DOE get involved to help broker  
5 it. So I think there's a pretty -- that makes  
6 things fair. When it comes to investor-owned  
7 utilities like ours, and I think others here at the  
8 table, in the last two storms, Matthew and Irma, I  
9 can think of right of the top of my head at least  
10 six of the co-op's here in the state that we  
11 supported. And so that -- that offer is always  
12 there. I think no matter if you're a municipal, a  
13 county co-op or, you know, we are all in the same  
14 business and we will assist. Agreements and  
15 legalities are a challenge, but I don't think  
16 that's something that's ever stopped us from doing  
17 the right thing.

18 COMMISSIONER BROWN: Chairman Graham.

19 CHAIRMAN GRAHAM: It's funny that you just  
20 said that. That's where I was heading, the  
21 agreements and legalities, and maybe this is  
22 something that staff can look into because I could  
23 imagine when the Governor declares a state of  
24 emergency there should be a whole nother set of  
25 laws that go into place that take care of the

1           legalities of a lot of this stuff and takes care  
2           of, you know, the insurance and all that kind of  
3           stuff because sometimes it gets crazy, you know,  
4           when everybody's looking and especially when the  
5           storm that's on its way down and you're looking to  
6           sign agreements, and it seems to me maybe our  
7           legislative buddies can work this thing out so we  
8           do have something when the Governor does make that  
9           declaration that, you know, you don't have to worry  
10          about dealing with that. And I don't know, like I  
11          said, as staff looks going forward, maybe there's  
12          something we can come up, with suggestions that we  
13          can make to legislators.

14                 MR. BALLINGER: We probably talk about this  
15                 more in June. We really didn't delve into that  
16                 under this review. I can tell you though, another  
17                 thing to consider is not only the resources but the  
18                 management resources at the host utility. Can they  
19                 handle the number of crews, maybe a fact or two to  
20                 consider in getting this. Just throwing more  
21                 people at it is not always the answer. It's a  
22                 complicated thing. I agree with you that some of  
23                 these things should be worked out ahead of time of  
24                 that, but we have seen the cooperative effort of  
25                 all the utilities through these storms when push

1 comes the shove.

2 CHAIRMAN GRAHAM: And I hope that no one walks  
3 away with the feeling that I'm pointing fingers  
4 saying that you guys aren't working together  
5 because I know better than that. I'm just -- it  
6 just seems like little things that kind of slow --  
7 little hiccups that slow the process down and I'm  
8 just trying to see if we can't smooth everything  
9 out as well as possible.

10 COMMISSIONER BROWN: Would Ms. Collins from  
11 Gulf or Mr. Cutliffe from Duke or Mr. Puentes from  
12 FPUC want to join in the discussion here or offer  
13 any comments?

14 MS. COLLINS: Yes. Thank you. I did just  
15 want to share that we did have the opportunity to  
16 help out with the City of Tallahassee. And after  
17 that experience, Chairman Graham, you talked about  
18 the difficulty of trying to get through an  
19 agreement, so we were able to work through that.  
20 And the lesson that we learned is we really need to  
21 get those agreements done ahead of time, and we  
22 have been able to secure mutual assistance  
23 agreements with all the municipalities in the State  
24 of Florida, so it can be done. And just as my  
25 colleagues stated, we're very welcoming and open to

1 helping out the co-ops in the state, as well.

2 COMMISSIONER BROWN: I agree with getting it  
3 done. In advance would save time and headaches.  
4 Mr. Cutcliffe.

5 MR. CUTCLIFFE: I would just add that this a  
6 very constructive area to work on in peace time. A  
7 lot of progress has been made in the last couple of  
8 years. I know we've worked with JEA and with OUC,  
9 as well, in the last couple of hurricanes. So  
10 that's a valuable resource. I will say, those  
11 contractors, speaking of, there are some  
12 significant issues in there in terms of liability  
13 and some payment agreements that are worked out  
14 that are important to have properly handled, but  
15 progress is being made in that area.

16 COMMISSIONER BROWN: Thank you. And, Mr.  
17 Puentes, would you like to add anything?

18 MR. PUENTES: Just like our colleagues were  
19 saying, we also participate in that and I, in my  
20 presentation, I gave a little notion to the fact  
21 that sometimes it is difficult to be able to obtain  
22 the number of resources you need because of the way  
23 the hurricane is going and -- but at the end we do  
24 always get resources from the assistance. Thank  
25 you.



1           COMMISSIONER BROWN: Thank you. And I know  
2 we're still on Mr. Bjorklund. So, Commissioners  
3 any, further questions of Mr. Bjorklund? Am I  
4 pronouncing that correctly?

5           MR. BJORKKLUND: You can call me what you like,  
6 just don't call me late to supper.

7           COMMISSIONER BROWN: Thank you. I will.

8           All right. Thank you very much. Seeing no  
9 questions, we will move on to FMEA now.

10          Welcome, Mr. Jody Finklea.

11          MR. FINKLEA: Good afternoon. My name is Jody  
12 Finklea and I have the privilege as serving as  
13 general and regulatory counsel to the Florida  
14 Municipal Electric Association, or FMEA, and I'm  
15 feeling a little bit on the spot here because you  
16 just identified the legalities as being the problem  
17 and now here comes the lawyer.

18          COMMISSIONER BROWN: Always the lawyer.

19          MR. FINKLEA: I had some prepared remarks,  
20 which I'll go to in just a minute.

21          First, if I may, I'd like to speak to mutual  
22 aid directly. Historically in this state we had  
23 barriers in between different segments of the  
24 electric utility industry. IOU's work with IOU's,  
25 muni's and co-op's worked together, but had

1 preference for their own kind.

2 I think over the last several years we've made  
3 tremendous headway in breaking down those  
4 traditional barriers. Through FCG -- following  
5 Hermine and Matthew through FCG, we all came  
6 together as an industry and recognized our shared  
7 goal of getting people back online. And through  
8 the leadership of Clint Bullock initially, who  
9 headed up the FCG mutual aid assistance working  
10 group, and now through the leadership of Lee  
11 Collins with TECO who is now chairing the FCG mutual  
12 aid assistance working group, we have come to a  
13 statewide compact which provides a mechanism by  
14 which investor-owned utilities can provide  
15 assistance to IOU's or co-op's or vice versa. That  
16 was a big step. That was a big step.

17 There are some issues remaining. They largely  
18 deal with risk allocation and liability allocation  
19 and their insurance issues and we're working with a  
20 very large insurance carrier who has provided us an  
21 insurance product by which we can probably solve  
22 those issues. The question, of course, would be  
23 cost. So I think we've made tremendous strides on  
24 that as an industry because we are all trying to do  
25 the same thing, which is to quickly and safely get

1 customers back online.

2 So FMEA. We are a statewide trade  
3 association. We represent of Florida's public  
4 power utilities. There are 34 public power  
5 utilities in the state. Collectively, these  
6 utilities serve approximately 1.3 million customer  
7 meters or about 14 percent of the population of the  
8 state. Our utilities are very diverse in size and  
9 in geography. We go from large systems in north  
10 Florida or central Florida, like Jacksonville and  
11 Orlando, to small systems in the panhandle or in  
12 south Florida, like City of Blountstown or City of  
13 Moore Haven.

14 Each of FMEA's member utilities prepare for  
15 hurricanes throughout the entire year. Our  
16 utilities review and update their internal  
17 emergency disaster plans every year, incorporating  
18 lessons learned. And as local governments  
19 ourselves, we naturally have strong relationships  
20 with other local governmental entities in our  
21 communities, including the local emergency  
22 management officials and emergency operations  
23 centers.

24 Prior to hurricane season, our utilities  
25 participate in preparedness and disaster drill

1 exercises, not just within the particular utility  
2 department, but citywide, and often countywide,  
3 involving police and fire and other emergency  
4 management officials and first responders of both  
5 the city and the county.

6 When county emergency operations centers are  
7 activated during a disaster, many of our utilities  
8 have employees who are staffed inside of the EOC  
9 or, at a minimum, have established direct lines of  
10 communication between the city or county officials  
11 to immediately address any issues as they arise.

12 And, in addition, just as we communicate with  
13 our local emergency management officials before and  
14 during restoration events, our utilities conduct  
15 post-storm assessments and incorporate feedback  
16 from our other local governmental officials on  
17 issues or concerns so that we can make improvements  
18 in the future.

19 For restoration, the safest and quickest  
20 restoration of all customers who can take service  
21 is always goal number one. Our utilities  
22 prioritize restoration as do other electric  
23 utilities with generation and transmission and  
24 substation repairs first, followed by a restoration  
25 of emergency needs facilities and other areas of

1 critical infrastructure -- hospitals, police and  
2 fire stations, lift stations, et cetera. And then  
3 after that crews work, safely restore customers and  
4 generally try to restore customers where the  
5 largest numbers of customers can be restored first.

6 As everyone else has said, this is nothing  
7 new, Hurricane Irma was a storm event like no other  
8 in memory. All 34 public power utilities in the  
9 state were affected by Hurricane Irma, which has  
10 never happened before. At peak, more than 827,000  
11 of our 1.3 million customers were out of power. We  
12 had half of those customers restored in 24 hours.  
13 We were at 80 percent restored in 48 hours, and 98  
14 percent restored in less than a week.

15 Keys Energy Services, or Keys, serves  
16 approximately 28,000 customers in the Lower Florida  
17 Keys. It was ground-zero. It sustained a direct  
18 hit from Hurricane Irma as a category four  
19 hurricane with sustained winds in excess of 120  
20 miles an hour in gusts reported -- or recorded,  
21 rather, of up to 150 miles an hour. There were  
22 approximately 60 Keys employees and some of their  
23 families who volunteered to stay through the storm  
24 in one of Keys two category-five-rated buildings.  
25 They wanted to be there. They wanted to be there

1 so that as soon as conditions were safe they could  
2 go out and begin restoration work.

3 All emergency services in the Lower Keys were  
4 evacuated. The police, the fire, EMS. The Sheriff  
5 unloaded the jail and took them to Miami. These 60  
6 folks were all that stayed. Those brave souls were  
7 left with significant damage to the transmission  
8 and distribution system after the storm came  
9 through. They had no water. They no  
10 communications. And they had no immediate support  
11 from the outside world at all. Within a day or  
12 two, they were able to use a satellite phone to get  
13 a hold of FMEA, but that communication was not  
14 stable. It would often break off after just a few  
15 minutes, and it was not reciprocal. The satellite  
16 phone could be used to call us here in Tallahassee.  
17 We could not call them. And so mutual aid is key.  
18 Mutual aid is key.

19 We have in public power a vibrant mutual aid  
20 network and it's coordinated in the state by FMEA  
21 working directly with our national association, the  
22 American Public Power Association. Twenty-three of  
23 our 34 electric utilities used mutual aid  
24 assistance in Hurricane Irma. We brought in  
25 approximately 2,000 line workers from more than 200

1 individual public power utilities in 26 states and  
2 Canada -- we had some folks speaking French -- plus  
3 contractors to assist us in restoration efforts.  
4 This mutual aid response more than tripled our  
5 standard internal crews. Several public power  
6 utilities are also -- were also called upon and  
7 provided mutual aid assistance to the state's  
8 investor-owned utilities under our new mutual aid  
9 compact, which was signed last year, as  
10 utilities -- municipal, cooperative,  
11 investor-owned -- were all focused on getting the  
12 lights back on safely and quickly.

13 To address storm hardening and undergrounding  
14 for a minute, previous storm hardening and pole  
15 inspection efforts under this Commission's guidance  
16 have proved very worthwhile. Hurricane Irma was a  
17 testament to those storm-hardening efforts with  
18 hardened structures withstanding the destructive  
19 forces of the hurricane much better than other  
20 structures.

