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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. UNDOCKETED

2023 HURRICANE SEASON
PREPARATION BRIEFING BY
FLORIDA ELECTRIC UTILITIES.

_____ /

PROCEEDINGS: COMMISSION WORKSHOP

COMMISSIONERS
PARTICIPATING: CHAIRMAN ANDREW G. FAY
COMMISSIONER ART GRAHAM
COMMISSIONER GARY F. CLARK
COMMISSIONER MIKE LA ROSA
COMMISSIONER GABRIELLA PASSIDOMO

DATE: Tuesday, May 23, 2023

TIME: Commenced: 9:50 p.m.
Concluded: 11:54 a.m.

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

REPORTED BY: DEBRA R. KRICK
Court Reporter and
Notary Public in and for
the State of Florida at Large

PREMIER REPORTING
112 W. 5TH AVENUE
TALLAHASSEE, FLORIDA
(850) 894-0828

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

2 CHAIRMAN FAY: All right. Let's get started
3 here this morning for our workshop.

4 Welcome to the 2023 Hurricane Season
5 Preparation.

6 Staff, please read the notice.

7 They are not working? Okay, go ahead.

8 MR. IMIG: By notice issued on --

9 CHAIRMAN FAY: Wait, Mr. Imig, try your button
10 again. Go ahead now. Great. Thank you.

11 MR. IMIG: By notices issued on May 9th, 2023,
12 this time and place has been set for a hurricane
13 season preparation workshop. The purpose of this
14 workshop is more fully set out in the notices.

15 CHAIRMAN FAY: Great. Thank you.

16 All right. Commissioners, we have a number of
17 speakers this morning. Just -- I just have a few
18 quick comments and then I just would hope the floor
19 if any of you have any comments before we get to
20 each individual presenter.

21 So as we know, we do this workshop every year,
22 but this year we are able to include a wide range
23 of utilities, but also a telecom provider, as
24 that's becoming more and more of a topic for our
25 state as we manage these storms.

1 I think we all have probably mentioned here
2 before that Florida does a great job of responding
3 to damage and resiliency and restoration, and I am
4 fortunate enough to be involved in NARUC where, in
5 our critical infrastructure committee, we talked
6 about that. Florida is really a model for what
7 other states look at, but I also think we can't be
8 complacent in what we do to prepare and move
9 forward. So thanks to all the utility and
10 companies being here today to provide this
11 information.

12 With that, Commissioners, any comments before
13 we start into presenters? Seeing none.

14 We will first start with Andrew Pankratz this
15 morning, from Florida Power & Light.

16 And the presentations that we have that you
17 submitted, you will be able to go through them.
18 And as we move from one utility to another, they
19 will just flow right into the next one, so you can
20 just click on to that next slide and it will start
21 up for the next presenter.

22 So with that, Mr. Pankratz, you are
23 recognized.

24 MR. PANKRATZ: Thank you, Chairman and
25 Commissioners and staff. It's a pleasure to be

1 here today.

2 As mentioned, my name Andy Pankratz. I am
3 Senior Director of Emergency Preparedness for
4 Florida Power & Light. I have been with FPL for --
5 I am in my 24th year. I responded to my first
6 storm back in 2001. Certainly, things have changed
7 a lot since then.

8 I started my career as a protection and
9 control engineer in the field, and spent the bulk
10 of my career in our transmission control center.
11 Most recently, three years running our distribution
12 control center, and then I have spent the past year
13 in our emergency preparedness group. So again,
14 it's a pleasure to be here today.

15 Just a quick reminder of Florida Power &
16 Light's area. We cover about 5.8 million
17 customers. About half the state. Primarily the
18 east coast south of Jacksonville, the southwest
19 coast south of Tampa, and now the Panhandle.

20 One of the key challenges we've had with our
21 service territory is the vast majority of our
22 customers, over 80 percent live within 20 miles of
23 the coast, and we've got over 600 miles of
24 coastline.

25 I will speak to a variety of topics today with

1 regards to what we are doing to ensure we are ready
2 for this upcoming storm season. What we have been
3 doing to prepare. How we communicate to our
4 customers and encourage them to prepare, both
5 before and after an event. Where we stand with our
6 vegetation management and pole inspection programs.
7 And then some lessons learned from the 2022 storm
8 season that we are looking to apply to this storm
9 season.

10 So we often say if we are not responding to an
11 event, we are planning for one. So we -- it's an
12 annual process for us to plan for storm season.
13 And quite possibly, the most important event we do
14 is our annual storm dry run that was held about a
15 month ago, back in April. This year we simulated a
16 Category 4 storm making landfall in southeast
17 Florida.

18 We use that opportunity to bring in our
19 partners that we use during actual storms, local
20 law enforcement, Florida Highway Patrol, Florida
21 Department of Emergency Management, and many others
22 that are our strategic partners whenever we have an
23 actual event.

24 We also evaluate and update our processes, and
25 even sometimes roll out brand new processes for

1 storm season. Some examples are the refinement of
2 our storm damage model.

3 This year, we did a full test of our new
4 resource management tool that's rolling out this
5 year. And then, of course, our drone program just
6 continues to expand each and every year.

7 Everyone in our company has a storm role, and
8 this is a great opportunity for them to exercise
9 that storm role, because they are often very
10 different than their everyday jobs. So that dry
11 run allows them to -- to challenge themselves with
12 the training they've received throughout the year
13 and actually put it into practice during that --
14 that event.

15 We also work with industry organizations. We
16 are active EEI, the Southeast Electric Exchange.
17 We are making sure we've got our contracts and
18 agreements in place with our vendors for storm
19 response, and making sure we are sharing best
20 practices with -- with our partners there in those
21 committees and those organizations.

22 Communication is critical to a restoration
23 effort. We've got annual TV and print ads that we
24 roll out to our customers for preparedness. Not
25 only to let them know that we are preparing, but

1 also to let them know that we need them to make
2 sure that they are preparing as well for a -- for a
3 storm. We've got over 30 ways we communicate out
4 to our customers. We -- we bring folks in, media
5 folks into our command center during events.
6 Post-storm, we will bring media and reporters out
7 to heavily damaged areas, so they can see firsthand
8 what we are dealing without in the field after an
9 event. We've got targeted ads from our -- also on
10 our website, our mobile app as well.

11 We do hold daily press conferences following
12 an event. And lastly, we will set up community
13 response in those hardest hit areas with our -- our
14 customer service teams. We may roll out our mobile
15 command center or community response vehicles out
16 to the hardest hit areas, so customers have someone
17 they can speak to face-to-face and get -- get
18 realtime updates.

19 Post-storm communication as well for our
20 estimated time of restoration. Within the first 24
21 hours, we will -- we will provide a general ETR for
22 the restoration effort, and then we will continue
23 to refine that down throughout the effort. So at
24 the 48-hour mark, we target getting down to the
25 county level, and then at the 72-hour mark, down to

1 the subcounty level. It's critical for us to give
2 our -- our customers the most accurate information.

3 We also work with our community partners every
4 year. We -- we attend EOC meetings every year, go
5 through the commun-- the critical infrastructure
6 list for those local communities to ensure that
7 we've got -- we are on the same page for what the
8 critical needs are for those local communities.

9 We perform over a thousand presentations
10 throughout the state and within the community to --
11 to discuss our readiness, and to also ensure that
12 we are, again, requesting our customers to make
13 sure that they are ready as well.

14 In addition, we include information on our
15 website regarding safety. So from generator
16 safety, or how to operate solar equipment after an
17 outage, we want to make sure our crews that are out
18 there working are safe, and we don't have any
19 issues with backfeeds onto the grid.

20 As you can see by the numbers here, we've got
21 a robust vegetation management program, but
22 customers also play a big part of that. The Right
23 Tree, Right Place campaign is still a huge part of
24 what we do, making sure we are -- we are reducing
25 the probability of an -- of an outage from a tree

1 or vegetation.

2 Some numbers for year-end 2022. Our feeders
3 are on a three-year cycle, and we trimmed over
4 15,000 miles of feeder. Laterals on a six-year
5 cycle, over 4,000 miles of lateral. And on the
6 transmission side, our right-of-way, we patrolled
7 and trimmed over 9,000 miles of transmission.

8 As far as pole and structure inspections on
9 the distribution side. Like our vegetation
10 management program, very robust. We're on an
11 eight-year cycle on the distribution side. In
12 2022, we inspected over 190,000 distribution poles.
13 Almost 18,000 of those were concrete, and over
14 172,000 of those were wood poles.

15 On the transmission side, six-year cycle for
16 wood, 10-year cycle for concrete. Last year, over
17 82,000 structures.

18 I would like to note last year was a big
19 milestone for us at FPL on the transmission side.
20 Our legacy FPL, we removed our last wood structure.
21 So our -- our legacy FPL is all concrete or steel
22 now on the transmission side. And we've certainly
23 turned our focus on the northwest area to do the
24 same -- the same program up there, and remove all
25 of the wood transmission from the northwest area as

1 well.

2 Now, I would like to talk a little bit about
3 the 2022 season. Obviously, we had a couple of
4 large storms hit our service territory, Hurricane
5 Ian in September, Hurricane Nicole in October. We
6 also supported several of the utilities for winter
7 storms earlier in the year, and then even in
8 December. We won an EEI recovery award for Ian.
9 Also, EEI response awards for our 2022 season
10 support for other utilities. We were recently
11 nominated for a Nicole recovery award as well.

12 We know we are going to need help, and we are
13 always willing to help others whenever they need
14 help as well. It's one of the hallmarks of our
15 industry, and one of the things I am most proud of
16 being a part of this industry.

17 So looking at Hurricane Ian, a strong Category
18 4, major hurricane. 150-mile per hour winds with
19 significant storm surge. That storm impacted over
20 two million of our customers. It was the
21 strongest -- the fifth strongest U.S. landfall, and
22 fourth strongest Florida landfall.

23 I was around for Hurricane Charley. This
24 graphic, to me, really puts Ian in perspective when
25 you see Charley fits in the eye of the Ian. Those

1 were both Category 4, 150-mile per hour storms that
2 made landfall very close areas to each other.

3 Six weeks later, Hurricane Nicole made impact
4 -- made landfall on our east coast near Vero Beach
5 as a Category 1 hurricane. This was the latest
6 hurricane landfall in history for the Florida east
7 coast, and one of three hurricanes that formed in
8 November. That's tied for another record.

9 Both Ian and Nicole were devastating storms.
10 We saw the significant storm surge on the west, the
11 flooding on the east coast, and the erosion from
12 Nicole. It really created some challenging
13 conditions for our crews to work in, and we got
14 creative with some of those difficult conditions.

15 We used barges to -- to move trucks and any
16 equipment and material to areas we couldn't access
17 via land. We had water intrusion above our
18 equipment in our vaults. We had cars in vaults.
19 We had boats in our lines. So certainly some
20 changes we hadn't dealt with before that we had to
21 overcome.

22 We mobilized a significant support workforce
23 for both storms. All in, approximately 21,000 men
24 and women supported Ian with help from -- I am
25 sorry, with about 38 sites for processing, staging

1 and parking those resources.

2 For Nicole, all in, about 13,000 men and women
3 supported, with 11 sites for processing, staging
4 and parking. And we received support from
5 throughout southeast and beyond to help us restore.
6 We had support from over 30 states -- actually, 30
7 states for Ian, and 16 states for Nicole, to help
8 us respond.

9 Logistics were also critical for our
10 restoration efforts. And my hats are off to our
11 logistics teams. When you look at some of the
12 numbers here, over half-a-million meals served, 2.7
13 million pounds of ice, over three million bottles
14 of water, and almost two-and-a-half million gallons
15 of fuel. That's no small undertaking. And that
16 was a significant effort. And that team did a
17 fantastic job.

18 Investments in the grid are absolutely making
19 a difference. As mentioned, over two million
20 customers were impacted by Hurricane Ian. We had
21 over two-thirds of those customers -- customers
22 restored after the first full day of restoration.
23 Three-quarters of our customers were restored after
24 the second full day of restoration. And all
25 customers that could safely receive power were

1 restored in eight days.

2 For Hurricane Nicole, over half-a-million
3 customers were impacted, or close to half-a-million
4 customers were impacted. And we were essentially
5 restored with all those customers that could
6 physically receive power within 24 hours of Nicole
7 exiting the state of Florida.

8 In addition to our -- our storm hardening
9 investments as part of the Commission-approved
10 storm protection plan, those were a major factor.
11 We also had our pre-staging strategy worked out
12 very well throughout our service territory, with
13 our hardened facilities allowing us to get our
14 resources out to the heavily damaged areas right
15 away and start restoring, and -- and also doing our
16 patrols and assessments of the grid.

