

HOUSE OF REPRESENTATIVES  
COMMONWEALTH OF PENNSYLVANIA

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Utility Storm Response and Vegetation Management

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House Consumer Affairs Committee

Main Capitol Building  
Room 60 East Wing  
Harrisburg, Pennsylvania

Thursday, March 27, 2014 - 10:03 a.m.

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COMMITTEE MEMBERS PRESENT:

Honorable Robert Godshall, Majority Chairman  
Honorable Sheryl M. Delozier  
Honorable Brian Ellis  
Honorable Warren Kampf  
Honorable Rob Kauffman  
Honorable Kurt A. Masser  
Honorable John Payne  
Honorable Mike Reese  
Honorable Todd Stephens  
Honorable Peter J. Daley, Minority Chairman  
Honorable Matthew Bradford  
Honorable Tina Davis

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STAFF MEMBERS PRESENT:

Amanda Rumsey, Esquire, Counsel  
Majority Executive Director

Jane Hugendubler  
Majority Legislative Administrative Assistant

Michael Nerozzi  
Majority Research Analyst

Elizabeth Rosentel  
Minority Executive Director

Jamie Macon  
Minority Legislative Assistant

Jerry Livingston  
Minority Research Analyst

Brett Biggica  
Minority Research Analyst

Ned Smith  
Minority Legislative Specialist

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INDEX OF TESTIFIERS

TESTIFIERS	PAGE
Opening remarks by Maj. Chairman Godshall	4
Opening remarks by Min. Chairman Daley..	4
Michael Innocenzo, Chief Operating Officer PECO Energy Company	6
Dennis Urban, Vice President..... Finance & Regulatory Affairs PPL Electric Utilities	52
David Karafa, President..... Pennsylvania Operations FirstEnergy	69

SUBMITTED WRITTEN TESTIMONY

(See submitted written testimony and handouts  
online.)

INDEX OF REQUESTED DOCUMENTS OR INFORMATION

Page	Line	Page	Line	Page	Line
30	3-8	31	12-15	45	22-

1 MAJORITY CHAIRMAN GODSHALL: Good  
2 morning. The hour of 10 o'clock having arrived,  
3 call the meeting to order.

4 Today's hearing will examine electric  
5 utility storm preparation and response to power  
6 outages caused by this winter's severe weather;  
7 specifically, the February 4th, 2014 ice storm that  
8 resulted in power outages impacting approximately  
9 somewhere between a million and two million  
10 Pennsylvanians. We will also hear about the impact  
11 that vegetation management policies may have on  
12 mitigating weather-related power outages.

13 The hearing is being recorded. There's  
14 going to be three testifiers. We have adequate  
15 time for members for questions after each  
16 testifier.

17 I'd like to offer Co-Chairman Daley an  
18 opportunity to make comments. Chairman Daley.

19 MINORITY CHAIRMAN DALEY: Thank you,  
20 Chairman Godshall.

21 I'm looking forward to the opportunity,  
22 as well as members of the committee, to hear the  
23 testimony.

24 I guess eastern Pennsylvania got kicked  
25 this year. Western Pennsylvania, probably, I want

1 to say seven years ago that we had an outage that  
2 lasted in some areas for 15 days; similar to this  
3 but a little bit more snow, same kind of ice, same  
4 kind of effect, and looking forward to hearing, Mr.  
5 Chairman, exactly the circumstances that we need to  
6 look at today and consider. Thank you, Mr.  
7 Chairman.

8 MAJORITY CHAIRMAN GODSHALL: Thank you.

9 With that, we will start with PECO, with  
10 their Chief Operating Officer, Michael Innocenzo.  
11 Michael, if you can have a seat at the front table,  
12 as soon as the gentleman is finished there.

13 I would just like to say that, I know  
14 this will probably come out, but I live on the edge  
15 of PPL/PECO. Part of my district is PPL; part is  
16 PECO. I do know that PECO suffered through over  
17 700,000 outages themselves in the heart of the ice  
18 storm that hit down there. That's probably well  
19 over a million people itself that were hurt in this  
20 ice storm.

21 I do know that PECO had, I've heard from  
22 -- had people from all the way from, I think New  
23 Mexico, Alabama and Canada working on putting lines  
24 back up, with 6,800 people on the ground at any  
25 time, which is really a small army. The logistics

1 on something like that has got to be unbelievable.

2 Mike, the microphone is yours. Go  
3 ahead, and you have all the time you need.

4 MR. INNOCENZO: Thank you, Chairman  
5 Godshall, Chairman Daley, and all the members of  
6 the committee. I appreciate the opportunity to  
7 speak about the major ice storm that struck our  
8 region on February 5th.