21 For example, in the Lower Keys, for Keys  
22 Energy Services, they had to replace ten damaged  
23 transmission poles and 625 distribution poles.  
24 None of those were hardened structures. All of  
25 their hardened structures made it through the storm

1 without damage. Undergrounding has some benefits,  
2 but there are some challenges, too. Tom Ballinger  
3 alluded to this in his earlier presentation. We  
4 have some utilities who have made significant  
5 investments undergrounding large portions of their  
6 system. For example, cities of Winter Park and  
7 Jacksonville Beach, Chairman Graham, your old  
8 stomping grounds, have made significant advances  
9 undergrounding. They're approximately 80 percent  
10 undergrounded, but those portions that were  
11 undergrounded received less damage, but it's not  
12 fool-proof. Water intrusion from flooding, along  
13 with all the stuff that water brings down into the  
14 cabinets and to the underground facilities and  
15 uprooted trees still did result in some failures of  
16 underground systems, and while those outages  
17 weren't as prevalent, they were longer in  
18 restoration periods generally.

19 So restoration impediments. Despite  
20 everyone's best efforts, there were some  
21 impediments to restoration during Hurricane Irma,  
22 as well. Severe traffic delayed crews from out of  
23 state that were arriving immediately following the  
24 storm. Of course, this was a result of the  
25 millions of evacuees also trying to return home.



1 Fuel shortages along the major highways also  
2 imposed impediments on getting crews to their  
3 locations in a timely manner. And Keys Energy  
4 Services had their very own particular restoration  
5 challenges in that each island is connected by a  
6 bridge. Those bridges were shut down for the  
7 hurricane and before they could be re-opened to  
8 vehicular traffic, each of them, and you know there  
9 were hundreds, each of them had to be inspected so  
10 that they could be used again.

11 Communications during any major outage event  
12 is critical. Hurricane Irma was no exception. The  
13 way utilities communicate with customers today is  
14 not the same as communication with customers ten or  
15 five or even two years ago. For Hurricane Irma,  
16 our utilities were fully engaged on several social  
17 media platforms to communicate with our customers,  
18 through Facebook, through Twitter, through Next  
19 Door, sharing outages and restoration information  
20 as well as responding to customer inquiries in  
21 addition to using all the traditional means of  
22 communication through the media and text alerts.

23 The City of Tallahassee did something very  
24 notable in Hurricane Irma. Taking lessons learned  
25 from Hurricane Hermine, their customer service

1 agents went out to all of the nursing homes and  
2 assisted living facilities here in the City of  
3 Tallahassee. The purpose was to ensure that each  
4 of those facilities had a personal contact with the  
5 city so that they could call and ask questions.  
6 They emphasized to these customers that the power  
7 could be out for several days and they provided  
8 some proactive advice on how to deal with long  
9 outages in an emergency. So building on those  
10 lessons learned is what we do.

11 And so we have three recommendations. In  
12 closing, FMEA would like to recommend these three  
13 improvements: First, following the storm in mass  
14 evacuations, there needs to be a plan in place for  
15 how to balance, coordinate and prioritize traffic  
16 to support utility restoration efforts. You know,  
17 practical considerations could be designating  
18 particular lanes, or those kind of things. Second,  
19 fuel for ingress routes needs to be available and  
20 designated for responding mutual aid crews. Third,  
21 consideration should be given for how to implement  
22 emergency communications on a statewide basis. As  
23 I mentioned earlier, Keys was not able to  
24 communicate with anybody for days except for on a  
25 spotty basis using a single phone, which required

1           you to be outside. A strong backbone for  
2           communications following the storm is essential.

3           And so, if I may, having the benefit of going  
4           last and having heard many of the questions, I'd  
5           like to address just a couple. Commissioner  
6           Polmann and Commissioner Clark both asked, if I can  
7           take them correctly, essentially what can we do for  
8           you, what can the state do for you. And I will  
9           tell you that you are critical folks in the state  
10          of Florida. You are policy leaders, statewide  
11          commissioners, and anywhere that you have  
12          interaction with other branches of government or  
13          with other agencies within the state, if you could  
14          communicate the need to prioritize restoration work  
15          that's going on in the aftermath of a hurricane or  
16          any kind of emergency event, that's a tremendous  
17          value to this industry. The troopers are worried  
18          about getting people safely on the roads. The  
19          Governor is worried about making sure that the  
20          citizens of the state are cared for and know the  
21          state is open for business. DOT is worried about  
22          clearing debris. No one specifically is the  
23          cheerleader for the restoration efforts that have  
24          to go on and the back-up work bringing people out  
25          of state, or moving people in state to get that

1 restoration work done. And that role, wherever you  
2 are, wherever you can speak, with whomever you are  
3 speaking in other agencies and other branches of  
4 government, I think, is critical for us.

5 COMMISSIONER BROWN: I just have to say, I do  
6 think we are the cheerleader, so thank you for that  
7 piece of advice and we will absolutely heed --  
8 listen to it and take that with us.

9 MR. FINKLEA: You do a tremendous job in that  
10 already, but that really is, from our perspective,  
11 key. Mutual aid's been a big discussion and I  
12 started with that, but let me mention also mutual  
13 aid. At our FCG mutual aid workshop, just a couple  
14 weeks ago, we understood that mutual aid is not  
15 traditional line crews only anymore. Mutual aid  
16 can come in the form of call center assistance.  
17 Mutual aid can come in the form of assessors.  
18 Mutual aid can come in the form of engineers and  
19 even managers. There are now mutual aid -- there  
20 is now a recognition -- excuse me -- now a  
21 recognition that you don't just need line crews,  
22 but you also may need managers to coordinate those  
23 line crews or assessors to go out and find what  
24 needs to be fixed. And so mutual aid is being used  
25 now in a broader sense than I think it has been

1 before and that's for the benefit of the state.

2 And, finally, I would say, Chairman Brown, you  
3 spoke several times about customer communication.  
4 There is no more important role for a utility,  
5 besides getting the lights back on, than  
6 communicating effectively with our customers. That  
7 is a lesson learned over and over again and one  
8 that our utilities from the municipal side always  
9 are striving to improve upon through our social  
10 media outlets and through traditional media and  
11 through customer contacts directly as I mentioned  
12 with the City of Tallahassee. We are always  
13 working to improve those customer communication  
14 roles.

15 You know, I do a lot of traveling around the  
16 state and I've stood in front of the Shell gas  
17 pumps on the Okahumpka Turnpike gas station a  
18 number of times and watched the video that shows --  
19 public service announcement that shows the lights  
20 and sirens. Says, you know, if you see lights or  
21 sirens, you best get over. You know, maybe -- and  
22 this goes to Commissioner Polmann's point, about  
23 how do we communicate with customers. Maybe if the  
24 State wanted to look at -- Commission wanted to  
25 look at doing public service announcements about

1 trimming outside of the right-of-way or being  
2 cognizant of the types of trees you grow around  
3 power lines or those sorts of things, I think you  
4 have a tremendous opportunity. You do a tremendous  
5 job of this already, but you have a tremendous  
6 opportunity to communicate directly with our  
7 customers in a way that's complementary to the way  
8 that we do.

9 So, with those recommendations and those  
10 answers to the questions I've heard, I'd be happy  
11 to take any questions. Thank you.

12 COMMISSIONER BROWN: Thank you. Excellent  
13 suggestions, as well. Commissioner Polmann.

14 COMMISSIONER POLMANN: Thank you, Madam Chair.  
15 It was striking to me, the Key West experience with  
16 one satellite phone. That's just remarkable. And  
17 you mentioned the mutual aid being more than line  
18 workers. Is there a clear aspect of that that  
19 includes equipment? And that's one question. You  
20 know, who brings the satellite phones with them  
21 when they come, but even more importantly, why  
22 would it not be the case where all the utilities  
23 would have something like that?

24 MR. FINKLEA: And, Commissioner Polmann, they  
25 have more than one, but their connectivity was

1           pretty poor. They had one that worked more  
2           reliably than others. You asked the question about  
3           bringing equipment. It's a critical question. We  
4           actually relied on our colleagues at FPL to assist  
5           us with some drones. The main transmission line  
6           that goes from Florida City down to Seven-Mile  
7           Bridge which starts the Keys system kept faulting  
8           after the power was restored. We couldn't figure  
9           out why. We realized we were looking at it from  
10          the wrong perspective. We were looking at it from  
11          the ground-up. FPL brought down some drones for  
12          use through mutual aid and when we overflowed with  
13          drones, we realized they had insulators that had  
14          shorted out. We could have only seen that from the  
15          air. And so mutual aid for equipment provision --  
16          or provision of technology that some of our cities  
17          frankly are not big enough to afford on their own  
18          is a key role. And, again, all of us work together  
19          in the state to get those things done.

20                    COMMISSIONER POLMANN: And to that point, you  
21                    mentioned assessors or engineers. It occurs here  
22                    in that example, as well, that may be the  
23                    particular type of knowledge or expertise that you  
24                    wouldn't normally need, bringing that into the  
25                    point of drone or other type of more specific

1            analytical equipment or testing equipment or  
2            something to that effect. I don't know, but it may  
3            have been helpful in identifying a fault, something  
4            like that. I'm just -- I mean, just an example. I  
5            don't know even know a specific, but something like  
6            how do we find a problem that occurred may be a  
7            special case, but certainly it's been mentioned  
8            bringing in technical expertise that are not the  
9            line workers. I think it's a very interesting  
10           discussion. Thank you for the Keys example.

11                    COMMISSIONER BROWN: Commissioner Fey followed  
12                    by Commissioner Clark.

13                    COMMISSIONER FEY: Thank you, Madam Chair.  
14                    Mr. Finklea, I was listening to your comments and  
15                    some of it was -- I was getting a bit frustrated  
16                    and then you started talking about drones and I  
17                    couldn't be mad anymore so that was a good strategy  
18                    on your part.

19                    So when you make your recommendations, I think  
20                    one thing that's helpful for us as a Commission is  
21                    some of the specific hurdles that apply to those  
22                    recommendations, so if there are improvements for  
23                    communication for areas that you're speaking about  
24                    that may help assist in a relief effort, that's a  
25                    pretty broad recommendation and so I think if you



1           could -- you could help us understand what specific  
2           hurdles or burdens stopped you from getting those  
3           resources or prevented you from being able to get  
4           those things that you need, then I think it would  
5           give us a better idea as a Commission what might be  
6           appropriate for within our jurisdiction to do.

7                   MR. FINKLEA:  Yes.  Certainly.  And we've  
8           worked with staff and we will work with staff in  
9           narrowing the recommendations for things that are  
10          within your jurisdictional grasp, but our -- we  
11          often find that our problems are in a larger  
12          magnitude and they don't deal directly with the  
13          electric utility operations, but they deal with  
14          what we have to get around or encounter to get to  
15          getting the operations stuff done.  So we'll work  
16          with your staff on doing that.  Absolutely.

17                   COMMISSIONER FEY:  Thank you.

18                   COMMISSIONER BROWN:  All right.  Commissioner  
19          Clark.

20                   COMMISSIONER CLARK:  Thank you, Mr. Finklea.  
21          In regard to your operation, you're unique in the  
22          fact that you have a body that you're accountable  
23          to, to an electric, but you have some systems that  
24          have quite a number of consumers, I would say, that  
25          are outside of the city municipal areas that I am

1 concerned about their interest, as well. How do  
2 you feel that your organization would feel about  
3 having someone from each of the municipalities  
4 inside the EOC during a major disaster?