17 We also work around the clock. We've got a
18 robust team that works throughout the night. We
19 utilize not only our FPL employees, but our
20 embedded contractors that are familiar with our
21 territory to do night work to continue that
22 restoration effort 24 hours a day.

23 Smart Grid devices are also making an impact.
24 We've got our automatic feeder switches, automatic
25 lateral switches, automatic transformer switches,

1 fault current indicators. For example, they are
2 allowing us to restore customers quicker, but also
3 avoiding outages for customers. So we had over
4 400,000 outages avoided during Ian, and over
5 150,000 outages avoided during Hurricane Nicole.

6 So I would like to highlight a few areas that
7 went well.

8 Our substation monitoring program continues to
9 work well. That was a lessons-learned from Super
10 Storm Sandy in the northeast. So we've got flood
11 monitors at our flood stations that we, again, used
12 -- utilized those last year in the storm season to
13 proactively deenergize substations that were
14 flooding. That allows us to restore much faster as
15 the floodwaters recede without having to replace
16 damaged equipment.

17 Every year we plan for a Category 4 or higher
18 with our inventory. I am happy to say we had no
19 inventory challenges last year, and were actually
20 able to support some of our -- our neighbor
21 utilities with some of the equipment that they
22 needed.

23 In most cases, we met or exceeded -- we met
24 and, in most cases, exceeded our estimated times of
25 restoration.

1 As mentioned, our transmission grid in this
2 area was all concreted or steel. We had zero
3 transmission structures impacted by either storm,
4 which really helped us focus on the distribution
5 side for restoration. That was a big help in our
6 effort, and went very well.

7 We significantly improved our presence in the
8 field with our customer advisory teams getting,
9 again, folks out into -- out into the heavily
10 damaged areas so customers had someone they could
11 speak with every day to understand what was
12 happening and what the status was.

13 And then finally, our first deployment of
14 FLPAir One, our fixed-wing drone, made its it
15 maiden voyage for storm response during Hurricane
16 Ian. Hats off that team as well. We live-streamed
17 the Air One feedback into our command center.

18 Every time that drone went up in the air, we
19 had a new idea of what we wanted to see. For
20 example, overlay of streets. The next time they
21 went up, there were the streets overlaid. And we
22 asked for our grid to be overlaid on what -- on
23 what the Air One was showing us. The next flight,
24 there was our grid.

25 So that continues to evolve, and just really

1 excited about, you know, what that drone is going
2 to do for us in the future with our ability to
3 patrol following a storm.

4 We always look at lessons learned, not only
5 during a real storm, but also during dry run. Ian
6 and Nicole were no different. Those were of two
7 arguably our best restoration efforts, and we have
8 a laundry list of items that we want to improve on.

9 Some examples of those, we want to review
10 vault designs. How can we better secure some of
11 our underground equipment to make sure they can
12 perform better during -- during surge or flood
13 conditions?

14 We have over 100 staging sites predetermined
15 throughout the state that we utilize during storm
16 events. We did have some flooding issues on the
17 west coast, so we are reevaluating those sites to
18 see if we need to either take action at those
19 sites. Do we need to pave or do something there to
20 help with flooding, or do we need to identify some
21 additional sites in the area that we can utilize.

22 Also, communication was a challenge in certain
23 areas, at hardest hit areas. We do -- we were able
24 to utilize from the state some Starlink units.

25 Those worked very well. So we are continuing to

1 evaluate new technology that we can use for our
2 communication out in the field to be able to bring
3 that back into our command center.

4 And finally, my last slide here is just a big
5 thank you. We certainly did not do this alone. I
6 want to thank all those that helped support us.
7 Our in-state employees, our in-state contractors,
8 out-of-state folks that came and supported us,
9 Highway Patrol, local law enforcement, all those
10 folks that helped us get through and get Florida
11 back on our feet, but also restore all of our
12 customers.

13 And with that, that's the end of my
14 presentation. I want to thank you and happy to
15 take any questions.

16 CHAIRMAN FAY: Great. Thank you, Mr.
17 Pankratz.

18 Commissioners, we will take any questions for
19 Mr. Pankratz with Florida Power & Light at this
20 time.

21 I just have a quick question for you on the
22 supply side. I think it's slide 17, you got the
23 pre-storm equipment inventory part of it.

24 I was just curious, I know there has, you
25 know, been discussion in the past that you have all

1 of this preparation, and as a large utility, you
2 are able to have a descent amount of backup supply
3 for things that you need. It's really a two-part
4 question.

5 The first is, is the supply chain issues and
6 some of the things we saw historically during the
7 pandemic, and that type of a thing, is that -- is
8 that more on the risk of a second storm that comes
9 fairly quickly behind a first storm? In other
10 words, it sounds like you -- your supply is ready
11 for that initial response, but then refilling
12 that -- that pre-storm kind of backup, is that --
13 is that something that you look at?

14 MR. PANKRATZ: We do. Like I -- as I
15 mentioned, it's -- it's, at minimum, a Category 4,
16 often much higher what we are looking for.

17 An example last year was we had, you know, a
18 Category 4 storm with Ian followed by a Category 1
19 storm with Nicole, and did not have any issues.
20 But of course, that is -- that's always a concern
21 to backfill that -- that equipment.

22 There is -- there is processes for us to do
23 that, a material mutual assistance, for example, is
24 something we could potentially utilize if we needed
25 to.

1 CHAIRMAN FAY: Great. So you have other sort
2 of other options and resources other than just --

3 MR. PANKRATZ: That's correct.

4 CHAIRMAN FAY: Yeah. Okay. Great.

5 And -- and the other is I think about the
6 supplies that you have available. If -- if we are
7 -- we are fortunate enough not to have a large
8 storm hit for a cycle, are -- are those supplies
9 that become dated fairly quickly or are they things
10 that, over time, can still be used in response to
11 storms?

12 And I only sort of jokingly mention this, but
13 I think of, like, every time I go to Costco, right,
14 I buy, like, the really large thing of, you know,
15 ketchup, right, and two years later, like, I still
16 have the ketchup there and it's not good anymore.
17 Like, do you have assets that have timelines that
18 they essentially you would not be able to use them
19 after a certain time period?

20 MR. PANKRATZ: I would say we go through
21 enough inventory with all of the efforts we are
22 doing with -- with hardening and other -- and other
23 things. So that's part of the plan. We do have a
24 plan to deploy material that was not utilized
25 during a storm as soon as storm season ends, that

1 it does get deployed out into the field and we
2 replenish that accordingly. I don't believe that
3 we have any concerns there.

4 CHAIRMAN FAY: Okay. Great.

5 Commissioners, any questions?

6 Yeah, commissioner La Rosa, you are
7 recognized.

8 COMMISSIONER LA ROSA: Thank you, Chairman.

9 And great presentation. Much appreciate the
10 time.

11 It seems like flooding was maybe kind of, you
12 know, a new take away from this -- from this storm
13 that maybe we hadn't experienced in previous
14 storms.

15 Specifically your Air One, it's really an
16 asset, right, to be able to get out there, and like
17 you are saying, every time you guys deployed it
18 that there was something new and different. Is
19 this something that you guys would utilize maybe in
20 territories that -- that is not an FPL territory
21 but maybe a neighboring electric company might --
22 might need to use it? I am assuming that you may
23 be the only one that has a machine like this.

24 MR. PANKRATZ: We do. That's a great
25 question. That has come up several times. We are

1 -- we are looking at that, the opportunity to be
2 able to leverage that technology to help others as
3 well. It's something we are certainly looking
4 into.

5 COMMISSIONER LA ROSA: Thank you.

6 CHAIRMAN FAY: Great. All right.

7 Commissioners, seeing no other questions for
8 Florida Power & Light, we will move into our next
9 presentation. We will have Geoff Haslett from Duke
10 Energy provide an update.

11 Mr. Haslett, I think your -- and if you hit
12 the next button, you should be on your -- your
13 proper slide there.

14 You are recognized.

15 MR. HASLETT: Thank you.

16 Good morning. I am Geoff Haslett with Duke
17 Energy. I have been with the company for a little
18 over 16 years now. I have held various craft
19 leadership roles throughout our power generation
20 organization. I have worked as a control room
21 supervisor within our Florida Distribution Control
22 Center. And then most recently, Manager of
23 Emergency Preparedness. It is a pleasure to be
24 here this morning and present on behalf of Duke
25 Energy.

1 A little background on Duke Energy Florida.
2 We serve approximately 1.9 million customers
3 throughout 35 counties. We have -- our service
4 territory spans nearly 13,000 square miles. We
5 have approximately 5,200 miles of transmission
6 lines, 18,000 miles of overhead distribution lines
7 and 14,000 miles of underground distribution cable.
8 We have the capacity to produce nearly 11,000
9 megawatts of electricity throughout our fleet of 22
10 generating sites.

11 So we prepare for all types of events
12 year-round. Outside of our annual storm drill, we
13 have a plethora of annual readiness activities that
14 we focus on to ensure we are prepared to respond.
15 A few of those include our critical customer list
16 review. So each year, we capture a list of all of
17 our critical customers to ensure that we have a
18 prioritized list of any restoration needs that
19 might occur. That is also fed into our critical
20 customer list -- critical feeder list, I am sorry,
21 which is a fool tool that is used within each ops
22 during restoration.

23 We assess all of our business continuity plans
24 to ensure any lessons learned or updates that have
25 occurred from the prior storm season. And we kick

1 off our annual retiree recruitment process. We
2 review all of our staging sites. We have
3 approximately 70 staging sites throughout our DEF
4 footprint. And each one of those are physically
5 assessed prior to storm season to ensure it is
6 ready to be activated.

7 We also provide mid-level training. And then
8 lastly, everyone at Duke Energy has a storm role.
9 So prior to storm season, we ensure that everyone
10 knows what their roles and responsibilities
11 include, and that they are ready to respond.

12 DEF conducted a three-day storm drill this
13 year, an overview of that. We reviewed our
14 incident management team. That gave everyone a
15 better understanding for the storm role that they
16 have and how they fit into the overall restoration
17 process.

18 Our finance section chiefs reviewed storm
19 charging guidance for what can and cannot be
20 charged to storm accounting.

21 We also provided training for all of our storm
22 response tools. So our damage assessment tool, our
23 resource time and exception tracker, recruit
24 tracker, and then all of our estimated time to
25 restore calculators.

1 Our meteorology team gave an in-depth overview
2 of the 2023 season projections. We went through
3 the process of activating and assigning resources
4 to our staging sites. Transmission and
5 distribution worked through a joint effort ETR
6 campaign, and the communication strategies through
7 our public information officer. And then we also
8 reviewed the mobilization and demobilization
9 process.

10 So how does Duke Energy restore power during
11 an event?

12 Public safety and critical infrastructure are
13 our top priorities during any restoration effort.
14 We dedicate several of our Duke Energy bucket
15 trucks to any impacted EOCs during an event to
16 ensure rapid response to critical infrastructure.

17 During the initial days of -- during the
18 initial day of restoration, we will primary focus
19 on our largest devices first. So most of our
20 critical customers are off of our feeder backbones,
21 therefore, we try to get those reenergized as
22 quickly as possible. We will also factor in
23 customer duration if restoration does begin to span
24 across multiple days.

25 And customer communication is one of our

1 primary focuses during any restoration. We will
2 often send specific outage communication through
3 our outbound messaging platform that could be used
4 to inform customers of any restoration delays due
5 to severe circumstances or flooding.

6 And lastly, crew efficiency is vital to the
7 restoration process, so all of our storm processes
8 ensure that one group does not hinder the work of
9 another.

10 Duke Energy Florida has completed a
11 significant amount of storm hardening throughout
12 our system, and we have seen that pay dividends for
13 both large and small scale storms. When we look at
14 the storm hardening process, we install
15 sectionalizing devices based on the criteria of 400
16 customers, three miles of line, two megawatts of
17 load.

18 We currently have around 63 percent of our
19 customers on automation, and nearly 48 percent on
20 self-healing grid. By the year-end 2025, we
21 anticipate having 100 percent of our customers on
22 automation, and nearly 80 percent on a self-healing
23 grid.

24 As I previously mentioned, these smart devices
25 add a great deal of resiliency to our system.

1 During Hurricane Ian, our grid self-restored nearly
2 166,000 customer outages, and saved approximately
3 196 million customer minutes of interruption.

4 During Hurricane Nicole, our grid automation
5 self-restored nearly 55,000 customer outages, and
6 saved nearly 13 million customer minutes of
7 interruption.

8 During Hurricane Ian, we had over 9,000
9 resources out in the field restoring power. A
10 large number of those resources were acquired
11 through our mutual aid agreements. We are an
12 active member of the Southeastern Electric
13 Exchange, the Edison Electric Institute, the
14 Florida Coordinating Group, and then we have
15 numerous annual contracts for line vegetation
16 management, logistics and damage assessors.

17 During an event, if additional resources are
18 needed, we will first turn to our partners in the
19 Carolinas and midwest. If they are not impacted by
20 the same weather system as we are, then they can
21 often send us a complement of their resources to
22 restore power here in Florida.

23 We will also engage our native line and VM
24 contractors who perform work for us on blue sky.

25 And then lastly, if additional resources are still

1 needed, we will then turn to one of the mutual aid
2 agencies for further support.

3 The picture on this slide shows our material
4 lockers. We have 17 sets of lockers -- 17 sets of
5 10 lockers that are staged strategically throughout
6 or DEF footprint. On blue sky days, our crews will
7 utilize this material as working stock within their
8 op centers. And this does help to ensure that the
9 material stays within our current work standards,
10 and also maintains the adequate shelf life.

11 During times of red sky, the lockers will be
12 completely restocked, packaged up and deployed to a
13 neighboring staging site.

14 Each operation center also is supplied with
15 backup storm kits, which then they will bring down
16 and package, and can be used for any crews working
17 out of that op center.

18 We have a guaranteed 90-day supply of all the
19 materials that are kept in those lockers. And the
20 decision for what components to put in those
21 lockers is based on data collected from prior
22 storms of our high usage materials.

23 And then we also have a separate inventory for
24 our larger materials for both blue and red sky.
25 Our red sky materials would not be used for daily

1 work activities.

2 So a big piece of our annual readiness
3 includes meeting with each county EOC prior to
4 storm season commencing. As we have seen in prior
5 storms, that constant flow of communication out of
6 the county EOCs and into our storm rooms is what
7 makes restoration successful.

8 We also partner with many EOCs throughout the
9 year to work through internal drills of their own.
10 An example of that would include a recent drill
11 that we held with Orange County that was a power
12 restoration event that we worked in tandem
13 together.

14 And the picture of this on this slide shows
15 one of our live line and safety demos that we held
16 with Pasco County utility workers earlier this
17 year. And those types of events are available to
18 any county upon request, and it gives us an
19 opportunity to share some of our safety best work
20 practices with other utility workers.

21 So we want to always ensure that our customers
22 are just as prepared as we are. We use several
23 different communication mediums to communicate this
24 information. First, we will issue press releases
25 to inform customers of an approaching weather

1 system. We will also communicate with our customer
2 -- customers through social media. And then we
3 have the ability to -- for direct customer
4 communication, which allows us to send more
5 specified communication to individual customers, or
6 a large group of customers.

7 So what happens after the lights go out? So
8 customers will first receive an initial out
9 campaign letting them know that we are aware of
10 their outage.

11 The second notification they receive is an
12 estimated time to restore campaign. This is where
13 they will receive most of their information related
14 to the cause of the outage, the crew status, and
15 any updates to their estimated time to restore.

16 And then lastly, customers will receive a
17 restoration campaign once their power has been
18 restored. This gives them the ability to respond
19 to a text message if they are still out of power,
20 and then that information is fed into our outage
21 management platform.

22 The third-party attachers, so we have
23 approximately one million poles throughout our
24 distribution system. Nearly 80 percent of those
25 have a third party attachment. And a little over

1 one-and-a-half percent of those include poles owned
2 by other utilities where our distribution wire is
3 attached.

4 During blue sky, we will work through our work
5 management system, our work management process, to
6 coordinate with a joint use affiliate to schedule
7 any necessary repairs. We also maintain after
8 hours phone numbers so we can quickly respond and
9 communicate with third-party -- third-party
10 affiliates during any emergent restoration needs,
11 such as vehicle accidents, et cetera.

12 During read sky, we will make an attempt to
13 contact the joint use affiliate. However, if that
14 contact is unsuccessful, we will go out and make
15 any necessary repairs in order to restore power.
16 That process does not impact our ability for
17 restoration times. And then we will then work with
18 the third-party attacher during times of blue sky
19 for any cost alignment that might be needed.

20 For our distribution and vegetation management
21 program, we trim our feeder backbones on a
22 three-year cycle, and all of our laterals on a
23 five-year cycle. We ensure that all of our annual
24 hurricane hardening is completed by June 1st of
25 each year.

1 During 2022, we supported vegetation
2 management work for nearly 8,500 customer requests,
3 7,300 new design work orders, and we removed nearly
4 14,000 trees that caused threats that could cause
5 potential threats to our distribution system.

6 For our transmission vegetation management
7 program, a slightly different approach than what we
8 used on a distribution side. It's more of a
9 data-driven approach. Threats are identified
10 through patrols, inspections and assessments. And
11 this typically allows for a six-year regrowth
12 cycle, and supports all of our minimum safe work
13 distances.

14 We use a LiDAR scanning technology, which can
15 take measurements through vegetation growth to
16 determine areas that need trimming. And LiDAR is
17 an acronym for light detection and ranging. And
18 during 2022, we trimmed slightly over 500 miles of
19 transmission lines.

20 For our distribution pole inspection process,
21 we inspect our distribution poles on an eight-year
22 cycle. Last year, we inspected just shy of 160,000
23 poles, with less than one percent of those being
24 priority ground line rejects.

25 For transmission, we inspect our wood poles on

1 a four-year cycle. Our steel, concrete and lattice
2 towers are inspected on a six-year cycle. And last
3 year, we inspected just shy of 1,400 wood poles and
4 3,300 structure towers, with less than one percent
5 of our wood poles being priority ground line
6 rejects.

7 So we perform an after action review for all
8 of our major storms, including any of our internal
9 drills. Our objective is to learn from our
10 mistakes and make our processes that more efficient
11 for next time around.

12 A few items from the 2022 storm season that
13 stuck out at us includes the pre-staging of crews
14 outside of the storm's path. So we want to always
15 ensure that we get our resources turning wrenches
16 as quickly as possible on day one of restoration.
17 However, we also want to ensure the safety of our
18 crews. So being strategic in the staging sites
19 that we activate and finding that right balance of
20 pre-staging prior to a storm.

21 The second, bussing transportation to and from
22 hotels. So during Hurricane Ian, this was an issue
23 that we ran into during -- down in Pinellas County.
24 On day one of restoration, the busses would not
25 travel due to high wind speeds, so we had to find

1 alternative ways to get our crews from the hotels
2 back to their staging site. So looking at some
3 other options for transportation.

4 The third, hotels versus sleeper trailers. We
5 did conduct an in-depth analysis to better
6 understand the use of hotel rooms versus sleeper
7 trails. So you have cost versus wrench time,
8 versus pre-staging of crews, and all of that
9 factors into crew efficiency. So when does crew
10 efficiency outweigh the added cost of sleeper
11 trailers?

12 And the fourth, traffic conditions once
13 roadways reopened. So this primarily came from our
14 Lee County deployment. During the first few days
15 of restoration, we did not have any issues with
16 traffic and getting crews to and from the staging
17 site. However, as people continued to get out and
18 do their own damage assessment, roadways were
19 beginning to reopen. Traffic conditions did hinder
20 our ability to get the crews to and from the
21 staging site efficiently. So looking at, again,
22 some other options there, potentially staggering
23 our start and stop times.

24 And then lastly crew rostering. So we are
25 working toward a more efficient method for

1 onboarding our off-system resources. We currently
2 have reduced a two-step process down to a one-step
3 process. And then our goal is to minimize
4 rostering errors on behalf of the vendor to ensure
5 that it's easier for us to release the resources to
6 either another utility, or get them headed home as
7 quickly as possible.

8 I will stop there for any questions.

9 CHAIRMAN FAY: Great. Thank you.

10 Commissioners, any questions for Duke?

11 I have just got a few quick ones for you.

12 On Slide 11, you talk about the live line demo
13 that you do.

14 MR. HASLETT: Yes.

15 CHAIRMAN FAY: I am really curious in that I
16 know I grew up with storms, and even as a kid,
17 you -- you walk outside your house after a storm
18 hits to see what sort of damage there is, and I
19 think there is probably a lot of uncertainty as to
20 where people can and can't walk, and what those
21 dangers are. Is that something that you see the
22 counties accepting and, like, the request is out
23 there that you provide this demo, but, I mean, how
24 many respond and say that they see it, or are there
25 other avenues that you can produce the demo?

1 MR. HASLETT: So over the past few years, we
2 have seen a significant increase in counties
3 requesting those live line and safety demos. We've
4 had several requests lately, and it is very
5 beneficial.

6 Our safety department goes out and does a
7 presentation on if you see -- you know, how to
8 respond if you see a wire on the ground. And then
9 it also gives other utility workers, you know, a
10 better understanding for some of our best
11 practices.

12 CHAIRMAN FAY: Great. And do you do it
13 outside of the county request?

14 MR. HASLETT: We have done them outside of our
15 service territory.

16 CHAIRMAN FAY: Okay. Great.

17 The other question I had for you is you
18 mentioned the LiDAR, on slide 16, for the
19 vegetation. Just -- you don't need to go into all
20 the sort of details of that or anything
21 proprietary, but just in general, help me
22 understand how you -- so utilities sort of visually
23 would assess a vegetation issue on a line
24 previously, does the LiDAR make that process easier
25 or faster?

1 MR. HASLETT: So I am not in the transmission
2 vegetation program, but we do ride out all of our
3 transmission lines each year, and the LiDAR
4 technology helps us for those that go through
5 swampy areas that are more difficult to access. So
6 a combination of patrols in person, and then the
7 LiDAR technology is how we identify threats.

8 CHAIRMAN FAY: And that's typically something
9 -- and you may not know this -- on a ground vehicle
10 that's provided, or is it something also done --

11 MR. HASLETT: I would have to look into that
12 and get back with you.

13 CHAIRMAN FAY: Okay. Great.

14 And then the last question I had for you is on
15 slide 19, you had some information about the pole
16 inspection cycles. And I know that's pretty
17 standard, as we see that, your cycles on the wood
18 pole.

19 On the transmission side, as utilities shift
20 to the steel and concrete, it says it's a six-year
21 cycle on those poles. I was just curious if there
22 -- I know there is a sound and bore test for the
23 woods poles for -- is there some equivalent on the
24 steel or concrete poles? I mean, how are you --
25 how are you testing those? Does that take a long

1 time? And is it something where typically a visual
2 is sufficient to say that pole is -- is not
3 probable particular and you are able to move on?

4 MR. HASLETT: So we -- we inspect our -- our
5 wood poles are inspected on a four-year cycle. And
6 then the lattice towers, concrete and steel poles
7 are inspected on a six-year cycle.

8 As far as the sound and bore, I don't have
9 that number with me, but I can look that up for
10 you.

11 And again, I am not super familiar with our
12 inspection process, but that is information I can
13 get for you.

14 CHAIRMAN FAY: Okay. Yeah. Great.

15 I think -- I think, you know, I don't need a
16 ton of detail on it. I just as -- as -- as we -- I
17 mean, I think it's a success story when we hear
18 from utilities, hey, on the transmission side, you
19 know, the -- the lines are -- the poles are
20 essentially concrete or steel. I mean, they have
21 been -- been replaced. And so the distribution is
22 a different story, but I think that's really key.

23 And so I think part of that you would think is
24 it extends, sort of, inspection times for the poles
25 because they are less likely to -- they have a

1 lower failure rate in general. But that might be
2 an industry standard, and so, you know, you guys
3 might be following something nationally that's been
4 done. But yeah, any details that -- that you guys
5 have that on that would be great.

6 And I think that's all that I have for Duke.

7 Commissioner, any -- any other questions for
8 Duke? No, seeing none. Thank you so much.

9 We will move onto your next presentation,
10 Mr. Ed Mora will be presenting on behalf of TECO.

11 You are recognized.

12 MR. MORA: Good morning, Commissioners. My
13 name is Ed Mora. I am the Director of the Energy
14 Control Center for Tampa Electric. My
15 responsibilities include the transmission control
16 room, the distribution control room, the trouble
17 department, which also includes storm restoration.
18 We are excited about sharing some of the things
19 that we are doing that has us prepared for the
20 upcoming hurricane season.

21 Tampa Electric's vegetation management program
22 combines a continuation of our existing filed and
23 approved distribution and transmission plan.