5 MR. FINKLEA: Many of our cities do have folks  
6 who are staffed inside of an EOC, unless it's a  
7 city that has such a small staff that we'd be  
8 taking away someone from some critical restoration  
9 effort. Also, many of our city employees are  
10 closely connected with the EOC in their local  
11 counties because on other matters the cities and  
12 the counties closely work together. Our  
13 connectivity with the EOC is, I would say, a fairly  
14 comprehensive and year-round. It really doesn't  
15 start or stop with storm season, but it goes  
16 year-round in all of our communities.

17 COMMISSIONER CLARK: And how do you  
18 coordinate your priority efforts in working with  
19 the county in terms of the city, those that are  
20 inside your municipal areas versus those that may  
21 be in a county area?

22 MR. FINKLEA: Commission Clark, I won't kid  
23 you. That's sometimes a challenge. There are  
24 those who have priorities and then there are others  
25 who have to do the work who have priorities, but

1           our relationships with local government are very  
2           good. Often we are the local government and so we  
3           can always come to commonality. I'll give you a  
4           quick example and it was in the data request that  
5           was submitted in response to Staff's Data Request  
6           leading up to this. Leesburg, City of Leesburg,  
7           which has the Villages that abut it, had a  
8           significant problem with traffic in restoration  
9           efforts because as soon as the storm passed,  
10          everybody got on their golf cart and they came out  
11          to see what was going on. Right. So you had a  
12          line crew that's there trying to restore a  
13          transformer and you've got three people in golf  
14          carts running around the truck.

15                    COMMISSIONER BROWN: Real smart.

16                    MR. FINKLEA: Yeah, so we had to get -- we  
17                    had -- we called the police department, the  
18                    Leesburg Police Department, said please, please  
19                    come over here and help us. And so then they  
20                    started assigning police officers with each crew  
21                    that was going out and doing restoration work and  
22                    it tremendously sped up the restoration efforts.  
23                    And so that's an example of the close coordination  
24                    we have.

25                    COMMISSIONER CLARK: Thank you very much.

1 MR. FINKLEA: Yes, sir.

2 COMMISSIONER BROWN: Commissioners, any other  
3 questions? If not, that concludes the utility  
4 presentations and at this time. Folks in the  
5 audience and everyone here, staff will be  
6 conducting questions of the utilities. And if you  
7 could break it down utility by utility, that would  
8 be helpful. Commissioners, you are not limited  
9 from asking questions at any time. Just let me  
10 know and you can jump on in there, as well.

11 MR. BALLINGER: Commissioner Brown, just so --  
12 a little bit. What staff has done is arrange the  
13 questions by topic areas.

14 COMMISSIONER BROWN: Oh, okay.

15 MR. BALLINGER: So we're going to go various  
16 utilities, but please feel free to jump in whenever  
17 you want. We found it a little easier to organize  
18 our questions that way.

19 COMMISSIONER BROWN: Okay. That works. I  
20 think I have a copy, too, so thank you. We'll  
21 follow along. Does anybody need to take a break  
22 before we get into the staff questions?

23 All right. We'll go ahead. Please.

24 MS. KING: Good afternoon. I'm Laura King  
25 with Commission Staff with the Division of

1           Engineering and my first few questions are for  
2           Florida Power & Light. Good afternoon, Mr. Olnick.

3           MR. OLNICK: Good afternoon.

4           MS. KING: My first question is on slide 12 of  
5           your presentation. You show that FPL restored  
6           approximately 50 percent, or 2.2 million accounts,  
7           within one day following Irma and I was wondering  
8           if you could tell us what type of repairs or  
9           actions were taken to accomplish this task in one  
10          day.

11          COMMISSIONER BROWN: Laura, could you speak up  
12          a little bit? I know it's being transcribed and it  
13          would be helpful to --

14          MS. KING: Would you like me to repeat the  
15          question?

16          COMMISSIONER BROWN: Yes, please.

17          MS. KING: I'm sorry. Looking at slide 12 of  
18          the presentation, FPL showed that it restored  
19          approximately 50 percent, or 2.2 million accounts,  
20          within one day following Irma, and I was asking if  
21          they could please tell us what type of repairs or  
22          actions were taken to achieve that goal of 50  
23          percent in one day.

24          MR. OLNICK: Yes. Certainly. So as is  
25          typical in the first day of a storm, the kinds of

1 repair work that you can do is minimal, so the  
2 approach is to try to leverage technologies, like  
3 automated feeder switchings, data and so forth, to  
4 try to isolate a damaged line section so that you  
5 can bring the remaining portion of a good line  
6 section into service.

7 So the restoration, what I'll call the  
8 restoration curve, during usually the first day or  
9 two, is rather rapid because the goal is to try to  
10 not get into what we'll call heavy lifting repair  
11 work, but do the minimal repair work that you need  
12 do to restore the most amount of customers you can.  
13 And so that is -- that is really our goal. We'll  
14 leverage as much automated technology as we can,  
15 combined with manual switching and that -- the key  
16 to a lot of that, too, is we deploy our line  
17 resources in hardened facilities that we'll call  
18 storm riders around the state. So that, as soon as  
19 a storm passes and the winds have subsided enough  
20 that you could raise a bucket truck in the air, we  
21 are restoring as quickly as possible. And so  
22 that's the kind of work that you'll do.

23 You'll typically go to the first line section  
24 that's damaged on a main line. You may open a  
25 switch, remotely restore the front end of the line,

1 and then go to the next damaged section. So the  
2 very first day or two is all about trying to get  
3 the most amount of customers restored as you can,  
4 and that's typically what we've done in that case.  
5 There was some minor repair work. It could be  
6 things like splicing quickly to get one line  
7 section up, but it's usually not the heavy  
8 pole-setting kind of stuff that you would do the  
9 first day.

10 MS. KING: Thank you. My next question is a  
11 clarifying question with response to one of our  
12 data requests that we had asked. It's regarding  
13 our First Data Request and it's specifically  
14 Question No. 7, and it's specifically related to  
15 Irma, and this deals with your number of crews and  
16 incident commanders. You guys noted in that  
17 response that you had 29 incident commanders  
18 working with approximately 230 crews each, which is  
19 over 6,600 crews. Could you tell me how many  
20 employees typically make up a crew?

21 MR. OLNICK: We had 29 incident commanders  
22 because we had 29 staging sites. So a staging site  
23 is a location that can have many, many hundreds of  
24 personnel, line workers, engineers, patrollers, and  
25 the incident commander is the person that's in

1 change of that site. So the structure under that  
2 incident commander would typically have, let's call  
3 it, deputy incident commander, section planning  
4 chief, and then usually about anywhere from, let's  
5 say, five to ten what we'll call production leads,  
6 or they're field supervisors that would be managing  
7 the crews themselves. And so in Irma we had, I  
8 think, in excess of maybe 130 production leads  
9 supporting the 29 incident commanders.

10 Now, within a staging site, besides the  
11 production leads, which a production lead might  
12 supervisor 75 crews, let's say, within a crew you  
13 would also have -- you would also have foremen and  
14 lower-level foremen's managing parts of that crew.  
15 So in a structure like that, that's kind of the  
16 overall way we do it. And I think there was a  
17 second part of the question. I'm not sure if I got  
18 to it.

19 MS. KING: No, you answered my question about  
20 how many typically make up the crew, but I do have  
21 a follow-up --

22 MR. OLNICK: I'm sorry. You asked how many  
23 make up a crew.

24 MS. KING: Typically, yeah.

25 MR. OLNICK: So typically at Florida Power &



1 Light we refer to a crew is two to three person,  
2 linemen and linewomen as one crew, but it is not  
3 uncommon for a contract crew to have four to five  
4 personnel so it just all depends on -- if it's  
5 typically the utility in our case, it's two to  
6 three workers, but sometimes a contract crew, it's  
7 not untypical to have a four- to five-person crew.

8 MS. KING: Okay. And you note in that  
9 response that your incident commanders typically  
10 have about, on average, 12 years-plus of  
11 experience. How many incident commanders does FPL  
12 currently have? Is 29 about it?

13 MR. OLNICK: No. No. We used -- I used 29  
14 during that event, but our incident commanders are  
15 typically individuals that their day-to-day job is  
16 somewhat similar in managing a large area service  
17 center, state line workers, engineers. Throughout  
18 the experiences we've had in not only Irma, but  
19 many other hurricanes over the years, we probably  
20 have well over 50, what I would call trained  
21 qualified and experienced incident commanders.  
22 It's not always age that defines that capability.  
23 It's really a knowledge and experience. I would  
24 say on average 12 is probably a good number. We  
25 have incident commanders that may be in the

1 ten-year range that could be in the 30 years of  
2 experience, but I would say 12 is probably a good  
3 average number.

4 COMMISSIONER BROWN: Laura, Commissioner  
5 Polmann has a question.

6 COMMISSIONER POLMANN: Thank you, Mr. Olnick.  
7 We were referring to incident commander. This is a  
8 designation within the incident command system and  
9 that is a standards type of organizational  
10 structure that comes from FEMA, is that correct, or  
11 from -- it originated there?

12 MR. OLNICK: It is. It's the same incident  
13 command structure that's used. When it's referred  
14 to an incident command structure here within the  
15 state, FEMA, Department, it's pretty much the  
16 standard incident command structure.

17 COMMISSIONER POLMANN: In fact, that's used  
18 across the country, as far as I know. So the  
19 incident commander is a person, as you just  
20 indicated, is trained specifically for that  
21 assignment. And that will change over the course  
22 of a day. Now, that with -- below that could be  
23 many, many people. Each one of those persons is  
24 trained for a specific level of assignment, is that  
25 correct?

1 MR. OLNICK: Correct.

2 COMMISSIONER POLMANN: And even a line worker  
3 within the incident, whatever their assignment type  
4 is going to be, is that person also trained within  
5 the command system, as well as their actual  
6 day-to-day job assignment?

7 MR. OLNICK: So within a typical site that we  
8 would, we use the incident command structure and I  
9 would say the worker level, which we're referring  
10 to as the line worker. You know, that is the  
11 working level, but from the incident commander, it  
12 is a very formal structure that we follow and it's  
13 important because I could be an incident commander  
14 at a site in Daytona and halfway through a storm, I  
15 get reassigned because we've completed our work and  
16 now we have to go to a new site. And so you have  
17 to be prepared to not just know a site, but know  
18 the structure. And so many of my incident  
19 commanders have worked many, many sites here in  
20 Florida and around the country, but to have a  
21 similar structure in process, it ensures that  
22 everybody knows what their role is no matter where  
23 they're at.

24 COMMISSIONER POLMANN: Would there be  
25 occasions where an entity other than the electric

1 utility would take command and, for example,  
2 depending on the nature of what's going on there,  
3 law enforcement agency or some other agency would  
4 come in and take over?

5 MR. OLNICK: Well, what we've done, and I  
6 think was referred to earlier, which I think is  
7 something to talk about as far as mutual  
8 assistance, you can reach a point where you may  
9 need additional incident command structure outside  
10 of your utility.

11 And so within -- when we had Irma, for  
12 example, we actually reached out to six other  
13 utilities through mutual assistance and they  
14 brought in their entire incident command structure  
15 to help supplement ours in some locations because  
16 we were moving rather rapidly. So it is a benefit  
17 to use that structure throughout the industry so  
18 that we can support each other. We haven't had a  
19 case where we've used the military, although in  
20 Irma the National Guard was a very big help to us  
21 in many ways. They played a key role, but from a  
22 restoration and electrical restoration response, we  
23 found it a little bit more beneficial to leverage  
24 the entire industry and the incident command  
25 structure throughout the industry.

1           COMMISSIONER POLMANN:  And everybody uses that  
2           same system so there's a seamless --

3           MR. OLNICK:  I wouldn't say everybody, but I  
4           thank it has become over the years a little bit  
5           more standardized.  Some may refer to a role  
6           slightly different than others, but it's become  
7           more of a standard mode of operation only because  
8           utilities, when they're working with the state EOC  
9           or local EOC, most of them have chosen to go to the  
10          incident command structure so it's just when you  
11          all speak the same language and all know what each  
12          other's role is, it makes the whole process run  
13          smoother.