24 For distribution in 2022, we completed year
25 two of a four-year cycle for feeders and laterals.

1 You can see we trimmed about 1,400 miles and
2 removed 548 hazard trees. In addition to these
3 miles, we performed vegetation management on 683
4 distribution miles as part of our storm protection
5 plan.

6 For transmission in 2022, we are on a two-year
7 cycle, and we trimmed 514 miles, and mowed over
8 6,600 acres of right-of-way.

9 In addition to vegetation management, we also
10 perform wood pole inspections. Our wood pole
11 inspection initiative is part of a comprehensive
12 program initiated by this commission for Florida
13 investor-owned utilities to harden the electric
14 system against severe weather. Tampa Electric has
15 approximately 311,000 distribution lighting wood
16 poles appropriate for the inspections run in
17 eight-year cycle targeted for distribution
18 inspection, and we inspected over 35,700
19 distribution poles in 2022.

20 For transmission, our eight-year inspection
21 approach includes the above-ground structure
22 inspection, the ground line wood inspection, the
23 annual ground patrol, the aerial infrared patrol,
24 the preclimb inspection, and the annual substation
25 inspection. You can see we inspected about 400

1 transmission poles in 2022. You will know that 130
2 of those poles failed its inspection criteria.
3 That failure percentage rate is higher than the
4 recent failure trend, and is taken in the context
5 of an overall hardened system that consists mostly
6 of steel and concrete transmission structures,
7 about 87 percent.

8 Our proactive decisions, dating back to the
9 early 1990s, to discontinue the use of wood poles
10 has resulted in a hardened transmission system with
11 only a small and dwindling percentage of older wood
12 poles. Under Tampa Electric's storm protection
13 plan, the company is planning to harden all
14 remaining wood transmission poles by the year 2029.

15 Next we want to focus our conversation on our
16 SPP hardening and reliability projects.

17 First, I would like to share that storm
18 hardening efforts by Tampa Electric are making.
19 Hardening is working. We are pleased to report for
20 Hurricane Ian that we experienced zero outages as a
21 result of failed assets that were hardened or
22 undergrounded through SPP.

23 Our storm protection plan sets out a
24 systematic approach to storm protection focused on
25 those projects that provide the highest level of

1 reliability benefits for the lowest relative cost.
2 2022 was the third year of the company's 2020
3 through 2029 plan.

4 The program focuses on increasing the
5 resiliency and the sectionalizing capabilities of
6 the distribution electrical system to better
7 withstand extreme weather and minimize outages,
8 outage durations and affected customer counts.

9 In 2022, we hardened over 520 transmission
10 structures by proactively replacing the wood poles
11 with nonwood material, and replaced or upgraded
12 over 1,100 distribution poles. Additionally, to
13 minimize customer outage counts, we installed 38
14 three-phase reclosers and 200 single-phase
15 reclosers.

16 As part of our grid modernization strategy in
17 vision 2025 initiatives, we are striving to provide
18 a more resilient grid that provide an always-on
19 world class customer experience.

20 To establish robust communications between the
21 distribution network devices and the energy control
22 center, we have begun the design of a private
23 long-term evolution known as LTE network. This
24 network will enable distribution automation in the
25 fault location isolation service restoration

1 control.

2 Additionally, part of the grid mod initiative
3 is the design and construction of a new state of
4 the art hardened energy control center. Our
5 current ECC has reached its end of useful life as
6 our grid control center, and is approaching 40
7 years old, using 1980s technology and building
8 codes.

9 The new control center, when completed, will
10 provide improved storm resiliency with a location
11 that is 12 miles inland, and at a higher ground,
12 and will enhance our ability to provide interrupted
13 service to our customers, and we are targeted to
14 move in in 2025.

15 Next I would like to discuss our storm plan
16 changes and our mock storm.

17 Our automatic crew call-out and resource
18 management software system is fully functional for
19 assembling and tracking our internal and foreign
20 resource repair crews as part of our storm
21 restoration process.

22 Additionally, to improve our ability to handle
23 a large influx of foreign crews, we have signed
24 service level agreements with three turnkey
25 logistics providers to implement base strategy.

1 That would include things like sleep trailers,
2 on-site meals, laundries and showers.

3 In April, we conducted a cross-functional
4 review with the internal business units and
5 third-party providers at our five restoration
6 locations that are utilized for storm restoration
7 efforts, and our detailed base camp layouts have
8 been produced and shared within the group to
9 improve the effectiveness of initial deployment.

10 For 2023, a series of hurricane preparedness
11 mock storm exercises were conducted internally in
12 April and in May. The focus of the exercises was
13 familiarizing team members with the procedures and
14 exercise full activation of our logistics support
15 unit and our unified command for both energy supply
16 and electric delivery.

17 An exciting component of that exercise was the
18 effort of our distribution control center and the
19 storm restoration teams. A series of separate
20 planning sessions were conducted to fine-tune our
21 process in coordination with the restoration
22 process itself. Examples of that would include the
23 ETR team, wire down teams, and interfaces with our
24 customer experience team and our key account
25 representatives.

1 And finally, this year we are developing a
2 communication strategy for amateur radio protocols
3 and enlisting certified amateur radio operators
4 within Tampa Electric to provide backup
5 communication with all four counties served by
6 Tampa Electric.

7 As noted in the last two years, another
8 noteworthy improvement for storm preparedness and
9 restoration for Tampa Electric has been the
10 implementation of our advanced distribution
11 management system, which the industry refers to as
12 ADMS. Tampa Electric transitioned to the live cut
13 over in April of 2021, and to an upgraded, newer
14 version just this past weekend. The upgraded
15 version provides improved functionality for
16 switching orders and back office archive
17 performance processes, and allows us to develop and
18 integrate advanced applications, such as
19 distributed energy resource management. And the
20 ADMS also improves our reporting capabilities to
21 our local emergency operation centers and for the
22 Commission's purposes.

23 For our storm preparedness, we have also
24 seasoned mutual aid agreements in place with many
25 active decades of membership in the Southeastern

1 Electric Exchange and with the Edison Electric
2 Institute. We also have agreements with
3 municipalities within the state of Florida.

4 We have established business process across
5 company affiliates and contractors to assist in
6 processing a portion of the outage call traffic
7 during electric service restoration, and we used
8 this process successfully during the Hurricane Ian
9 restoration.

10 Each year during this time we ramp up our
11 stock on commonly used material for storm
12 restoration. We call it 911 stock. In the event
13 of a major storm response, we can lean on our
14 Southeastern Electric Exchange mutual aid partners
15 to address specific material needs, and we would
16 manage the best we can to mitigate any potential
17 restoration delays. Restoration for us takes
18 priority over new construction and proactive storm
19 hardening.

20 Each year we are invited to participate in a
21 variety of communities outreach events to promote
22 hurricane preparedness, and thus far, we have
23 participated in events at the MacDill Air Force
24 Base, the City of Oldsmar, Hillsborough County,
25 Tampa Fire & Rescue, and other upcoming events.

1 And finally, we annually review our list of
2 critical customers, and have updated our
3 restoration priority list for 2023.

4 Our external communication templates have been
5 prepared and reviewed for this year, which includes
6 the pre-storm, the post-storm and generator safety.

7 We have our internal emergency operations
8 center staffing plans updated for this year, and
9 have enough resources to staff at each county and
10 municipality served.

11 We consider one of the most important tools
12 for hurricane preparedness is customer
13 communications. We strive to communicate
14 proactively with accurate and useful information.

15 For unplanned outages, we have three customer
16 communication campaigns. First, proactive
17 notifications. We acknowledge we are aware of a
18 new outage, and provide any known information,
19 including the initial time for restoration, the
20 estimated time for restoration, the number of
21 customers impacted, cause and status.

22 Second, the ETR update. We notify our
23 customers if the ETR has been changed for more than
24 two hours.

25 And third, restoration notifications. We

1 notify our customers when an outage has been
2 restored.

3 All campaigns providing information out of the
4 ADMS are sent to our customers according to their
5 channel preference. That would be, like, call,
6 text, email me, or do not contact me at all, and
7 preferred language, English or Spanish.

8 We recognize that storm and outage events are
9 stressful for our customers, and one way to assist
10 our customers is to continue to communicate during
11 these times. To enhance our customer interaction,
12 we display continuous updates on our
13 tampaelectric.com website for additional
14 information. We have banner messaging addressing
15 the weather and restoration efforts. Any available
16 ADMS data is displayed on the map so customers can
17 monitor their outages. They get updates
18 information tray on the map, provides information
19 how to text us, or sign up for outbound
20 communication preferences. And we also place
21 broadcast messaging to play at the start of our RVR
22 to provide any important storm information.

23 And last, we review our lessons learned. We
24 have added more field and dispatching resources to
25 our wire down team to address life safety issues

1 promptly. And we have also updated our internal
2 business processes for the wire down team.

3 We annually train our internal and external
4 management teams to operate the incident bases and
5 our base camps. And one of the recent lessons
6 learned discussed at the Southeastern Electric
7 Exchange Mutual Aid Conference is how safety
8 orientation is provided during the onboarding
9 process of foreign crews.

10 We implemented this remote mobile approach
11 during Hurricane Ian activities, which allowed
12 foreign crews to be immediately available for
13 customer restoration upon arrival in our service
14 territory.

15 As mentioned earlier, we have signed logistics
16 contracts with three turnkey base camp providers,
17 and we have completed the site review for all five
18 of our locations.

19 And finally, the Tampa Electric outage map
20 experienced intermittent technical issues during
21 Hurricane Ian. A comprehensive assessment was
22 created, which resulted in enhancements of the map
23 with expected completion of June of this year.

24 And thank you for your time. I am available
25 to answer any questions.

1 CHAIRMAN FAY: All right. Great. Thank you,
2 Mr. Mora.

3 Commissioners, any questions for Mr. Mora and
4 TECO?

5 I have just got one question for you. On page
6 -- or I should say slide three, you have your
7 transmission line inspection, and you have got
8 number of poles failed there at about 130. And
9 then when you look at the non-SPP replacements,
10 it's about 191.

11 Do you have, is there -- is there overlap from
12 poles that need to be done in the previous year?
13 Like, how come -- how come those numbers, I guess,
14 don't line up?

15 MR. MORA: Yeah, they overlap. So what
16 happens is if they fail their -- their inspection
17 criteria, then we send field representatives, our
18 supervisors out to the field to take, like, another
19 look at that particular structure. And then the
20 will go ahead and prioritize, hey, is this a pole
21 that needs to be completed, replaced this year, or
22 is there something that can be put off until, like,
23 next year? That's why it doesn't match up.

24 CHAIRMAN FAY: Okay. Great.

25 And then just anything in particular on the

1 effectiveness of the aerial infrared? Does that
2 mean something that -- that obviously saves
3 somebody from getting up into a helicopter and
4 looking --

5 MR. MORA: For safety, and also it identifies
6 any hotspots, any kind of hot connections either on
7 the transmission system. We will also use it on
8 the distribution system from time to time, and in
9 our substations. So when do you that, you can find
10 hotspots that you wouldn't see with the naked eye.

11 CHAIRMAN FAY: Okay. Great.

12 All right. Commissioners, any other
13 questions? Seeing none. Thank you, Mr. Mora.

14 We will next move to Jorge Puentes from
15 Florida Public Utilities Company. Your
16 presentation should be next.

17 MR. PUENTES: Yes, it is.

18 Good morning, Chairman and Commissioners and
19 staff. My name is Jorge Puentes. Most people call
20 me George, so I respond to both, and that's
21 perfectly fine.

22 I appreciate the opportunity you give us to
23 share our storm preparedness initiatives with you.
24 As -- as you know, FPU is the smallest IOU electric
25 utility in Florida. We have a natural gas and

1 propane footprint, and we serve about 30,000
2 customers in the Calhoun, Jackson, Liberty and
3 Nassau County areas. We have nearly 16 miles of
4 transmission lines, and we have about 910 miles of
5 distribution lines.

6 I will now proceed to explain to you our
7 overview of preparation and restoration process.
8 We divide this into three stages. The first stage
9 is preparation, the next stage is activation and
10 then the other one is restoration.

11 In terms of the preparation, we are a culture
12 of preparedness, where we consider safety for our
13 customers and employees first. We have -- in this
14 preparation stage, we ensure that our emergency
15 procedures are all in place and active. As a
16 matter of fact, we have combined the northwest and
17 northeast emergency procedures into one document so
18 it's easier to follow by all of us.

19 We ensure that our working conditions in
20 logistics and customer interfaces are effective,
21 and we review our mutual aid agreements. We also
22 do a hurricane preparedness drill, and it's planned
23 to be done in June of '23, this -- in this upcoming
24 month.

25 We focus on lessons learned from different

1 hurricanes, especially Hurricane Michael, which
2 nearly destroyed our northwest division, and also
3 Hurricane Matthew, who we had to evacuate our
4 northeast division.

5 For both of these hurricanes, we have secured
6 several improvements in logics, which we use to our
7 advantage as we continue to prepare for the storm
8 planning.

9 In terms of customer outreach, we have
10 hurricane storm brochures, we make sure that our
11 website is up to date, and we have public service
12 announcements. We also ensure that our
13 communications plans are in place.

14 And depending on the path of the storm, we
15 will provide that kind of information to our
16 employees, and also our customers. We ensure that
17 our IT staff and customer care are engaged, and we
18 ensure that any agreements that we have made with
19 other contractors are in place and ready to
20 execute.

21 Also, we ensure that our system inventory is
22 up to speed and has all the inventory necessary to
23 support the emergency in case it happens. However,
24 we also rely on other electric utilities and mutual
25 assistance companies that are able to help us out.

1 As you recall from last time, Hurricane Matthew,
2 FPL was very instrumental in helping us with the
3 material and resources during that time.

4 In this preparation, we also coordinate with
5 our city, county and EOC and other utilities. We
6 have ongoing communications throughout the company.
7 And we participate in the Southeastern Electric
8 Exchange mutual aid, as well as any agreements that
9 we may have with some of the other municipalities.
10 We currently have an agreement with OUC and JEA,
11 who is also a provider of power to us, in addition
12 to FPL.

13 We also participate in the Electric Edison
14 Institute storm drills.

15 In terms of the activation, we, being that we
16 are electric, natural gas and propane, we alert all
17 of our different divisions, and we keep a storm
18 watch and see where the path of the inventory in
19 the path of the hurricane is going to be.

20 We ensure, again, that the inventory levels,
21 we do visual inspections of our equipment, and make
22 sure that fuel levels are checked, and continue to
23 activate the procedure with storm watch.

24 We secure and contact our EOCs, and provide
25 the necessary employees so that they are available

1 at each county when it's necessary. And we
2 redeploy our call center resources across the
3 state, depending on the path of the storm.

4 In terms of restoration, we use our tools to
5 allow us to focus and organize ourselves. We use
6 OMS and SCADA to prioritize the restoration. We
7 take a look at the physical damage of what has
8 happened, and we send, in advance, tree -- tree
9 crews or any other contractors that we might have
10 brought into the area to be able to clear debris
11 and trees that are in our way of transmission, or
12 substation or distribution lines.

13 The priority that we use is similar to what
14 the other utilities use. We restore generation
15 first our -- is our main focus, then the
16 transmission, then we move down to the substations,
17 and we ensure them -- bringing them back feeder by
18 feeder, and then the laterals.

19 In terms of the restoration for priority of
20 customers, we would like to focus on hospitals,
21 police, fire, EOC, storm facilities, elderly care
22 facilities. And then after that, the water, sewer
23 plants, food and other retail restaurants.

24 Our digital communications efforts are
25 displayed and talked throughout our website. We

1 have one landing page where our customers can go in
2 and receive all the updates or information on the
3 storm. We send them bill inserts, print ads,
4 brochures. And this is, from the feedback that we
5 have received from our customers, they appreciate
6 this kind of information.

7 We also have now the ability to show our
8 customers where the outages are occurring, and they
9 are -- they also appreciate that. And we allow to
10 post also our estimated restoration times whenever
11 we have a good assessment of that.

12 In terms of the storm hardening plans, our
13 vegetation management, we do a three-year cycle for
14 distribution feeders, and a six-year cycle for
15 laterals. Right now, we have completed five total
16 cycles of feeder inspections, and a total of 2.5
17 cycles of laterals. The three-year trim cycle also
18 includes transmission lines.

19 We are currently in the transition of moving
20 from the three-year to a four-year plan for
21 laterals and feeders, and we expect to implement
22 that this coming year. This was approved by the
23 Commission late last year, so we are in the middle
24 of that transition.

25 In terms of our accomplishments of how much

1 distribution we have trimmed this year -- last
2 year, 2022, we completed nearly 31 miles of
3 distribution feeder trimming, as well as nearly
4 85 miles of distribution laterals. These numbers
5 also include any hotspot trimming that gets done in
6 the distribution.

7 In terms of the wood pole inspection, we have
8 an eight-year pole inspection. We have completed
9 1.88 total cycles up to this point. And the
10 transmission is also in the same cycle. We have a
11 transmission inspection, which is done every six
12 years. And then next year, we will be doing our
13 detail transmission inspection.

14 The total poles inspected from the beginning
15 of the eight-year cycle has been 23,629. That's
16 about 88 -- 99 percent of it.

17 The accomplishments for 2022, we have done a
18 total of 3,091 poles inspected. The failure rate
19 of that was 2.04 percent, which is quite lower than
20 when we initially started to do this, which was in
21 the high nines, or close to 10 areas, percentage
22 areas. 63 of these poles failed in 2022.

23 And I would like to make a little note. The
24 poles replaced there says 157, and we have a new
25 update which will be provided in our June filing of

1 our storm protection plan update. That number is
2 165 instead of 157 noted in there. And also, the
3 other number of the poles that need to be replaced
4 in upcoming years is not 459. It is actually 570.

5 In terms of the improvements based on lessons
6 learned, we really learned a lot from Hurricane
7 Michael, which nearly destroyed the northwest
8 division, and also Hurricane Matthew in our
9 northeast division.

10 In 2022, we were lucky because we were mildly
11 affected by Hurricanes Nicole and Ian. But one of
12 the things that we continue to do is to ensure that
13 we order material early due to the supply chain
14 disruptions that continuously occur these days.

15 We usually include now record keepers at each
16 of our working locations to better be able to know
17 what kind of expenditures are occurring in the
18 hurricane.

19 The -- also we would -- we have -- we have
20 seen how other companies use drones to look at
21 their storm, and how much damage has occurred, and
22 we are employing contractors that use drones, and
23 that -- it will help us in the future.

24 We also continue to increase our security at
25 the staging areas to avoid any issues. And we

1 continue to invest in storm hardening initiatives,
2 continue also to invest in our technology, as well
3 as our GIS, OMS and implementations.

4 And at this point, I would like to entertain
5 any questions that you might have. Thank you.

6 CHAIRMAN FAY: Great. Thank you, Mr. Puentes.

7 Any questions for Mr. Puentes?

8 Just one quick question for you. On the --
9 you do a lot of propane service. What does propane
10 restoration look like? I mean, what sort of damage
11 and impact to customers have you seen?

12 MR. PUENTES: I am sorry, can you repeat that
13 question?

14 CHAIRMAN FAY: Your propane service that the
15 utility provides, what sort of damage do you -- is
16 it storage mainly for the propane? Is it -- how
17 are customers impacted, and then how do you,
18 quote/unquote, restore, fix, whatever?

19 MR. PUENTES: Yes, sir. In terms of the
20 propane, it's -- it's a little bit easier to
21 localize the damage, because usually they will have
22 a tank either at the facilities instead of, like,
23 transmission or distribution wires that we have in
24 the electric side.

25 And also on the natural -- natural gas, we run

1 pipes so it's a little more -- but the propane is
2 much easier to deal with because they are very
3 isolated in different areas. Maybe some
4 subdivisions might have a major tank that is in
5 their facilities, and we usually keep track of
6 those major facilities. If it's a whole
7 subdivision that has a big tank, we -- we try to
8 restore those as soon as possible.

9 But the process of restoring natural gas or
10 propane to customers is quite different than the
11 electric. If -- if you have a problem with a
12 natural gas line, or the division -- subdivision of
13 the propane, there is a problem in the transmission
14 line, all of those customers, you have to go to
15 each individual house and turn on their pilots and
16 verify that there is no leaks.

17 In the transmission and distribution side, we
18 can put a feeder back on, and then take a look at
19 the taps, and we are able to energize more people
20 quickly, but in the natural gas and propane, it's
21 quite difference.

22 CHAIRMAN FAY: Do your customers have a higher
23 sense of frustration in those services to be
24 restored?

25 MR. PUENTES: In which one, sir?

1 CHAIRMAN FAY: In natural gas and propane,
2 just based on your comparison.

3 MR. PUENTES: I'm -- I don't really know that,
4 sir. I deal mainly with the electric.

5 CHAIRMAN FAY: Okay. Great. Thank you.

6 Any other questions for Mr. Puentes? Seeing
7 none, we will move -- thank you, Mr. Puentes.

8 MR. PUENTES: Thank you.

9 CHAIRMAN FAY: We will move to -- I am going
10 to try to get this right, LeMoyne Adams, is that --
11 is that how we pronounce it?

12 MR. ADAMS: LeMoyne.

13 CHAIRMAN FAY: LeMoyne. Oh, okay, I was
14 close. All right. So LeMoyne Adams for OUC
15 utilities.

16 You are recognized, Mr. Adams when you are
17 ready.

18 MR. ADAMS: Thank you, Chairman, Commissioners
19 and staff. I really appreciate the opportunity to
20 be here this morning and present to you.

21 So again, my name is LeMoyne Adams. I have
22 been at OUC for 30 years. Started in the electric
23 distribution engineering department. My
24 responsibilities now include electric and water,
25 electric distribution engineers, electric and water

1 construction crews, meter operations and service
2 dispatch.

3 I am going to review our Hurricane Ian
4 experience and response, and how that has helped us
5 with our overall hurricane response and
6 preparedness.

7 So as many of my colleagues have talked about
8 already, Hurricane Ian presented significant
9 challenges for us, mostly in the flooding arena,
10 but we also had significant wind impacts as well to
11 our system.

12 So you can see there the significant flooding
13 that occurred in our territory. And again, that
14 presented many issues and problems for our utility.
15 As I said earlier, I have been at the Commission
16 for 30 years, and during that 30-year period in
17 time, we did not experience any flooding of this
18 kind. So this was something very new to us at OUC.

19 Some of the efficiencies and success factors
20 that we feel helped us through this was we enacted
21 our incident command system five days prior to the
22 storm. We committed to our mutual aid resources
23 very early, and staged those mutual aid resources
24 centrally. Damage assessors were integral and key
25 to our recovery from this storm. And we also

1 worked very closely with our local jurisdictions on
2 flood mitigation and restoration procedures.

3 We also have annual hurricane tabletops. We
4 just completed our hurricane tabletop about a month
5 ago. During that exercise, we stressed our
6 distribution systems, our transmission grid, as
7 well as our water system, financial system, billing
8 systems and chilled water. We also tested this
9 year a cybersecurity attack in the midst of a
10 hurricane, which forced us to result to many manual
11 systems. So all of that definitely helps us get
12 prepared for hurricane seasons.

13 A little bit about planning, operations and
14 resiliency. We are on a three-year vegetation trim
15 cycle for distribution. We trim about 143 miles
16 per year. That's about 1,300 miles total in our
17 system. In 2022, we completed about 94 percent of
18 our planned trim cycle. The reason being we are in
19 the process of converting for from a four-year trim
20 psych to a three-year trim cycle, which we will be
21 complete with that three-year trim cycle in June of
22 2024.

23 For transmission, urban areas on an annual
24 cycle, and the rural areas are on a three-year
25 cycle. We have approximately 213 total system

1 miles for transmission, and we completed 100
2 percent of our planned trim cycle last year.

3 We are also on an eight-year pole inspection
4 program for distribution. Annually, we inspect
5 about 6,696 poles. And in 2024, only about 24 of
6 those poles failed inspection.

7 65 percent of our distribution system is
8 currently underground, and 90 percent of our
9 transmission poles are steel and concrete.

10 Our transmission and distribution facilities
11 are designed and built for hurricane force winds up
12 to 120 miles per hour. So for Hurricane Ian, our
13 poles weren't blown down due to wind speeds, but
14 rather, they were torn down by large branches and
15 trees. And most were leaning due to tension from
16 tree -- tree limbs on the primary spans.

17 We also had three water main breaks during
18 Hurricane Ian that required repair and two
19 precautionary boil water notices. No significant
20 damage was -- was done to our production
21 facilities, transmission lines or substations.

22 Some of our resource highlights during the
23 storm. We did bring in 127 safety inspection
24 resources to conduct damage assessments, and
25 identify any potential issues before crews arrive.

1 That was the largest number of safety inspection
2 resources deployed for a hurricane impacting our
3 system.

4 We also utilized 162 mutual aid line techs and
5 47 mutual aid tree trimming resources, with nearly
6 400 total resources deployed during Hurricane Ian.