14          COMMISSIONER POLMANN:  Is the use of that  
15          system something that you or your counterparts  
16          would suggest be mandated?  I'm not -- I don't know  
17          to what extent it's not used.  Would it be helpful  
18          if it was a requirement?

19          MR. OLNICK:  I'm not sure in this case if a  
20          retirement -- if a mandate was really required.  I  
21          think what you're finding is throughout this  
22          industry, and I think others, is we work with all  
23          of the other first responder agencies, everybody is  
24          speaking the same language now.  So I think we've  
25          all naturally migrated there.  I'm not sure if it's

1 something I would even recommend that we push for  
2 any kind of a regulation type standpoint. I think  
3 all the first responders industries are tending to  
4 go that way.

5 COMMISSIONER POLMANN: Thank you.

6 COMMISSIONER BROWN: All right. Laura.

7 MS. KING: Thank you. I just had one other  
8 follow-up question along those same lines.  
9 Obviously incident commanders and those under them  
10 have tremendous responsibility and it would seem  
11 like you would need to have some type of plan in  
12 place for succession planning for the personnel,  
13 you know, as the workforce ages, et cetera. Can  
14 you tell us a little bit about that?

15 MR. OLNICK: We do. And it is such a key role  
16 and part of being an incident commander is really  
17 understanding the role, is a very key leadership  
18 role in a very confusing time. And so part of our  
19 entire kind of development and succession planning  
20 process looks for that. One of the things that we  
21 do, for example, when we do have an incident like  
22 Irma or any disaster that we're supporting here in  
23 Florida, or another state or another territory, we  
24 always take that opportunity to leverage employees  
25 to give them experience that they may not have had

1 a chance to get here.

2 So, for example, we were fortunate to go  
3 almost ten years without having a natural disaster  
4 here and a named hurricane, but over that ten-year  
5 period we responded to many around the country,  
6 from Super Storm Sandy to events in Texas, to  
7 Alabama, to Georgia to many other places prior to  
8 Hurricane Irma hitting. And so we try to take  
9 every opportunity we can to make sure that we're  
10 continuing that succession planning and that, you  
11 know, truly it should never be people to a person  
12 dependent and that it is part of all of our  
13 leadership training.

14 All of our incident commanders go through  
15 rigorous, not just leadership training, but  
16 critical thinking training to ensure that any kind  
17 of moments of crisis like that, you know how to  
18 make decisions. Some of that is even based on some  
19 military training, just to understand how you can  
20 make decisions in really critical times.

21 MR. KING: Thank you. That's all the  
22 questions I have for Florida Power & Light.

23 COMMISSIONER BROWN: Thank you.

24 Commissioners, any questions of Florida Power  
25 & Light?

1 All right. Continue, Laura, please.

2 MS. KING: Thank you. I have some questions  
3 for Duke. Good afternoon. Again, I'm looking at  
4 Staff's First Data Request, Question 7, and  
5 specifically as it relates to Hurricane Irma and it  
6 would be -- let me start with the same question  
7 about your succession and planning for your zone  
8 and transmission incident commanders. Could you  
9 give us a little information on that, please?

10 MR. CUTCLIFFE: Certainly. So our incident  
11 command roles are filled by general managers. It's  
12 a position within our organization and so the  
13 succession for those roles occur naturally within  
14 the organization as people move up in levels of  
15 management, get experience, and then that is  
16 training for them to move into those IC roles.

17 MS. KING: Okay. Thank you. Yeah, I saw --  
18 you noted on average your incident commanders have  
19 over 30 years of experience so that's quite a bit  
20 of experience. And I want to look specifically --  
21 there was a table you provided us that addresses  
22 Irma crews. Are the numbers shown in that table  
23 the number of employees or the number of crews?

24 MR. CUTCLIFFE: Employees, individuals.

25 MS. KING: Okay. That's individual, which is



1 about a little over 14,000. And that was managed  
2 by five incident commanders. So how many crews is  
3 that roughly per incident commander?

4 MR. CUTCLIFFE: The number of individuals per  
5 crew varies by -- we found different contractors  
6 view it differently. And, honestly, one of the  
7 lessons from us a few years ago was in order to get  
8 bed counts right and meal counts right, we had go  
9 to how many people are in these contingents.

10 So in order to provide the correct or the  
11 appropriate oversight of those resources, one of  
12 the advantages of the ICS is it's so scalable, we  
13 have a role -- a field coordinator role that's in  
14 our plan. We have a target of 30 to 50 field  
15 workers per field coordinator. And as has been  
16 mentioned before, it's a standard role. In fact,  
17 we being part of Duke Energy and a six-state  
18 utility, we had two chartered aircraft come to  
19 Florida with 125 field coordinators who could  
20 oversee the workers as we added, you know, to our  
21 restoration workforce. And so underneath those  
22 incident commanders, what cascaded it is, the  
23 number of those field roles that kept a target  
24 ratio of the number of folks that they were  
25 overseeing.

1 MS. KING: Thank you. That's all the  
2 questions I have for Duke.

3 COMMISSIONER BROWN: Thank you.  
4 Commissioners, any questions?

5 All right. Please continue.

6 MS. KING: Okay. Tampa Electric. Good  
7 afternoon, Mr. Haines.

8 MR. HAINES: Good afternoon.

9 MS. KING: Again, I'm looking at the same  
10 Staff First Data Request, question No. 7, and I'd  
11 like to talk to you a little about your crews. You  
12 said that your restoration personnel were  
13 responsible for managing 684 crews. Can you tell  
14 me about how many individuals that is?

15 MR. HAINES: Right. So when I mentioned we  
16 had 3,400 foreign crews -- foreign resources come  
17 and help us, that included, you know, mutual  
18 assistance we have for vegetation management,  
19 damage assessment's been mentioned, call center  
20 assistance. So the 684 crews, are just line crews.  
21 Right. They're out restoring on the distribution  
22 system. And so -- in the presentation I think I  
23 broke it down. I think we had roughly 2,400 line  
24 workers, so that would be, you know, linemen,  
25 utility workers, flaggers, anybody that came with

1           those foreign crews to come help. So roughly three  
2           to four people per crew.

3           MS. KING: Okay. Thank you. It appears that  
4           the staff managing the crews, you guys note that  
5           they have on average more than 26 years of  
6           experience, and this is a similar question that I  
7           asked the others. With the aging workforce, what  
8           succession planning does your company have in place  
9           to replace these managers?

10          MR. HAINES: Right. And similar to what's  
11          been said, the incident base commanders are usually  
12          the operation center managers that are familiar  
13          with that area. You know, they manage line crews  
14          everyday. And the 26 years of experience average  
15          is just kind of industry experience. And so we  
16          have a succession plan that we review every year  
17          and, you know, the feeder pool for those positions  
18          could be linemen that work their way up through  
19          supervisor, leadline supervisor, and then  
20          eventually can become an operations manager, or it  
21          could be an engineer that gets into distribution  
22          operations or distribution engineering.

23          And we have a pretty robust rotation program  
24          where we move engineers around, supervisors around,  
25          to give them those different experiences because

1           it's not just the experience and the skill, but  
2           it's the leadership, too, that's needed to really  
3           run those incident bases and they have to be able  
4           to make that decision-making pretty independent of  
5           getting a lot of direction. So you want to make  
6           sure that they've got the skills, the experience  
7           and the leadership.

8           MS. KING: Thank you very much. That's all I  
9           have. Thank you. And -- I'm sorry. I have a few  
10          questions for Mr. Puentes with FPUC.

11          COMMISSIONER BROWN: Certainly.

12          MS. KING: Good afternoon. You guys note in  
13          your response to Staff's First Data Request  
14          Question 7 that for Hurricane Irma you had an  
15          assistance -- assistant operations manager for the  
16          northeast and northwest divisions, as well as a  
17          safety coordinator for the northeast and northwest  
18          divisions. Are those individuals interchangeable?  
19          If someone from the northeast division wasn't  
20          available, could they go help out in the northwest  
21          to --

22          MR. PUENTES: Yes, that is correct. The  
23          individuals that are the assistant operation  
24          managers are able to exchange with each other. We  
25          work very closely together. As a matter of fact,

1 both divisions are managed by one director of  
2 electric operations and he -- working with his  
3 team, we'll make decisions as to where -- like I  
4 was telling him at the beginning, where the  
5 resources should go, but, yes, they're  
6 interchangeable. Both the operations and the  
7 safety coordinators, too.

8 MS. KING: Thank you. And I notice you guys  
9 show that only one engineer position is listed.  
10 Would that engineer be shared by both divisions?

11 MR. PUENTES: What we were trying to respond  
12 on that question is how many crews those  
13 individuals were addressing, and that engineer was  
14 handling ten crews. However, we have other  
15 engineers that are in staff that support both  
16 divisions. So maybe -- does that help clarify what  
17 you're trying --

18 MS. KING: Yes, it does. Thank you. And  
19 that's all I have on preparation and restoration  
20 efforts. And I believe Mr. Brennan is up next with  
21 questions.

22 COMMISSIONER BROWN: Thank you.

23 Commissioners, do you have any further  
24 questions on this topic? Seeing none.

25 Hi, Jim.

1           MR. BREMAN: Hello. First question for FPL  
2 is, can you please describe the process for  
3 industry inventory control of facilities during  
4 restoration efforts.

5           MR. OLNICK: So the process for inventory  
6 control on really the restoration efforts starts  
7 with a template that we've developed with kind of  
8 pre-packaged construction materials and they are  
9 shipped in kind of pallet containers to staging  
10 sites in an amount that ensures that by day one  
11 there is enough of the typical material that is  
12 needed by day one, or two, to be utilized by who is  
13 at that site.

14           We typically have that material delivered, in  
15 Irma's case, to about ten of the sites, almost a  
16 day or two ahead of time once we've identified  
17 where the sites are and we're pretty confident of  
18 the path, and there's some risk there, but we'll  
19 deliver that material. And so that material is  
20 used as the initial piece of inventory.

21           At each one of those staging sites, kind of  
22 part of the incident command structure requires for  
23 an inventory specialist that's there that is  
24 usually supported by, depending on the size of the  
25 site, anywhere from, let's say, one to five

1 inventory services specialists. And then  
2 throughout the subsequent days, as whether they're  
3 FPL or contract crews, if they're required to  
4 obtain additional material, whether it's major  
5 material, pole transformer, or minor material such  
6 as connectors and so forth, they'll check that out  
7 through the inventory services individuals that are  
8 there. And then at the conclusion of the event, as  
9 resources are released from the site, any excess  
10 material is collected by that lead inventory  
11 service and his support inventory services  
12 individuals and accounted for. And then when -- at  
13 the very end of the storm, then we reconcile all of  
14 the material that has been issued to everything  
15 else that has been returned, so that's kind of a  
16 high level of how we do inventory kind of control  
17 during the restoration process.

18 MR. BREMAN: Next question has to do with  
19 Staff's Third Data Request, No. 7. FPL responded  
20 that there was a significant reduction in hardened  
21 feeder pole and transmission structure failures and  
22 that hardened distribution feeders performed  
23 significantly better than non-hardened, and I think  
24 that was on one of the slides. Is there  
25 quantitative data that supports this conclusion

1 other than the forensic report?

2 MR. OLNICK: I believe all of the quantitative  
3 data was supplied in the forensics report, and I  
4 think there was some other data responses that was  
5 supplied, too. At least in my records here I show  
6 that not only the forensics report, but in one of  
7 our supplemental responses, Data Request 29, and  
8 then another Data Request No. 4, I think we  
9 responded to that. And the -- as I did mention in  
10 my remarks the -- both in the transmission arena  
11 for both Matthew and Irma, it was zero failures for  
12 hardened poles. Matthew it was zero in  
13 distribution and for Irma we had 26 hardened pole  
14 failures.