7 So at the peak of the storm, we had about
8 97,500 customers out of power. Within the first 24
9 hours we spent on our feeder restoration process.
10 During that time, we restored about 72 percent of
11 the customers affected.

12 The next two days, we went into our lateral
13 restoration phase. We established system-wide ETRs
14 within the first 48 hours, and communicated that
15 out to our customers. At the end of the 72-hour
16 period, we reached substantial completion with
17 about 99.1 percent of our customers restored.

18 The final day of restoration focused on
19 service lateral calls, wire down calls, limb on
20 lines, reinstates and flood related incidents.

21 So again, with all of the flood challenges
22 that we had, we had about 200 residential customers
23 who were affected by the flooding. We had to
24 develop new flood hazard mitigation procedures for
25 isolating and reinstating our customers, since we

1 had not experienced this before. It also required
2 a lot of collaboration between our planning,
3 operations, our PIO, the different EOCs and local
4 jurisdictions.

5 As we all know, logistics is really critical
6 in emergency situations. Prior to 2019, we did not
7 have contracts in place with -- with hotels. We
8 essentially would house our mutual aid crews in
9 hotels, and then shuttle them back and forth to our
10 service yards. We found that to be inefficient.
11 So after 2019, we entered into a contract with
12 Rosen Hotels. That gave us access to about 7,000
13 rooms between the Rosen Center, Rosen Plaza and
14 Rosen Shingle Creek, and also use of their
15 conference rooms and surface parking.

16 So with that model, we are able to onboard all
17 of our mutual aid crews at the hotel. Feed them at
18 the hotel. Train them there. Fuel the trucks.
19 Supply them with materials, and obviously, bed them
20 there and demobilize them there from the same
21 location.

22 So with respect to materials. During
23 hurricanes, we -- we staff up and increase our
24 stock levels similar to that of what we used during
25 Hurricane Charley in 2004. So as far as our -- our

1 material levels with respect to poles,
2 transformers, wires, they are similar for -- for
3 levels that we used during Hurricane Charley in
4 2004.

5 That's kind of the behind the scene numbers
6 there of what we utilized during Hurricane Charley.
7 3,000 snack bags. 6,900 different meals. 1,380
8 pounds of laundry was processed. So about 18,000
9 gallons of gas pumped, and 34, 35,000 inventory
10 items used.

11 Public information is key and critical, as we
12 all know, during hurricanes. Communication with
13 our -- we communicate with our customers prior to
14 the storm season, then we also communicate with
15 them prior to a pending storm, during the storm,
16 and then post-storm. We utilize bill inserts. We
17 purchase media ads, emails, and we also have a
18 dedicated OUC web page on hurricane safety.

19 Just before an actual storm hits,
20 communication is -- communication is centered
21 heavily around safety. Shortly after the storm
22 passes, communication speaks to OUC that we are
23 assessing the system, and also emphasizing that the
24 public should stay away from down power lines.

25 We try to have the entire service area

1 assessed within 24 to 48 hours. At that time, once
2 we know what's -- what's there and what the damage
3 looks like, we can establish our ETRs, which we try
4 to get done within the first 24 to 48 hours. And
5 then once we obtain those ETRs, we communicate
6 those out to our customers. We also communicate
7 when we are complete with our restoration and then
8 we are returning to normal business operations.

9 So during Hurricane Ian, we processed about
10 16,000 outage calls in our customer service area,
11 over 1,200 emails; again, implementing new flood
12 call handling procedures, communicated with our
13 priority customers and key accounts, while also
14 maintaining our billing processes.

15 So we, again, created these call handling
16 process and procedures, and had to train our call
17 center reps so that they could accurately talk to
18 our customers about those.

19 We developed and launched a dedicated web page
20 that explained the processes to customers that they
21 would have to take in order to restore service from
22 flooding. You can see they are simple one, two,
23 three, four steps.

24 We also targeted customers impacted by
25 flooding through alerts and next door. And, again,

1 promoted safety, water and electricity do not mix.

2 Lessons learned. Flooding was definitely a
3 key lesson learned. So we are currently reviewing
4 all of our flood mitigation procedures to ensure
5 that we are operating as safely as possible.

6 We are also changing our mutual aid and
7 response tracking application to help us better
8 track mutual aid resources and internal resources
9 to ensure that we know exactly who is on our system
10 and where at all times.

11 We are also reviewing our policies related to
12 when it's safe for our safety inspection teams to
13 begin inspecting our system for damage, as well as
14 safe wind speeds for our crews to begin -- to begin
15 working.

16 We are exploring the use of drones to assist
17 in the damage assessment process. And we are also
18 reviewing our boil water notification processes to
19 our customers in case we have water main breaks,
20 like we did with Ian.

21 That concludes my presentation. Any
22 questions?

23 CHAIRMAN FAY: Great. Any questions,
24 Commissioners?

25 Okay. Commissioner La Rosa, you are

1 recognized.

2 COMMISSIONER LA ROSA: Thank you.

3 And thank you for the presentation. I once
4 lived in the OUC territory, so I am familiar with
5 the flooding issues, and, of course, still have a
6 lot of friends and family in the area, so followed
7 post Ian, the flood, I think, really kind of took
8 everybody by -- by surprise.

9 Do you anticipate, like, enhanced
10 collaboration with local officials, with their
11 planning departments, them better understanding
12 where maybe your assets are and where your
13 equipment is in the future to either avoid or maybe
14 improve some of the flooding situations?

15 MR. ADAMS: Yeah, that's definitely one of the
16 items that we -- we captured in our lessons learned
17 as well, trying to understand where those
18 floodplains are, and where, you know, we may
19 encounter those situations happening in the future
20 so we can get kind of get ahead of it next year,
21 and -- and better prepare for something like that
22 in the future.

23 So that's definitely something that we plan to
24 do, is coordinate better with our EOCs in the City
25 of Orlando, Orange County and the City of St.

1 Cloud.

2 COMMISSIONER LA ROSA: Thank you.

3 CHAIRMAN FAY: Great.

4 I just had a quick question. Your call-in
5 numbers for Ian are just -- are really high, and
6 then you had sort of, about 1,200 emails, I guess.
7 Is that the primary form of communication that --
8 that customers prefer, or is it just, you know, you
9 haven't adopted some sort of text message or
10 on-line system?

11 MR. ADAMS: No. We -- we found that they --
12 the preferred method is still calling in our IVR
13 system, so they will do that, or -- or -- or
14 emails. We haven't found that they have really
15 gone to, like, social media quite as much, so the
16 preferred method is still just calling OUC.

17 CHAIRMAN FAY: Okay. Great. Thank you.

18 Any other questions?

19 Seeing none, thank you for your presentation,
20 Mr. Adams.

21 Next we will go to Mr. Ruth and Ms. Ryan for a
22 presentation from Lee County Electric Co-Op.

23 MR. RUTH: Thank you, Commissioners. We would
24 like to thank you for being here today and giving
25 us the opportunity to present.

1 My name is Allan Ruth. I started with LCEC in
2 1985. Spent the majority of my time on the
3 operational side of the business, and am currently
4 the Incident Commander for the LCEC Restoration
5 Team.

6 MS. RYAN: Good morning, Chairman and
7 Commissioners. I am Karen Ryan. I am the Public
8 Relations Director for LCEC, and I have been with
9 LCEC for 27 years. So I've seen my share of
10 hurricanes. Previous to that, I was with Lee
11 County government, and I also saw some hurricanes
12 there, but I have never experienced anything like
13 Hurricane Ian.

14 MR. RUTH: LCEC is a member of the Florida
15 Electric Co-Op Association, and one of 16
16 distribution co-ops across the state, which in
17 total serve 2.7 million members.

18 LCEC, we serve portions of six counties across
19 southwest and south Florida. We have 235,000
20 members, 8,800 miles of energized lines, 25
21 substations and approximately 400 employees, with
22 service centers in North Ft. Myers, Lehigh Acres,
23 Immokalee, Belle Meade and Sanibel Island.

24 The areas shaded in yellow represent our
25 service territory of the counties that were

1 previously mentioned.

2 And storm restoration. So the topic for today
3 is the storm preparation and restoration processes;
4 communication with our stakeholders that Karen Ryan
5 will be going over; system resiliency specific to
6 vegetation management and pole inspections; and
7 lessons learned from the 2022 storm season,
8 specifically to Hurricane Ian.

9 So we perform annual drills within LCEC. We
10 do tabletop exercises. We incorporate the lessons
11 learned from previous storms, and we also
12 participated in the FEECA statewide tabletop a few
13 weeks ago, and also had the opportunity to be an
14 observer at FPL at their tabletop.

15 Mutual aid, we have contracts in place to make
16 sure that they are FEMA compliant by June 1st. We
17 also have mutual aid agreements with FEECA, four
18 tree vendors, base camp vendors, and then also 19
19 linemen vendors, which make up 14 distribution and
20 five transmission contractors.

21 We increased material levels to anticipate
22 activities throughout the storm season, and we have
23 storm kids that we put together and set aside in
24 anticipation of that the storm that we don't use
25 for anything but emergency restoration.

1 MS. RYAN: LCEC implements an Omnichannel
2 communication strategy for storm preparedness and
3 response. We start with our employees, and we
4 always focus on safety, but we utilize tools such
5 as email, on-line and phone hotlines, our internet
6 storm center, our subgroup meetings with the
7 restoration team, all of the 200 employees, and
8 then as Allan mentioned, our training exercises.

9 We also know it's just as important to
10 cultivate our relationships before a storm hits
11 with our vendors, suppliers and contractors.

12 External communication begins around March for
13 preparedness messaging, and then year round for our
14 tree wise campaign. During an event, we provide
15 twice daily restoration updates in addition to our
16 ongoing messages related to safety and the
17 restoration process.

18 The tools we utilize for external
19 communications include our website LCEC.net, and
20 our storm center there. Also SmartHub, which is
21 our customer care technology, where members that
22 enroll in the technology can receive alerts,
23 updates, messages and various data related to their
24 bills and hurricane restoration.

25 We have messages on the back of bills. We

1 have customer newsletters, and we -- we utilize
2 advertising when we can't.

3 We also have a comprehensive LCEC hurricane
4 guide that is in digital and print form. And then
5 we participate in pre-storm presentations at civic
6 groups, chambers of commerce. And our vital tool
7 right now, which has changed much since my first
8 hurricane with LCEC with Hurricane Charley, is
9 social media has become a vital tool. During
10 Hurricane Ian, we had a reach of about 10 million
11 stakeholders.

12 Year round, we have government relations and
13 key account representatives. When there is a storm
14 in our area and an EOC is activated within our
15 service territory, we have dedicated
16 representatives at those EOCs. And then we work
17 very closely, we couldn't do it without the support
18 of our local, and during Ian, national media and
19 social media. We participate in their hurricane
20 guides and provide content related to storm
21 restoration and safety. And then we partner with
22 the media for presentations within our community
23 about preparedness. And then during Hurricane Ian,
24 we held about 250 media interviews throughout the
25 event.

1 And one thing -- one message that I just
2 wanted to focus on that I am very proud of is that
3 during Hurricane Ian, we had no lost time
4 accidents. And that was with our employees, and
5 also with our mutual aid. That was the good news.
6 Unfortunately, about 25 percent of our employees
7 lost their homes. Some of them are still
8 displaced.

9 MR. RUTH: So specific to vegetation
10 management, on our transmission system, we do
11 annual visual inspections that we follow up any
12 corrective actions that need to take place. We do
13 reclaim, mostly in our southern rural areas of the
14 system, about 10 miles a year. And we have, in
15 total, about 179 miles of 138 kV transmission.

16 Our distribution feeders that we have, they
17 are currently on a three-year cycle for
18 three-phase, and a five-year cycle for laterals.
19 This program actually initially kicked off in 2004.
20 And at that time, it was on a six-year cycle for
21 three-phase, and an eight-year cycle for laterals.
22 Through continuous planning and funding and process
23 improvement, we have been able to bring those
24 cycles down to where they are at today.

25 Transmission -- excuse me, pole inspections on

1 the transmission, we started hardening program on
2 this, the transmission system, in 2012. And we
3 have been able to bring down our exposure from wood
4 poles to concrete and steel hybrids to the 51
5 structures that we have remaining, and we do have
6 plans to work them off the system as well.

7 The distribution system, we target 16,000
8 poles annually for our inspection. And then poles
9 that will not make it through the next inspection
10 cycle, they go into a prioritization, Priority 2's
11 and Priority 3's. Then we have a targeted pole
12 change-out, where we are changing out about 2,250
13 poles on an annual basis. And then the Priority
14 1's that wouldn't -- that were the most severely
15 eroded will be the ones that we change out during
16 that current year. So we change out about 2,500
17 poles on an annual basis.