15 COMMISSIONER BROWN: Jim, I think --

16 MR. OLNICK: I think that equates to .02  
17 percent.

18 COMMISSIONER BROWN: Pardon me for  
19 interrupting. Commissioner Polmann has a question  
20 for you.

21 COMMISSIONER POLMANN: Thank you Madam  
22 Chairman. We've had quite a bit of mention of  
23 hardened versus non-hardened. I'm simply  
24 uninformed about what constitutes hardened and it  
25 will be specific, perhaps, to the type of



1           infrastructure. I guess my question is to any of  
2           the utilities, but it's your turn, and then to  
3           staff can maybe provide me some follow-up later,  
4           but are there degrees of hardening of particular  
5           type of infrastructure? And not to get into all  
6           the details here, but maybe just a point of  
7           clarification. If you're replacing a pole, then I  
8           think that's fairly obvious, but what constitutes  
9           hardening in general? I mean, can you harden  
10          something a little bit or a whole lot or is it just  
11          yes or no?

12                 MR. OLNICK: I'll answer with one of those, it  
13                 depends, but I'll try to be brief. The pole  
14                 strength and design is based on National Electric  
15                 Safety Code and there are different levels of  
16                 strength categories that will withstand certain  
17                 levels of wind. Category C, B and something we  
18                 call extreme wind loading. Back in 2007, Florida  
19                 Power & Light chose to elevate its design to  
20                 extreme wind loads -- extreme wind loading. So  
21                 every pole that we purchase now meets our design  
22                 criteria for that strength of a pole. I think the  
23                 difference from a clarification standpoint is when  
24                 we refer to a hardened feeder, that feeder has been  
25                 designed and strengthened and reviewed every single

1 pole to meet extreme wind load loading for the  
2 entire feeder. And that could also mean adding  
3 additional things like added span guys and other  
4 things. So it's just behind poles and lengths of  
5 sub-poles.

6 As we have been building any new construction,  
7 or anything using a pole since 2007, it's using now  
8 a pole that meets extreme wind loading, but until  
9 that entire feeder has been designed and reviewed,  
10 to be called a hardened feeder, every pole had to  
11 be analyzed. So that's the difference between  
12 calling something just a hardened pole and a  
13 hardened feeder. It's a system. And every pole  
14 that we have been replacing or installing since  
15 2007 meets the pole criteria. Now it just needs to  
16 become part of a system. Did that help?

17 COMMISSIONER POLMANN: Okay. There would also  
18 be the case of replacing underground cabinet that  
19 was open-end. You would obviously upgrade that to  
20 the current technology and things like that. There  
21 was an example here earlier where you don't own a  
22 pole in a run that you use as a feeder so there's a  
23 weak link there and that needs to be dealt with,  
24 but I appreciate your explanation. That was very  
25 helpful, so thank you.

1           MR. OLNICK: Could I also add that when we do  
2           hardened a feeder, I don't want to leave it on the  
3           perception that we leave a non-FPL pole there  
4           unhardened. So when we have a process where we're  
5           going through and that feeder was designated to be  
6           hardened then every pole on that feeder gets  
7           hardened and if there is -- if there is a different  
8           utility telephone pole on there, we will harden  
9           that and exchange that with that telephone, or  
10          whoever owns it, with another one somewhere else.  
11          So I just want to make that point of clarification.

12          COMMISSIONER POLMANN: Thank you.

13          COMMISSIONER BROWN: Jim.

14          MR. BREMAN: Thank you. For Duke, could you  
15          please describe the process of inventory controls  
16          during hurricane restoration efforts?

17          MR. CUTCLIFFE: Sure. And I'll speak to two  
18          different, I guess, lines of business that -- the  
19          transmission and substation inventory control and  
20          then the distribution inventory control. In both  
21          cases it's really a streamlining of normal business  
22          processes. So in transmission and substation  
23          equipment is much more complex and highly  
24          engineered and so what's done is the work order  
25          process is used in order to charge equipment to a

1 work order and track its use. That process is  
2 expedited and streamlined so it happens very  
3 quickly.

4 On the distribution side with the large  
5 numbers of crews that come into Florida and  
6 material needs to be where they're working, where  
7 the damage is, the inventory control process  
8 consists of opening a storm charging account  
9 number, that's the first step. Then material is,  
10 from our central warehouse, is charged against that  
11 account and delivered to, in the case of Irma, we  
12 had 26 staging sites. It's delivered to those  
13 staging sites for use. It's distributed to crews  
14 on the staging site. It's monitored. It's -- they  
15 don't go by reels. It's hand quills of wire and  
16 cut-outs and transformers and poles. And there is  
17 also 24-hour security on those sites to ensure  
18 there is prudent control of that material. And  
19 when the event is over, all the unused equipment is  
20 returned to the central warehouse and charged back  
21 against that storm project number, so the actual  
22 usage is cleared against what's returned.

23 COMMISSIONER BROWN: That's all?

24 MR. BREMAN: No. I have another question. I  
25 was waiting.

1           COMMISSIONER BROWN: Commissioners, any other  
2 questions?

3           All right. Please continue.

4           MR. BREMAN: Okay. Earlier today we heard  
5 some talk of FPL's flood monitors on their  
6 substations and they're continuing with that  
7 program. In Staff's First Data Request No. 3, the  
8 staff that reviewed Duke's response to this has a  
9 question about whether or not Duke is pursuing  
10 flood monitors on its substations on account of  
11 some of its locations may be susceptible to  
12 flooding and storm surge.

13           MR. CUTCLIFFE: So we don't have a history  
14 with flood risk or flood damage in our substations.  
15 What we have done is targeted mitigations where  
16 appropriate. Equipment has been elevated. We've  
17 raised battery racks. And then there are temporary  
18 measures that can be employed when there is any  
19 kind of a surge risk to limit the ingress of water.  
20 And also in any siting of equipment and new  
21 substations, the flood risk is one of the selection  
22 criteria that's used.

23           MR. BREMAN: So you'd rather raise the  
24 substation than put the alarm on it like they're  
25 doing up in New Jersey?

1           MR. CUTCLIFFE: It's not practical to raise  
2 the whole station. What we do is based on the  
3 layout of the yard; specific equipment can be  
4 elevated to minimize the risk.

5           MR. BREMAN: Again, for Duke. In response to  
6 Staff Question No. 2 to Second Data Request, Duke  
7 provided a copy of their forensic review and in  
8 that report there is discussion of a transmission  
9 tower that failed due to winds and corrosion.  
10 Could you please elaborate a little bit on that  
11 event?

12           MR. CUTCLIFFE: Sure. So that specific tower  
13 that was referenced in that, in that Question No.  
14 2, has been replaced and inspection of -- it was a  
15 40-year old structure. It had been inspected in  
16 2016 and so it had been surveyed. And what we've  
17 done is initiate an inspection of the rest of that  
18 tower line to search out any kind of similar  
19 failure points.

20           MR. BREMAN: That's all my questions for --

21           MR. BALLINGER: Can I follow up with that?  
22 I'm sorry.

23           COMMISSIONER BROWN: Sure. Can you tell us  
24 when that inspection with the rest of the line may  
25 be completed?

1 MR. CUTCLIFFE: Be completed in 2018.

2 MR. BALLINGER: Okay. Thank you.

3 MR. BREMAN: Okay. Moving on to TECO.

4 MR. HAINES: Yeah.

5 MR. BREMAN: On slide 16 of your presentation  
6 you state that 20 hardened distribution poles  
7 failed during Hurricane Irma. Were the causes of  
8 these failures trees and, if so, were you surprised  
9 by that?

10 MR. HAINES: Based on the forensic analysis  
11 that we had done, it revealed that a majority of  
12 the issues that caused pole failures were trees and  
13 trees outside the right-of-way. So while our  
14 process doesn't necessarily document the root cause  
15 failure of every single pole that's changed out, we  
16 have to kind of fall back on the forensic analysis  
17 that was done. And so, yes, I would say it most  
18 likely would be due to trees outside of the  
19 right-of-way.

20 MR. BREMAN: And did those -- did that type of  
21 failure, cause of failure, surprise TECO or --

22 MR. HAINES: I would say, no, not necessarily.  
23 I mean, again, something has got to give when a  
24 large tree falls on the line right through the  
25 intilay or the crossarm or the pole's going to

1 give. So, yeah, I would say those situations are  
2 going to happen with overhead system.

3 MR. BREMAN: Okay. Next question -- if that's  
4 okay.

5 COMMISSIONER BROWN: Of course.

6 MR. BREMAN: In response to Staff's Data  
7 Request to No. 4, TECO said it did not avoid  
8 outages due to automated switch gear and switches.  
9 Is TECO looking into automated feeder switches?

10 MR. HAINES: Right. Like I mentioned earlier,  
11 we're currently putting mid-circuit re-closers out  
12 on our system and trying to get as many circuits,  
13 especially the ones that have a history of, you  
14 know, a lot of momentary interruptions or outages  
15 covered. And long term, with our good  
16 modernization plan and our road map, is to have  
17 self-healing networks in place. So in order to do  
18 that, you've got to have probably at least three of  
19 those automated switches on each circuit with a  
20 normal open point so that you can automatically  
21 close back in. So I would say that part of our  
22 long-term strategy is eventually get there.

23 COMMISSIONER BROWN: Can I just followup?  
24 When you say long-term, what time frame are you  
25 talking about?



1           MR. HAINES: It'll probably be five years to  
2           ten years, I mean just order and magnitude.

3           COMMISSIONER BROWN: Okay.

4           MR. BREMAN: That's all the questions from me.

5           COMMISSIONER BROWN: All right. Next up.

6           MS. BUYS: Penelope Buys. I'm going to ask  
7           questions on the impediments, hopefully they  
8           haven't answered those yet. First one is to FPL.  
9           In response to Staff's First Data Request 32, you  
10          reported for Hurricane Matthew that there was  
11          limited hotel accommodations, but Hurricane Irma  
12          was large -- had a larger impact on the state. So  
13          was this not an issue for Irma as it was for  
14          Matthew?

15          MR. OLNICK: I think as we've mentioned many  
16          times, each hurricane is slightly different and  
17          Irma was significantly larger, but one of the  
18          differences in Irma and Matthew was when Matthew  
19          was coming up the east coast of Florida, it was  
20          right off the coast of Miami as a category four, 50  
21          miles off of West Palm as a category four and  
22          potentially coming in to the Brevard area as a  
23          category four. And so up and down the east  
24          coastline, primarily from the north of the West  
25          Palm Beach area, all the way up into Daytona, there

1           were many evacuation orders. And so most of those  
2           folks that lived up and down the coastline had no  
3           where to go but consume all of the hotels that are  
4           in that part of the state. And in that part of the  
5           state there is a whole lot less hotels than there  
6           are, frankly, in the tri-county area and other  
7           parts of the state. So even though Irma was much  
8           larger, it was just kind of a function of the type  
9           of storm, the location, and in this particular case  
10          where we needed more people and there was just less  
11          hotels there. So that just made it a little bit  
12          unique and a little bit more of a challenge.

13                 MS. BUYS: Okay. Next question is for Duke.  
14                 In response to the Staff's Data Request No. 32,  
15                 please explain what Duke meant when it listed  
16                 access to repair locations as impediment to  
17                 restoration. For example, did the customers not  
18                 allow to access or were trees, debris, blocking the  
19                 areas where the repairs were needed?

20                 MR. CUTCLIFFE: Yes, that reference was  
21                 specifically to storm-driven effects. So it was  
22                 downed trees, debris and the effects of ground  
23                 saturation and flooding.