18 And the ratio of poles that we have on the
19 system is about 151,000 wood, 16,000, 17,000 in
20 concrete, and remaining are either steel or
21 aluminum.

22 Lessons learned that we had, and this is
23 specific to Hurricane Ian. So the plan that we had
24 in place, the plan had been developed since
25 Hurricane Charley, back in 2004 was the first time

1 we formalized our hurricane restoration plan. And
2 we have incorporated lessons learned through
3 Hurricane Charley and then Hurricane Wilma, and
4 then Ian was a big one just five years ago. During
5 -- excuse me, Irma five years ago.

6 During Hurricane Irma, we brought in
7 approximately 650 external resources on the system,
8 and the plan was designed to manage about 750.

9 Through Ian, we actually brought in, our high
10 watermark was about 2,400 resources that were on
11 the system, and with a total of about 3,000 --
12 2,700 to 3,000 that came on the system. So we had
13 to manage the additional 600, 700 that came in and
14 had to leave because they rotated in and out of the
15 system. So one of the things we had to do is
16 revamp the plan to be able to manage such an influx
17 of resources on the system.

18 The other thing is community outreach. So
19 areas where we did an excellent job of managing the
20 community outreach, we had very positive results.
21 And we want to take the lessons we learned in that
22 and incorporate it into other areas and build upon
23 the success that we had in those specific areas.

24 The other is utilization of contractors and
25 mutual aid outside of the norms. This is where we

1 always managed resources that came in through
2 hotels. And what we found was, in Ian, we had such
3 damage to the hotel facilities, that we lost a lot
4 of the places that we previously had housed those
5 resources. In addition to other influx of people
6 that were coming in, there was a lot of competition
7 for those hotels. So we are moving to the base
8 camp concept, where you can manage, you know, 500
9 to a thousand personnel in one footprint. It
10 worked out very well.

11 The other thing that we did in this event we
12 had never done before, we brought in additional
13 warehouse personnel. It just so happens the
14 benefit from that was that some of those personnel
15 that came in, they were ex-linemen types. We were
16 able to utilize those as storm restoration
17 supervisors -- the industry would call them also
18 birddogs -- to be able to go out and manage the
19 additional resources we got in on the system.

20 And then also truck drivers. We ran out of
21 truck drivers, qualified truck drivers. We are be
22 going to incorporate that into the plan.

23 The other thing was the storm itself. So we
24 had managed -- in my career, I have been involved
25 with five major hurricanes, and this one was

1 different. I believe FPL had mentioned, you know,
2 the size of the storm. Literally Ian and Charley
3 they, made landfall within 100 yards of each other.
4 And the difference, because of the size of the
5 storm, the dynamics of the storm was significantly
6 different.

7 The wind speed was about the same. We saw the
8 wind damage in Charley. Although, in Ian, it was
9 wider spread as a result of the size of it. But
10 the thing that is real and, you know, we all need
11 fob aware of it is the storm surge. It was
12 significant.

13 So if you look at places like Sanibel, Ft.
14 Myers Beach, they got anywhere from probably 14 to
15 16 feet of water in certain areas. Pine Island got
16 probably five -- three to five feet of water across
17 from the center south. So it had a pretty
18 significant impact.

19 And with that, last but not least, you know,
20 us being ground zero in the event is a pretty --
21 it's a pretty humbling experience. And we have a
22 lot of thanks that we would like to pass out. You
23 know, first and foremost, was Governor DeSantis
24 with his support throughout the event. Him and his
25 staff, they opened up access to things that we had

1 never had before that were very helpful to our
2 members, and the local area.

3 Also, Director Guthrie, he was directly
4 involved. Had a lot of conversations and
5 communications with him. Through him and the
6 Department of Transportation, they were able to
7 restore road access to Pine Island and Sanibel,
8 which greatly improved our ability to be able to
9 move resources over to those islands and expedite
10 restoration activities.

11 The Public Service Commission, specifically
12 Robert Graves. Karen had mentioned, you know,
13 25 percent of our employees lost their home. And
14 Robert, he knew that, and truly a compassionate
15 thing. He reached out to me and Karen on multiple
16 occasions trying to understand, you know, how we
17 were dealing with it, how our employees were
18 holding up. So very -- very humbling, but very
19 appreciative in -- in the moment.

20 The Florida Department of Emergency
21 Management, one of the things that in the past
22 we've had to deal with is the FEMA reimbursement
23 and the impacts of these events, especially on
24 cooperatives, nonprofits, municipalities, things of
25 that nature. It was an enormous financial impact.

1 And I will tell you that they have done an
2 exceptional job of streamlining the process, and
3 really helping out and -- and working with us on
4 reimbursements, which has helped our organization
5 immensely.

6 The Florida Electric Co-Op Association, they
7 were instrumental from the -- from the beginning of
8 helping us out, you know, providing resources,
9 assistance. They continue to be there for us. A
10 great organization.

11 All the co-ops that came in to help us from
12 eight different states, tremendous effort. Again,
13 you know, a drop of a hat, they were here and they
14 helped out.

15 And I can't say enough about Duke Energy and
16 FPL with the direct support that they gave us with
17 personnel, materials, expertise, whenever it was
18 needed. They were there day and night until we got
19 through the event.

20 So really, I will tell you, this was a team
21 effort. It really says a lot about the state of
22 Florida and all the utilities that are represented
23 within.

24 And that concludes my presentation unless
25 there is any questions.

1 CHAIRMAN FAY: Great. Thank you.

2 Any questions for our speaker?

3 Commissioner La Rosa, you are recognized.

4 COMMISSIONER LA ROSA: Thank you, Chairman.

5 And thank you for the presentation, and
6 certainly, obviously, you know, the eyes of, not
7 just Florida, but the nation were -- were on
8 Southwest Florida.

9 How -- how was the morale post-storm and how
10 is the morale today of the community?

11 MR. RUTH: Morale is good, you know. I will
12 tell you that of the employees that were most
13 impacted -- all the employees were impacted, some
14 were more severely than others. They were there
15 day and night. And it's a -- it's difficulty a
16 pride thing, and it -- it showed throughout the
17 event, and it still continues to show.

18 You know, we are as busy now as we've ever
19 been, and, you know, everybody is up for the
20 challenge and moving forward and working through
21 the recovery effort that we have, not only with our
22 system that is ongoing, but also with the community
23 itself.

24 COMMISSIONER LA ROSA: Well, thank you, and
25 certainly pass on our thanks and dedication to all

1 the hard workers that are on the ground. Thank
2 you, guys, for the presentation.

3 MR. RUBIN: Yes, sir. Thank you.

4 CHAIRMAN FAY: Great. Thank you.

5 And thank you both for -- for being here. I
6 think at times in this role, we -- we --
7 particularly I opened the statute books and look at
8 jurisdiction of IOUs, and municipalities, and
9 co-ops, and our role in all that.

10 But I think your example with Robert Graves,
11 who is a part of our team, is a really good one,
12 because at the end of the day, we are all part of
13 Florida, and I think seeing that other IOUs were
14 engaged with you, the Governor and his team were
15 engaged, and I could here in your voice, Mr. Ryan,
16 how impacted your community was, and still is
17 impacted to this day.

18 And so I appreciate you taking the time to be
19 here and tell your story, because I think we are
20 committed to doing what we can within our authority
21 to support restoration and preparation for these
22 entities, but -- but you are really ones on the
23 ground who have to that -- that work and
24 communicate with your constituencies, and so I
25 really appreciate the -- the work that you are

1 doing, and truly thank you for supporting your --
2 your constituents, so thank you.

3 MS. RYAN: Thank you.

4 CHAIRMAN FAY: Commissioners, with that,
5 seeing any other comments or questions for Lee
6 County? Nope.

7 All right. Well, next we will move on to --
8 thank you again.

9 MR. RUTH: Thank you, Mr. Chairman.

10 MS. RYAN: Thank you.

11 CHAIRMAN FAY: Next we will move on to our
12 last presenter this morning, which will be Mr. Bitz
13 from Lumen Network.

14 And it's Bitz, correct?

15 MR. BITZ: Bitz, correct.

16 CHAIRMAN FAY: Okay. Great.

17 MR. BITZ: Good morning, Commissioners and
18 staff. Thanks for including Lumen in this.

19 Now, I think one of the things I want to
20 recognize some of the utility partners have said
21 that Florida is leading the country in disaster
22 preparedness and recovery. I was recently on the
23 west coast, and myself and some of my partners in
24 the telecom providers was recognizing Florida for
25 their preparedness. You know, from the EOC

1 preparations to meetings like this, it really does
2 make a difference.

3 And then I think, you know, it goes without
4 saying, but partnership is -- is number one. When
5 you look across from my electric partners and
6 telecom, there really is a partnership between us.

7 My name is Brent Bitz. I lead the business
8 continuity management globally for Lumen, and the
9 Network Control Center, which is an overlay of all
10 of our operational teams.

11 So Lumen technologies, it might be a new name
12 to you, but Lumen, we are dedicated to furthering
13 human progress through technology by connecting
14 people, data, applications, quickly, securely and
15 effortlessly.

16 Lumen Technologies is an overlay company of
17 Lumen, a fairly new name, Quantum Fiber and our
18 traditional brand, CenturyLink, which still does
19 exist.

20 Business continuity. If you look at business
21 continuity for Lumen, it's really on a plan, do,
22 check and review. We aim to safeguard employees,
23 number one. And then how do we plan and recover
24 from a major incident? Try to prepare and recover
25 before it impacts us, but if it does impact us, how

1 do we recover quickly?

2 The first part of the plan -- I am not going
3 to read through all of these, but the first couple
4 is the corporate program. It is a corporate
5 program. It's an overlay, making sure we have the
6 resources, the training and the business
7 preparedness wherever it is in the -- in the world
8 to recover.

9 For pre-season checks, we had our pre-season
10 check. It's really -- we do this all year now, but
11 pre-season, our kickoff was May 11th. We brought
12 all the teams together, walked through the
13 preparedness and make sure that we are prepared for
14 the hurricane season.

15 We participate in ESF2s cross the country in
16 addition to the Florida region. Understand the
17 risk areas. One of the things that we've
18 identified and implemented is geospatial network
19 assets map. Really what that is, is overlaying all
20 of our people, our assets, our poles, everything on
21 an Esri overlay map. So as we prepare, we can go
22 better prepared for our people right outside that
23 area, and equipment right outside that area as
24 well, and know what we need as the storm
25 progresses.

1 Our field and center teams are diversified.
2 You know, obviously, we have feet on the ground,
3 and we will bring people in from all over the
4 country to support that. We will utilize
5 contractors from other telecom providers too. It's
6 really telecom providers come together and work
7 together on the plant where we can.

8 And then our data centers are diversified in
9 Florida and across the U.S., because all of our
10 data centers, we need them up and available,
11 especially in disaster situations.

12 Our incident management team consists of an
13 incident commander, business unit leaders
14 throughout the business, health and safety,
15 government affairs and corporate communications.
16 It's really an all-hands-on-deck.

17 And then when we talk about do, you know, the
18 exercises, and live events, and event management
19 functions, that's something that we do all day,
20 every day. And we communicate with customers, our
21 enterprise customers, we communicate with them at
22 least every hour that we have an update. And it
23 really enables us that practice in do when we do
24 have a disaster, it's muscle memory to react and --
25 and recover.

1 When you look at prioritization, it's power in
2 fiber, number one. After power and fiber, we look
3 at TSP, government, emergency services, other
4 utility providers. And I will just call out cell
5 phone providers are at the top of that list as
6 well. We know that, as landline, peoples, you
7 know, houses are affected, they utilize and rely on
8 cell phone communication. So we've got a very good
9 partnership with all of our cellular providers to
10 make sure that we've got service to their cell
11 phone; or if they don't utilize CenturyLink and
12 Lumen, how do we partner with them and get service
13 to them so they can serve customers?

14 Some information -- before I go to this slide,
15 just on poles. We've got 39,000 poles in Florida.
16 We inspect just about 5,000 poles annually. Many,
17 like the other providers, are on an eight-year
18 cycle.

19 Last year, we had 244 poles that were failed.
20 We repaired 164 poles, and replaced 80 poles. And
21 annually, we are on a cycle of 235 miles of
22 vegetation trim each year.

23 And this is disaster preparedness as we get to
24 the storm, as our storm watchers are looking at
25 things off the coast. Six days prior to the event,

1 we will bring together a small team of
2 stakeholders, critical infrastructure and plant
3 engineers. And then as we get closer, usually it's
4 when the storm gets named, two to three days
5 pre-event, we will bring together that incident
6 management team that I discussed before to pull
7 together.