24                 MS. BUYS: Okay. Next question is for the  
25                 co-op's. In Florida Keys Response to Staff's Data

1 Request No. 32, they reported that a lack of trauma  
2 care for their workers immediately following the  
3 storm was an impediment. Can you elaborate on  
4 that?

5 MR. BJORKLUND: Yes, ma'am. So when Monroe  
6 County issued their residential evacuation order  
7 effective of 5:00 p.m. on Wednesday, September the  
8 6th and area hospitals at that time began closing  
9 because most of their staff evacuated, the final  
10 hospital closure within that service area happened  
11 around 7:00 p.m. on Thursday, September the 7th.  
12 The county-owned trauma star medical evacuation  
13 helicopters were also flown out of the area to  
14 protect them. So as of 7:00 p.m. on September the  
15 7th, there was no ability for us to have excess to  
16 medical care, trauma care, in the event of a  
17 serious accident and those facilities weren't  
18 available back to us until Tuesday, September the  
19 12th.

20 MS. BUYS: Okay. Another question concerning  
21 Suwannee Valley and their response to Request No.  
22 32, it was reported when noting about having more  
23 restoration crews that there is a tipping point  
24 from safety and operational standpoint where more  
25 is not necessarily better. Can you elaborate on

1           that?

2                   MR. BJORKKLUND:  Yes, ma'am.  And when we're  
3           talking about this, we're talking about the  
4           restoration crews out in the field more than other  
5           folks that might come help.  So if you're looking  
6           at an instance of having restoration crews on the  
7           ground, you have to make sure that you can operate  
8           in a safe manner and make sure that logistically  
9           you can handle that amount of people.

10                   So, for this instance, if you look at a case  
11           where you have someone that they call a bird dog,  
12           and a bird dog is basically the person that's  
13           familiar with the system, the safety requirements,  
14           the electrical network topography, construction  
15           standards, communication protocol, how to deal with  
16           everything from A to Z, including the dispatch, and  
17           their function is to be with the crews as they go  
18           around to make sure that everything is operating in  
19           the safest, most efficient manner.  So once you get  
20           to a certain point you run out of people to send  
21           out with those folks, and there's also just the  
22           point of diminishing returns.  Even though you  
23           might have more people, you're not necessarily  
24           going to be able to keep it working at an effective  
25           and an efficient pace.

1 MS. BUYS: Okay. Thank you.

2 MR. BJORKKLUND: Yes, ma'am.

3 MS. BUYS: My last question is for the muni's.  
4 OUC reported that the customer site systems needed  
5 repair and permitting before the power can be  
6 restored was an impediment. Does OUC think it took  
7 longer because the people were evacuated or was  
8 there no contractors to fix the customer equipment  
9 before they can restore power?

10 MR. FINKLEA: Yes, ma'am. The central problem  
11 here was that OUC was trying to restore power to  
12 folks who needed to get county or city building  
13 inspectors to come out and inspect that they could  
14 take service. Generally, this had to do with  
15 weather heads or breaker panels. At first, those  
16 city or county inspectors were not working other  
17 than 9:00 to 5:00 and they weren't working over the  
18 weekend. So an OUC crew or a mutual aid crew may  
19 be there on a Saturday trying to restore service,  
20 but they couldn't restore service to the customer  
21 account because they had a weather head that needed  
22 an inspection. Once OUC raised the issue to the  
23 city and the county, they put their inspectors on a  
24 more-extended work schedule and they had inspectors  
25 out available after hours to get those customers

1 back online.

2 MS. BUYS: Okay. That's all the questions I  
3 have for that category.

4 COMMISSIONER BROWN: Thank you.  
5 Commissioners, any questions? All right.

6 MS. THOMPSON: Takira Thompson, Commission  
7 staff. My first questions are for FPL. The  
8 majority of customer comments were about inaccurate  
9 restoration estimates. Did this inaccurate  
10 information to customers result in a delay in  
11 restoration of electric service or is this more of  
12 customer service issue?

13 MR. OLNICK: So if I understand the question,  
14 did the information that the customers were  
15 receiving on the website or their iPhone, given  
16 that sometimes the information was not as  
17 up-to-date as possible delay restoration?

18 MS. THOMPSON: Yes, that's the question.

19 MR. OLNICK: So the answer is no. The  
20 information that was being supplied via our -- to  
21 our customers via either the website, or any of our  
22 digital portals, didn't in any way delay the  
23 restoration process. As I mentioned earlier, we --  
24 you know, during Irma the website and our systems  
25 experienced just an unprecedented amount of volumes

1 and there were some challenges and it did slow and  
2 there was some information that was delayed as far  
3 as providing the best ETR we could, but it didn't  
4 delay the actual restoration of service at all.

5 MS. THOMPSON: Okay. So do you see this as  
6 more of a customer service issue?

7 MR. OLNICK: It is a -- I would say not -- if  
8 you classify communications under customer service  
9 then I would say, yes. It wasn't a restoration  
10 issue since then. What we've done in not only  
11 enhancing this system and kind of reengineering the  
12 application itself, but to tie a little bit more  
13 information that's in our restoration systems and  
14 outage management systems to enhance the  
15 information that we give to the customer.

16 MS. THOMPSON: Okay. These questions -- well,  
17 I'm going to actually pose the same question to  
18 Duke. Would you like me to repeat it?

19 MR. CUTCLIFFE: No need. Thank you. Yeah, so  
20 the inaccurate restoration estimates that were  
21 given did not delay restoration in any way. They  
22 were a customer service, a communication gap, and  
23 as I mentioned earlier we've addressed that in some  
24 upgrades and testing of our outage management  
25 system, as well as modifications to the tools and

1 the processes that we used to set the ETR's, and to  
2 take into account all factors that can affect  
3 restoration.

4 MS. THOMPSON: Thank you. And this question  
5 is for FPL again. The lack of tree trimming also  
6 accounted for a portion of the negative customer  
7 comments that were received. How does your utility  
8 decide when and where to trim?

9 MR. OLNICK: So where FPL trims really depends  
10 on multiple factors. One of the key ones, of  
11 course, is where it is in the regular trim cycle,  
12 whether it's on a feeder averaging every three  
13 years or on a lateral every six years, but there's  
14 also other pieces of that, too. There is mid-cycle  
15 trimming. We trim -- we trim all of our identified  
16 CIF feeders each year prior to storm season, which  
17 we are just finishing up right now. There is also  
18 other customer trim requests and so forth. So the  
19 timing of it really depends on various factors. So  
20 from a customer perception standpoint, it may just  
21 be a function of where they are in that time line.

22 MS. THOMPSON: Okay. And are customers  
23 notified prior to tree trimming processes?

24 MR. OLNICK: Normal day-to-day absent kind of  
25 storm restoration, our process is that an outbound



1 communication typically is in the form of a letter,  
2 goes out to customers usually a couple weeks ahead  
3 of time and then it's followed up by a door hanger  
4 if we know we've got to get into their yard.  
5 Customers don't like surprises, so we try to make  
6 sure that they know we're going to be there.

7 And then one key point, too, and I know  
8 although you didn't ask, an important point about  
9 the tree trimming is on all of our feeder trimming  
10 we make sure that 100 percent of that is reviewed  
11 by either one of our FPL arborists, or one of our  
12 contract arborists, to kind of ensure quality  
13 control. And I know customers may not agree with  
14 trimming standards and how we trim, but we do need  
15 to ensure that the work was done properly.

16 MS. THOMPSON: Right. That was my next  
17 question, actually. Thank you.

18 So similar questions for Duke, as well.

19 MR. CUTCLIFFE: Yes. So the most  
20 cost-effective and most operationally-effective  
21 trimming that we do is what we call production  
22 trimming and that's when it's planned and it's not  
23 reactive and it's done on a cycle. And the way we  
24 select the portions of our feeders to trim in  
25 production is through some data analytics. We

1 include the time since the last trim as well as the  
2 operational -- the reliability performance of those  
3 segments as well. And all that goes into setting  
4 the schedule for the year.

5 We contract all tree trimming out so a vendor  
6 does that for us, but we pay per span and there are  
7 a number of different trimming types that can be  
8 done anywhere from mechanical trimming that's side  
9 walls to people that climb trees and do it, you  
10 know, from a loft in the trees and everything in  
11 between. And so we -- we call pre-inspect every  
12 span that gets trimmed to determine what type of  
13 trimming is appropriate for that span. We turn  
14 that over to our vendor who then completes the work  
15 and we do 100 percent audit on what is done to  
16 ensure we got what we paid for and that the right  
17 type of trimming was used.

18 And in regard to communication, we send  
19 letters out one to two weeks ahead of time to  
20 notify everybody we have on account. You miss  
21 people that way. So it's our practice to knock on  
22 doors, walk house-to-house, to notify people when  
23 we're on their property to do the trimming, and if  
24 we miss them we leave door hangers with an  
25 explanation of what's been done and a contact

1 number.

2 MS. THOMPSON: Okay. Thank you. Those are  
3 all the questions I have.

4 COMMISSIONER BROWN: I have a question for  
5 FPL. Can you directly attribute in some type of  
6 metric from Irma whether a certain area of outages  
7 occurred directly as a result of lack of tree  
8 trimming?

9 MR. OLNICK: I would answer it that the  
10 outages that we saw in Irma, and I think you've  
11 heard this probably from others today, too, were  
12 typically not from a lack of the annual three- to  
13 six-years cycle trimming that we do, but more so  
14 from trees that were outside of an area that we  
15 typically trim from either fallen trees outside of  
16 the right-of-way, uprooted trees from outside of  
17 the right-of-way. So I wouldn't call that maybe a  
18 lack of trimming as much as damage from trees that  
19 we would typically not trim.

20 COMMISSIONER BROWN: And not trim because they  
21 were not in the rights-of-way?

22 MR. OLNICK: Correct.

23 COMMISSIONER BROWN: Okay. Thanks.

24 Commissioner Polmann.

25 COMMISSIONER POLMANN: Not to pick on your

1 answer, so I'll ask somebody else and then you'll  
2 here me. Same question for Duke. I think you,  
3 likewise, have a lot of trees that are outside of  
4 the right-of-way and I talked about that earlier,  
5 but is there a particular way to measure or have  
6 you considered the metric of in the corridor where  
7 you have facilities what part of your corridor has  
8 trees outside of your control that is not being  
9 maintained by the entity that is adjacent to the  
10 right-of-way that has some potential, whether it's  
11 damage to your lines or hasn't. I mean, there's a  
12 risk factor that's right next to your facility. So  
13 have you measured it or could you measure it, I  
14 think would be helpful information.

15 MR. CUTCLIFFE: Yeah, I would answer the  
16 question this way. So in non-hurricane type of  
17 operations we do get information on causes and we  
18 differentiate between what we call a preventable  
19 and non-preventable tree-caused outage. And in  
20 those cases, about 60 percent of what we see, 60 to  
21 70 percent is in a non-preventable category, so we  
22 still have -- you know, that still leaves 30 or 40  
23 percent of what occurs is from what we determine to  
24 be a preventable cause on the site. And that  
25 number has gone down in the last three years. We

1           increased the specification in 2014 and got better  
2           performance. Our cost went up slightly, but it was  
3           a good bargain. In these kind of measurements,  
4           it's always a balance. We've never going to get to  
5           zero of the preventable type. We try to optimize  
6           our trimming specification so that we get the best  
7           performance at the best cost and it -- just as an  
8           example, when we changed the specifications we now  
9           trim as far up as a bucket will reach. We used to  
10          stop at the level of the primary conductor and if  
11          the limb that's overhanging is greater than four  
12          inches in diameter, we'll leave it because it's  
13          expensive and time consuming to take it down. The  
14          presumption is that it's strong, but if it's less  
15          than four inches, we will remove it. And since  
16          employing that specification, we've seen  
17          improvement in overall tree performance and  
18          specifically in the preventable category. I just  
19          share at as an example of the balance that struck  
20          between the amount of work and the cost and the  
21          result.