8 And then as we go through, we will pull in
9 additional resources throughout the company to make
10 sure the company is there to support anything that
11 we need from a disaster recovery standpoint.

12 And then maintain and review. Some of the
13 things that we are doing, but always look out one,
14 three and five years, but we partnered with CISA
15 and AT&T on the affects of climate change. Based
16 on that, it's on a seven-kilometer by
17 seven-kilometer basis to not only look out
18 short-term, but to look out long-term, 15, 20 and
19 30 years, and start investing in infrastructure
20 that we need to -- to accommodate those climate
21 changes.

22 For Hurricane Ian, I mentioned we focused on
23 safety and people being priority. Clear
24 prioritization drove a response. We utilize
25 disaster recoveries in addition. We had a local

1 command and logistic center. This was a lessons
2 learned from a storm that actually impacted
3 Pennsylvania a few years ago, but set up a
4 logistics center and brought in logistics engineers
5 from our corporate warehouses throughout the
6 country. It made everything run much, much
7 smoother.

8 Our core network recovered quickly. Our core
9 network fiber-based, usually based on ring
10 architecture, so diversity architecture and
11 recovered quickly. Residential neighborhoods with
12 the devastation, there were extended outages.

13 We communicated with our customers by hourly
14 email statuses for enterprise customers. We set up
15 WiFi hotspots. And on our call center, we set up
16 messages on our IVR, and pushed status messages via
17 the appli -- mobile app to our customers.

18 For lessons learned, partnership was critical.
19 We continue to leverage and strengthen those
20 partnerships, leverage private sector resources,
21 barge getting to the islands, in addition to public
22 sector government resources.

23 Collaboration with power -- power companies
24 and meter information being available. This might
25 seem like something very, very simple, but meter

1 information -- so we are talking apples and apples
2 to our electric partners, and making it easily
3 accessible by all employees, that was critical, and
4 that's now available.

5 Access letters remain important. FEMA access
6 letters, and I know Florida is working on state
7 access letters. But as we bring people in that
8 don't have necessarily the CenturyLink branded
9 vehicles and badges, that's where access letters
10 remain important. So kudos to Florida for doing
11 that.

12 And then we are digitizing and mapping
13 impacts. Where we deploy resources often depends
14 on where we have fiber cuts, where we have utility
15 poles down, and where we don't have power. So the
16 automatic updates of where we need to deploy
17 resources, and as things change rapidly, that's
18 been critical.

19 That's all I have. Any questions?

20 CHAIRMAN FAY: Great. Thank you.

21 Commissioners, any questions?

22 Commissioner La Rosa, you are recognized.

23 COMMISSIONER LA ROSA: Thank you, Chairman.

24 Just out of curiosity, do you see -- is there
25 a different reaction to maybe some of the more

1 rural -- customers in more rural territory,
2 consideration to the more urban areas, maybe where
3 there is not fiber specifically?

4 MR. BITZ: Yeah. There is -- where we don't
5 have fiber in those rural community, they are often
6 served by copper. So we do look at the speed to
7 restore that copper, and what would it take to
8 overlay that and pull fiber in and upgrade our
9 plant while we recover.

10 COMMISSIONER LA ROSA: Thank you.

11 MR. BITZ: Yep.

12 CHAIRMAN FAY: Thank you, Commissioner La
13 Rosa.

14 All right, Commissioners, seeing no other
15 questions for Lumen, thank you for your
16 presentation.

17 I did before -- just before we conclude, want
18 to make sure we don't have any comments for our
19 presenters.

20 Yes, we will go, Commissioner Clark and then
21 Commissioner Passidomo.

22 COMMISSIONER CLARK: Thank you, Mr. Chairman,
23 just a couple of observations.

24 I thought I would just wait until everyone
25 finished their presentation to make a few

1 observations, but I especially wanted to
2 acknowledge the -- the relationships that I think
3 have been built here, and I want to acknowledge Lee
4 County for the collaborative efforts that they've
5 made with the investor-owned utilities in -- in
6 working some mutual aid.

7 I know Mr. Bjorklund has been an instrumental
8 part of that as well, and I want to thank him for a
9 leadership role he has played in helping to bridge
10 that gap. This is an issue that I addressed very
11 early on in my career here at the Commission, that
12 I thought it was essential that we begin to work on
13 and fix this mutual aid between munis, co-ops and
14 IOUs.

15 And I know there is still some liability
16 hurdles that we are -- we are focusing on. My OUC
17 friend there is nodding his head yes, so I -- I
18 certainly see there is still some potential there
19 for us to do some positive things, but I think this
20 is a really, really good first step. This is
21 something that is a little bit unusual in the past,
22 and I am very, very happy to see that.

23 But I wanted to just pose a question to each
24 person that's made a presentation here today. A
25 friend of mine told me once that his greatest fear

1 was the question that he was asked in the boardroom
2 one day, and that was what keeps him up at night.
3 And you guys have done a tremendous job sharing
4 with us what you have done to prepare for the
5 upcoming storm season. I have personally witnessed
6 the preparation efforts that go into this, and my
7 hat is off for all of the planning involved. But I
8 just want to see if we can help in
9 identifying where we have any potential
10 deficiencies.

11 And my question to you guys is: Knowing
12 what's coming ahead in this year, outside of the
13 size of the storm, what keeps you guys up at night?
14 Is there any potential looming issue that we, as
15 the Commission, can help to address? Are there any
16 hurdles that you have seen in the past that you
17 still don't think we have resolved? And even just
18 get down to the -- the -- the most micro point, if
19 you would, just what are you most concerned about
20 if we had a storm that could go wrong?

21 Someone mentioned a cyber attack during a
22 storm. I will be honest, that never crossed my
23 mind. That's -- that's the first, you know, the
24 first time I have heard that. And I think that's
25 an amazing -- an amazing amount of effort going

1 into making that kind of planning.

2 But are there other logistics that you have
3 the highest concern about? You may not think it's
4 a problem, but it's your biggest concern. And I am
5 going to open it up to anybody that's got the guts
6 to answer that question this morning. Your bosses
7 won't get mad at you. I promise. You can answer
8 it.

9 CHAIRMAN FAY: Go ahead, Lee County.

10 MR. RUTH: Yes, Commissioner, I will start it
11 off.

12 The one thing that, thank goodness we didn't
13 have too deal with, was during COVID. So if we
14 very a pandemic and we have a major restoration,
15 the separation that has to be required and all the
16 logistics that go into it would exponentially
17 complicate those restoration efforts.

18 So ideally, it's behind us, and it's not COVID
19 but it is something we have to plan for. It could
20 be a flu. It could be something, who knows, but
21 that is -- you know, looking back, you know, we
22 thought we were prepared going into it if we had a
23 pandemic, but looking at the effort that we had to
24 go through with -- with Ian, it would be
25 extraordinary to do those restoration efforts.

1 MS. RYAN: I would just tag on to that,
2 Commissioner Clark, is -- and we all mentioned it,
3 was supply chain. I think even during blue skies,
4 that we are concerned with that now. So add a
5 storm, or two storms to that, it is -- it keeps me
6 awake at night.

7 MR. ADAMS: Yeah, I will -- that's exactly
8 what I was going to say, the supply chain. Even
9 though we have increased our stock levels, I think,
10 Mr. Chairman, you mentioned what if we have
11 multiple back to back to back storms, and with the
12 supply chain issues that currently exist, we are
13 all aware, trying to source those materials and get
14 those in for our customers keeps me up at night.

15 MR. PANKRATZ: I will add to what you said for
16 the cyber. That's something that we actually
17 drilled on last year during our annual storm dry
18 run, we added in the cyber element. So in my role,
19 I am responsible for preparedness for our company
20 for all hazards. We've actually got a cyber drill
21 coming up next month that we are doing, and to
22 think about how vulnerable we are during a
23 hurricane restoration, to have something like that
24 that would impact our systems is definitely
25 something that -- that keeps us up at night.

1 MR. MORA: I would say for Tampa, the direct
2 hit coming up Tampa -- Tampa Bay for a Category 4
3 or 5 and the associated storm surge of witnessing
4 what happened down in southwest Florida, and would
5 hope that our customers would actually evacuate for
6 their safety. And then the following that, of just
7 kind of the safety of the restoration for our
8 workers and for the community.

9 MR. HASLETT: So in my role, I focus a lot on
10 staging and logistics. Something that keeps me up
11 at night is our staging site review process is very
12 iterative. We see it becoming more cumbersome to
13 acquire large sites in our heavily populated and
14 dense areas, Pinellas, Pasco. We are working to
15 try to convert some of our Duke Energy owned
16 property to staging sites, but that is something
17 that, you know, we often think about, you know, we
18 need to make sure that we have adequate staging to
19 bring in a large number of off system resources.

20 MR. PUENTES: Commissioner Clark, I think the
21 thing that worries us the most, being that we are a
22 very small utility, is something that a direct hit
23 Category 5, Category 4, or something similar, like
24 what happened in our northwest territory with
25 Michael on the island, that if a Category 5, or

1 something like that hits our island, it would be
2 destroyed, and there is almost anything that you
3 can do to stop that. That, I think, is the biggest
4 worry for us.

5 CHAIRMAN FAY: Any follow-up, Commissioner
6 Clark? No, great.

7 Commissioner Passidomo, you are recognized.

8 COMMISSIONER PASSIDOMO: I promise, I don't
9 have any existential questions for you. Mine is
10 more just sincere gratitude to all of you in the
11 work that you do.

12 I said this last year after Hurricane Ian, I
13 am from -- I grew up, born and raised in Naples, so
14 to see it hit your community like that, it really
15 -- it was pretty overwhelming because, you know,
16 you just -- like I said last year, you know when
17 you grow up on the coast it's possible, but when it
18 does, you know, destroy your childhood home, it's
19 -- its -- it's a pretty emotional experience.

20 So when I went down, I had the opportunity to
21 go and visit an FPL staging site. It was just
22 incredible operations to see, it really -- it was
23 like almost militaristic in its -- in the
24 procedures that you executed, everybody really knew
25 their -- their positions, and it was just amazing

1 to go see, and that's why I think we see such --
2 such quick restoration efforts, is because of these
3 lessons learned, and you have take taken in and you
4 deploy it every single year.

5 And again, another south out to Lee County. I
6 mean, I -- we -- I flew over -- and you can still
7 see, you know, as you know, those blue tarps are
8 still there, and they are less every single --
9 every single time I do it, but they are still
10 there, and so I am sure that is a challenge you
11 will have this season, is those -- those homes that
12 are still currently being fixed up that, you know,
13 they are -- they are very vulnerable right now, but
14 you all did an amazing job. And the community
15 outreach that happened after the storm was -- it
16 just -- it really restored my faith just to see how
17 much -- how everyone came together, and is still
18 coming together. And so I just really appreciate
19 all of the work that you all are doing. So thank
20 you.

21 CHAIRMAN FAY: Great. Thank you, Commissioner
22 Passidomo.

23 Commissioner La Rosa, you are recognized.

24 COMMISSIONER LA ROSA: Thank you, Chairman.

25 And I will be very brief.

1 You know, I -- I -- I would say thank you for
2 the willingness to continue to get better. I think
3 the Chairman started and opened by saying at NARUC,
4 we look at Florida as -- as -- as being really good
5 in hurricane response, but every year when we have
6 these presentations, there is always a lesson
7 learned, whether it be have from a storm or whether
8 it be from something else that -- that impacted us.

9 So I want to say thank you to all of you guys,
10 and certainly take that message back home, that we
11 appreciate you guys continuing to dig through
12 things, and look at the details, and look at the
13 information, and finding ways to ultimately get
14 better, because that's just going to help, of
15 course, every one of our customers as restoration
16 becomes reality after a storm, so thank you all.

17 CHAIRMAN FAY: Thank you.

18 All right. Commissioners, seeing no other
19 comments, I would echo the thank you for your time
20 for all of you for being here today, and this will
21 conclude our commission workshop on the 2023
22 Hurricane Season Preparedness. Thank you again.

23 (Proceedings concluded.)

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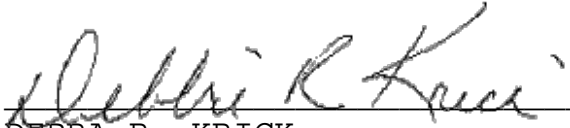
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I FURTHER CERTIFY that I am not a relative,
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DATED this 7th day of June, 2023.


DEBRA R. KRICK
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