22                 In a hurricane, we do not collect that type of  
23          cause-specific information at each repair location.  
24          What we have is a surrogate for that is our  
25          forensics on pole failures. And the overwhelming

1           cause is entire trees coming down, as we said  
2           before, it sounds like a broken record, but from  
3           outside the right-of-way. And the difference there  
4           is our specification, even if a tree's off the  
5           right-of-way, is intended to target diseased trees  
6           or trees that are leaning or that we call danger  
7           trees, but there's a reason to think that tree can  
8           fall and jeopardize the primary. And I believe  
9           those are prudent choices under normal conditions.

10                    In a hurricane, those same factors don't  
11           apply. And healthy trees come over with saturated  
12           ground. Trees that are otherwise well-rooted and  
13           structurally sound to come over and that's been our  
14           experience from our forensics.

15                    COMMISSIONER POLMANN: Let me -- thank you for  
16           those comments, very helpful. Let me just follow  
17           up. Commissioner Clark alluded to this -- well,  
18           more than alluded. If this Commission were to make  
19           some effort to advocate for better efforts adjacent  
20           to the right-of-way, improvement in vegetation  
21           management, quantitative information to persuade  
22           those who can better manage that would be extremely  
23           helpful, rather than anecdotal information and the  
24           experience saying, well, all those trees are the  
25           problem, not these trees. So along those lines,

1 even in non-storm times, is some examination of a  
2 risk factor such as diseased trees and so forth,  
3 recognizing it would be quite an effort to walk the  
4 line with an arborist and say, well, so many trees  
5 per mile, or maybe a sampling of some type, that  
6 would say X percentage of trees along per mile is  
7 likely to be a problem in non-storm times. Now, in  
8 storm times it's a different question, but -- and  
9 then from the forensics, we can interpret again per  
10 line mile how much damage.

11 Now, those are just some measure but I think  
12 having something quantitative to go try to persuade  
13 somebody X, Y, Z needs to be done will be very,  
14 very important, so I would encourage all to  
15 consider what we need in order to measure. And,  
16 Madam Chairman, I think maybe that was your  
17 question.

18 COMMISSIONER BROWN: So that may have been,  
19 but Commissioner Clark jumped in.

20 COMMISSIONER CLARK: Thank you. I agree  
21 with, Mr. Polmann. The data is very important in  
22 helping us make that decision, but I think you've  
23 given us a little bit of the data, at least enough  
24 to begin to -- for me personally, to say I think  
25 it's worth exploring. You said 40 percent of the

1 trees -- 40 percent of the outages you've  
2 identified were preventable. That means you have  
3 identified the cause of that problem most likely in  
4 advance and you weren't -- you didn't have  
5 permission to address the cause is usually, I'm  
6 guessing, the problem.

7 You've identified a tree outside of your  
8 right-of-way that's on private property that is a  
9 potential damage to the line. Either it's dead or  
10 about to fall or leaning or there's some problem  
11 with it and the owner of that tree doesn't want to  
12 take care of it, yet we know that it is going to  
13 take out a line segment and take out 500 or 1,000  
14 customers depending on the situation. You're  
15 responsible for that. So we're just sitting here  
16 waiting for it to happen and instead of taking a  
17 proactive position and saying, no, I'm sorry, but  
18 this tree has to be removed or someone is going to  
19 have to be responsible for the damages that occur,  
20 and I think you've got some of that data, just in  
21 the numbers you already provided us.

22 MR. CUTCLIFFE: I would agree. I do need to  
23 correct. I misspoke earlier. When I said 40  
24 percent, I meant 40 percent of our tree-caused  
25 outages from that -- what we'll call the



1 non-preventable off the right-of-way. In total,  
2 about 23 percent of our customer minutes come from  
3 tree causes so it's 40 percent of that 23 but your  
4 point is valid.

5 COMMISSIONER BROWN: Can you just say those  
6 numbers one more time?

7 MR. CUTCLIFFE: If you look at all of the  
8 outage time that we have, we categorize each -- we  
9 categorize by cause about 23 percent of those come  
10 from tree causes. We break those tree causes down  
11 between preventable and non-preventable based on  
12 our trimming spec and about 40 percent of that  
13 23 percent is from the non-preventable category.

14 COMMISSIONER BROWN: Excellent. Thank you.  
15 Commissioners, any other questions before we say --  
16 go ahead staff.

17 MR. BALLINGER: Can I have a follow-up on  
18 that?

19 COMMISSIONER BROWN: Yes.

20 MR. BALLINGER: This is for the other  
21 utilities. I don't know that the other utilities  
22 break down that data in that level of degree of  
23 preventable and non-preventable. Am I correct?

24 COMMISSIONER BROWN: Okay. Florida Power &  
25 Light.

1           MR. OLNICK: We do on -- but not in a storm  
2 situation, so the --

3           COMMISSIONER BROWN: Have you been able to  
4 provide that information thus far, though, in this  
5 docket or in any docket?

6           MR. BALLINGER: This would be in our annual  
7 distribution reliability reports is where we would  
8 get this information because it's not non-storm  
9 related information. I'm just -- I'm drawing a  
10 blank on what other utility's report is  
11 preventable, non-preventable. I'm not sure that  
12 it's identical to the way they're qualifying. I  
13 just want to --

14          COMMISSIONER CLARK: Couldn't you extrapolate  
15 that data? I mean, how far off of that is it going  
16 to be from what really happens during a storm? If  
17 you've got, you know, 60 percent of your  
18 tree-caused outages were preventable during  
19 non-storm activity, couldn't you pretty much just  
20 assume it's going to kind of follow at least close  
21 to the same pattern?

22          COMMISSIONER BROWN: Are you asking FPL or --

23          COMMISSIONER CLARK: Anybody. I'm just  
24 throwing that one out there, I think, and see what  
25 sticks.

1 MR. BALLINGER: I'll take a shot at it.

2 Perhaps, I will say that, perhaps you could, you  
3 know, the non-preventable damage that occurs is  
4 usually because of a local storm. It might be a  
5 thunderstorm came through and blew over a perfectly  
6 healthy tree so it wasn't one you could have  
7 trimmed to take out or identify. Would that have  
8 happened in a hurricane? Probably so. So it's  
9 possible. It's more of getting to, how do you  
10 identify that as a preventable tree or preventable  
11 outage?

12 COMMISSIONER BROWN: Do any of the other  
13 utilities have any comment on that? Gulf. TECO.

14 MR. HAINES: I believe TECO does track  
15 preventable versus non-preventable tree-related  
16 outages. Probably what we submit, we just roll it  
17 all up to a tree outage.

18 MR. BALLINGER: That's what I'm thinking.  
19 It's not reported to us in that level of --

20 COMMISSIONER BROWN: The way Duke's is.

21 MR. HAINES: But I would maybe add a little  
22 bit to Commissioner Clarks' comment on the  
23 percentages being the same. I think kind of  
24 day-to-day normal storm season, a tree outage might  
25 be a branch just gets on the line and locks a

1 circuit out. Right. Troublemakers will go out there  
2 and they can clear it up pretty quickly. There's  
3 really no repairs to be made. Whereas the type of  
4 tree issues that we saw during Irma are bringing  
5 lines down. So that's why the majority, I think  
6 the larger branches, larger trees, are outside the  
7 right-of-way, what we consider non-preventable  
8 because it's not something we would typically trim  
9 during our normal cycles.

10 MR. BALLINGER: If I could add, recall in the  
11 distribution liability, major storm events are  
12 excluded out. So we're looking at what I call blue  
13 sky data of what happens. So he's correct. It  
14 would be more outages that are a tree branch comes  
15 into fault and kicks it out, as opposed to a whole  
16 tree coming over and taking out a line so you're  
17 looking at different metrics.

18 COMMISSIONER BROWN: Anybody else would like  
19 to add anything before we continue? Commissioner  
20 Clark, anything?

21 All right. Emily.

22 MS. KNOBLAUCH: Emily Knoblauch with staff.  
23 My questions are related to suggested improvements  
24 that we asked of the IOU's so it relates to the  
25 Third Data Request. And my first questions go to

1 Duke Energy.

2 Okay. In response to Staff's Third Data  
3 Request No. 3, DEF provided the primary factors  
4 that are considered when determining the most  
5 cost-effective location for hardening projects.  
6 These factors that were provided are operational  
7 and storm performance, remaining life, assessment  
8 of equipment and cost repair or replace, is the  
9 number of customers impacted also considered?

10 MR. CUTCLIFFE: Yes, it is, in the form of  
11 customer minutes of interruption is one of the  
12 criteria.

13 MS. KNOBLAUCH: Okay. Would these factors  
14 also be appropriate for targeted undergrounding?

15 MR. CUTCLIFFE: In the targeted  
16 undergrounding, the focus of that program is what  
17 we call the fragile fringe. It's the chronic  
18 outage areas. So our focus there is areas where  
19 the tree environment cannot be effectively  
20 mitigated with our tree specification. So we use a  
21 measure of outages per mile to gauge the  
22 effectiveness for that program. So it's a bit  
23 different because it's targeting a different  
24 problem, if you will.

25 MS. KNOBLAUCH: Okay. In response again to

1 Staff's Third Data Request No. 9, DEF suggested  
2 that the eight-year wooden pole inspection could be  
3 lengthened to save resources since decay to wooden  
4 poles and poles maintenance programs were not  
5 prominent causes of outages for Hurricane Irma.  
6 Does DEF anticipate filing a petition to lengthen  
7 the eight-year wooden pole inspection cycle in the  
8 near future?

9 MR. CUTCLIFFE: No, we don't. We are  
10 assessing possibly an extension of the 16-year CCA  
11 pole exemption.

12 MS. KNOBLAUCH: Okay. And if it's okay, my  
13 next questions go to FPL. Again, in response to  
14 Staff's Third Data Request No. 5, FPL stated that  
15 it's improved its processes to facilitate the  
16 identification of critical infrastructure functions  
17 by emergency operation center personnel. Will this  
18 updated process, will that be reflected in FPL's  
19 reliability report or in its next storm hardening  
20 plan?

21 MR. OLNICK: We are just kind of wrapping up  
22 this year's process in discussion with the EOC's  
23 and we've had a lot of nice enhancements to that  
24 and our -- I think our plan is to include all of  
25 those improvements in next year's March filing.

1 MS. KNOBLAUCH: Okay. For No. 6, FPL reported  
2 non-utility -- or, excuse me, non-electric  
3 utilities that own poles with electric facilities  
4 attached are not mandated by the Commission  
5 eight-year inspection program and I believe you  
6 mentioned a number so I wanted to make sure I have  
7 this correct, for the number of non-electric  
8 utility poles that FPL attaches to, I believe you  
9 said it was over 200,000. Is that correct or do  
10 you have a specific number?

11 MR. OLNICK: It is. And I checked on that  
12 after I stated that and it's 217,000.

13 MS. KNOBLAUCH: Thank you. And do you know  
14 the percentage of total poles? So it would be the  
15 percentage of non-electric utility poles to  
16 FPL-owned poles?

17 MR. OLNICK: We have almost 1.2 million of our  
18 own poles, so that's about 15 percent.

19 MS. KNOBLAUCH: And the power lines that are  
20 attach to those non-electric utility poles, are  
21 those primarily feeders or laterals?

22 MR. OLNICK: Actually, they're primarily  
23 laterals and probably primarily on the east coast.

24 MS. KNOBLAUCH: And has FPL ever considered  
25 installing an additional electric pole owned by FPL

1 next to or in the vicinity of one of these  
2 non-electric utility poles?

3 MR. OLNICK: No, that's not something we would  
4 really consider as a good alternative, only that it  
5 does add another pole and would add a significant  
6 amount of customer push-back, I think, too, by  
7 adding a second pole in place.

8 MS. KNOBLAUCH: If a non-electric utility pole  
9 is damaged, who handles and pays for the repairs?

10 MR. OLNICK: There's a process in place today  
11 that during normal day-to-day, the non-FPL utility  
12 pole owner is responsible for replacing the pole.  
13 If it's an emergency though, and certainly during a  
14 storm situation, we have a process in place that  
15 we'll go ahead and replace it. I say we. Could be  
16 a contractor, too, in a hurricane where we use a  
17 lot of resources. And then we would back-bill that  
18 utility for the work.

19 MS. KNOBLAUCH: Okay. My last question --

20 MR. BALLINGER: I'm sorry. Can I follow-up  
21 with that?

22 COMMISSIONER BROWN: Sure.

23 MR. BALLINGER: If FPL replaces a pole, let's  
24 say it's a telecomm pole, does it replace it with  
25 one of FPL's extreme wind loading poles?



1 MR. OLENICK: It does.

2 MR. BALLINGER: And so it bills in the  
3 telecomm company for that?

4 MR. OLNICK: It does -- we do. Sorry.

5 MR. BALLINGER: Thank you.

6 MS. KNOBLAUCH: So for No. 5, FPL stated that  
7 undergrounding, particularly laterals, may be the  
8 best solution for eliminating vegetation-related  
9 outages. And then also in response to No. 7, FPL  
10 stated it's planning to conduct an underground  
11 hardening pilot that will convert certain select  
12 overhead laterals to underground. Does FPL  
13 anticipate filing a petition to conduct an  
14 underground hardening pilot in the near future?

15 MR. OLNICK: No. Our intention is not to file  
16 a petition, but what we intend to do is again in  
17 the March filing next year, in 2019, we were -- our  
18 plan was to include that in the filing and just  
19 discuss what our plans are for '18, '19 and '20.

20 MS. KNOBLAUCH: Okay. And would the costs  
21 incurred, would those be spread across FPL's entire  
22 customer base or would it just be the customers  
23 where the undergrounding occurs?

24 MR. OLNICK: Our plan is to follow a very  
25 similar approach that we've done in all of our

1 hardening and we would spread that across the  
2 entire rate base since really the entire rate base,  
3 in our perspective, is really beneficiary of that  
4 hardening.

5 MR. BALLINGER: Just a quick clarification.  
6 You said a couple times, filing in March. You're  
7 referring to the hardening plan that comes up every  
8 three years?

9 MR. OLNICK: That's correct.

10 MR. BALLINGER: Okay. Thank you.

11 MS. KNOBLAUCH: Okay. The last question I  
12 have is for Gulf and this is very similar to the  
13 questions that I was asking FPL. So this was in  
14 response to No. 4 that you guys provided and Gulf  
15 reported that many third-party-owned poles that  
16 Gulf attaches to may not have inspection programs.  
17 Do you have the number of third-party-owned poles  
18 that Gulf does attach to?

19 MS. COLLINS: Yes. We have over 62,000 poles  
20 that were attached to that are owned by third  
21 parties.

22 MS. KNOBLAUCH: And I think you mentioned  
23 earlier the percentage, I think you said, it was  
24 over 30 percent if I remember correctly?

25 MS. COLLINS: Approximately 31 percent. We

1 owned a little over 200,000 of our own poles.

2 MS. KNOBLAUCH: And same question is are the  
3 lines that are attached to those, are those  
4 primarily feeders or laterals?

5 MS. COLLINS: For us they're both.

6 MS. KNOBLAUCH: And again, same question, has  
7 Gulf considered installing an additional  
8 electric-owned pole in addition to the -- or next  
9 to the non-electric utility pole?

10 MS. COLLINS: So for some very similar reasons  
11 the additional cost to our customers is one reason  
12 for not doing it. With the relationships that we  
13 have with the cities and counties, the preference  
14 of not having multiple utility poles or doing it  
15 along utility easement is the preferred method is  
16 another reason. And then in terms of close  
17 proximity along the same right-of-way condition,  
18 same right-of-way are, we also have to think about  
19 the safety and the ability for us to be able to  
20 access in that same area. So those would be  
21 reasons why we would not consider that. We do have  
22 some locations in our service area where we are on  
23 different sides of the roads and there are pole  
24 lines, but that was an older construction, but  
25 we've moved away from that.

1 MS. KNOBLAUCH: Okay. And same question for  
2 the last one. If a non-electric utility pole is  
3 damaged, who handles the repairs and pays for the  
4 repairs?

5 MS. COLLINS: So very similarly in an  
6 emergency situation, for instance, if a car were to  
7 hit a pole and it would be broken, then Gulf Power  
8 would respond to that location and replace the  
9 pole. We would then bill the pole owner and  
10 transfer the ownership of that pole to that  
11 not-third-party utility.

12 MS. KNOBLAUCH: Thank you. That's all the  
13 questions I have.

14 COMMISSIONER BROWN: Thank you. All right.  
15 Staff, any other questions of the utilities?  
16 Looking at all of you. Tom.

17 MR. BALLINGER: No, ma'am. I think staff is  
18 done and we appreciate your participation today.  
19 As I said earlier, this is for you all to gain  
20 knowledge and I appreciate the questions you asked.  
21 We have learned a lot, as well.

22 COMMISSIONER BROWN: Awesome. Well, I have to  
23 say I really thank staff, Bralio, Mark, Tom, you  
24 guys for organizing this workshop. I think it was  
25 a very comprehensive discussion and exchange of

1 ideas. Appreciate the utilities' participation in  
2 it. Looking forward to continuing the discussion  
3 tomorrow and hearing from non-utility  
4 organizations. After that, as staff alluded to  
5 earlier, they're going to file a report at the June  
6 internal affairs, summarizing the large amount of  
7 information that's been gathered in this generic  
8 docket as well as provide us recommendations and  
9 options for further action.

10 Before we adjourn, I wanted to ask  
11 Commissioners, Chairman, are there any comments?  
12 Commissioner Fey first, followed by Commissioner  
13 Polmann.

14 COMMISSIONER FEY: Thank you, Madam Chair.  
15 Just one quick comment. I just want to say thank  
16 you to you and staff. I think this has been  
17 extremely beneficial for me. I have -- I've been  
18 extremely impressed with the differences, and I  
19 don't know if I'm complimenting you or the  
20 utilities, but the difference in the hardening and  
21 the improvements that's made and the results that  
22 we've seen from the recent storms --

23 COMMISSIONER BROWN: Oh, it's Art and I. It's  
24 totally Art and I.

25 COMMISSIONER FEY: Well done. Well done.

1 Chairman, Chairwoman. But it's amazing to see  
2 that. So I just appreciate the work that's being  
3 done in helping some of the newer Commissioners get  
4 up to speed on an issue that's extremely complex,  
5 but it seems like there are still some good areas  
6 to improve in. So thank you.

7 COMMISSIONER BROWN: Commissioner Polmann.

8 COMMISSIONER POLMANN: Thank you, Madam  
9 Chairman. My thanks to you for, as Chairman Graham  
10 indicated earlier, thank you for pursuing this last  
11 year and helping us, bringing everyone together. I  
12 appreciate all the efforts from staff. I know it's  
13 been a lot of work to compile everything. I  
14 especially thank the utilities for your efforts. I  
15 know it's been a busy time just following up from  
16 the storm.

17 I want to say this has been a tremendous day.  
18 I think it's very successful as a workshop. I've  
19 learned a lot. I appreciate your tolerance for  
20 some the detailed questions and my thanks to my  
21 colleagues here for their patience in tolerating my  
22 questions. So great day. I look forward to  
23 tomorrow. Thank you very much.

24 COMMISSIONER BROWN: Thank you, Commissioner  
25 Polmann. And Commissioner Clark followed by

1 Chairman Graham.

2 COMMISSIONER CLARK: I like Commissioner  
3 Polmann's statement and thank you for indulging me.  
4 I probably gotten a little further into the weeds  
5 than I needed to or should have, but I appreciate  
6 your candor and appreciate your support. Thank you  
7 to you and to your staff. I know that putting this  
8 information, you guys are sitting here today  
9 presenting it, but a lot of work goes in from a lot  
10 of staff people that do a lot of research and keep  
11 a lot of records, especially during those storm  
12 times.

13 We were talking the other day. I've had the  
14 opportunity to sit and work dispatch during storms  
15 and trying to determine and record what's a tree  
16 outage, what's a squirrel outage, what's a car  
17 outage. There's a million moving components to  
18 this process and so my hat goes off to your staff.  
19 Our line crews and line techs get a lot of the  
20 credit, and of course they deserve it, but those  
21 folks that are in there managing this dispatching  
22 process, managing the AVR and the outage management  
23 systems, they deserve a lot of credit, too, so  
24 please pass our appreciation on to them, as well.  
25 Thank you.

1           COMMISSIONER BROWN: Absolutely. And Chairman  
2           Graham.

3           CHAIRMAN GRAHAM: Thank you. I want to  
4           thank -- well ditto to what all my colleagues said.  
5           I want to thank the utilities for spending the day  
6           here doing this and this is over and above board of  
7           going through the storm recovery because, you know,  
8           we're going to go through a lot of this later on in  
9           the year, but I do appreciate you guys coming up  
10          and generically handling a lot of this stuff and I  
11          know all your attorneys sitting back behind you  
12          telling you what you can and cannot do, so don't  
13          think that went unnoticed. I do appreciate the,  
14          you know, the openness that you spoke to us, but I  
15          do understand the difficulties here you're also  
16          dealing with.

17          I want to thank staff. I think staff's done a  
18          great job of collecting all this data and trying to  
19          organize it and also following up with the  
20          questions. I want to thank Julie Brown for  
21          handling this. I have been asked why I decided to  
22          pass the gavel and it just so happens -- I mean, we  
23          haven't had a hurricane in ten years and just so  
24          happens the three that we had all came during her  
25          chairmanship and --



1           COMMISSIONER BROWN: As well as the rate  
2 cases.

3           CHAIRMAN GRAHAM: And so she also was the one  
4 who was down at the EOC center and she's the one  
5 that had to deal with this the entire time, and  
6 she's the one that came up with the idea of this  
7 workshop. So I think she did everything leading to  
8 it so she and -- I think she needed to be the one  
9 to bring the ship home and I do thank you for your  
10 effort.

11           And I thought, as all my other colleagues  
12 said, this has been well worth the time. Thank  
13 you.

14           COMMISSIONER BROWN: Thank you. Thank you,  
15 Commissioners. Thank you for your participation  
16 and we will see you all tomorrow at 9:30 if you  
17 plan on being here. There will be the non-utility  
18 folks, but you are all welcome to join and we will  
19 be recessing for tonight. Thank you again. Safe  
20 travels.

21 (Transcript continues in sequence in Volume 3.)  
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CERTIFICATE OF REPORTER

STATE OF FLORIDA )  
COUNTY OF LEON )

I, DANA W. REEVES, Professional Court Reporter, do hereby certify that the foregoing proceeding was heard at the time and place herein stated.

IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been transcribed under my direct supervision; and that this transcript constitutes a true transcription of my notes of said proceedings.

I FURTHER CERTIFY that I am not a relative, employee, attorney or counsel of any of the parties, nor am I a relative or employee of any of the parties' attorney or counsel connected with the action, nor am I financially interested in the action.

DATED THIS 11th day of May, 2018.



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DANA W. REEVES  
NOTARY PUBLIC  
COMMISSION #FF968527  
EXPIRES MARCH 22, 2020