9 My name is Mike Innocenzo. I'm the  
10 senior vice president and chief operating officer  
11 for PECO, southeastern Pennsylvania's electric and  
12 gas utility. PECO provides electric service to  
13 Philadelphia, Bucks, Chester, Delaware, Montgomery,  
14 and portions of York County, and natural gas  
15 service in Bucks, Chester, Delaware and Montgomery  
16 counties.

17 Today I'll describe our response to the  
18 destructive February ice storm. It was  
19 comprehensive, it was aggressive, and it was  
20 successful. As I'll talk about the magnitude of  
21 this storm, it was very similar, if not larger, in  
22 magnitude than Hurricane Sandy; and yet, our  
23 restoration was done in about two days less time  
24 than Hurricane Sandy.

25 That being said, with any storm or order

1 of this magnitude, there's some things that went  
2 very successful. There also were some  
3 opportunities where we could use some lessons  
4 learned and improve, and we'll talk a little bit  
5 about some of those that we've already identified  
6 that we'll be working going forward, sharing best  
7 practices with both our peer utilities, with some  
8 of our municipal and local officials and emergency  
9 response community, as well as with the PUC who's  
10 continued to be a very good partner for us  
11 throughout the storm restoration efforts.

12 We learned a lot of lessons from  
13 Hurricane Sandy that helped us improve our  
14 response. We'll talk about some of those that we  
15 put in place for this last winter storm, as well as  
16 some lessons learned here that we'll put in place  
17 moving forward.

18 I'll talk about it in several areas.  
19 First I'll talk about the continuous preparations.  
20 I think the key to any storm response is,  
21 obviously, being prepared upfront, and that's part  
22 of what you do on a day-to-day basis.

23 We keep our systems in good order.  
24 We've made significant investments to improve our  
25 system reliability over the years and focus on

1 training of our people. We've made enormous  
2 investments in the robustness and reliability of  
3 our system in the last five years.  
4 Since 2009, we've invested \$1.8 billion in  
5 improvements to our transmission and distribution  
6 system, and that investment is fairly  
7 comprehensive. It's included improving  
8 substations; installing state-of-the-art system  
9 control processes and I.T. systems, GIS map  
10 systems; adding reclosers, which are distribution  
11 automation which helps the --

12           If you hear people talk about the  
13 self-healing grid, it's a little bit about the  
14 ability to automatically isolate outages and to  
15 restore automatically. We've put significant  
16 investment into those devices; upgrading circuit  
17 breakers, transformers, switchgear control houses.

18           Again, you can see the point. It's  
19 been pretty comprehensive at this point. Our  
20 capital investment is the highest it's ever been in  
21 our company's history.

22           The results of these investments, 2013  
23 marked our best year ever for service reliability  
24 in company history. We measure reliability in a  
25 term that's called SAIFI, S-A-I-F-E (sic), which is



1 basically the frequency of interruptions. Our rate  
2 in 2013 was point 68, which was our best ever, and  
3 it exceeded our previous best ever, which was set  
4 in 2012. So, we've had two years in a row where  
5 we've had best-ever reliability.

6 And the length of the outages we measure  
7 in a term called CAIDI, which is the duration of  
8 outages measured in minutes, was about 94 minutes,  
9 which places us in top quartile in the industry.

10 One of the primary focuses we have, in  
11 addition to all of the capital improvement, is in  
12 vegetation management. We know that about one-  
13 third of all of the outages are caused by  
14 interferences of trees and vegetation. We've  
15 consistently invested approximately \$35 million a  
16 year in our veg management program, and it's a very  
17 comprehensive program. It includes tree trimming,  
18 tree removals, herbicides for fast-growing and  
19 invasive tree-trimming (sic) species.

20 It also includes a mid-cycle tree  
21 trimming, so we'll do a -- We're actually into the  
22 fourth cycle -- four- or five-year cycle. But,  
23 mid-cycle, we'll identify areas that need to go  
24 back and get additional trimming.

25 We'll work on worst-performing pockets

1 and circuits, and we'll also follow up on customer  
2 feedback and follow up on areas where they might  
3 have specific pockets that have multiple outages.

4 As anything, we have to look at the  
5 overall numbers, and the overall numbers continue  
6 to get better and better for us. That being said,  
7 you can have smaller areas or smaller pockets that  
8 can get masked by the overall numbers. And those  
9 are just as important because those have a major  
10 customer impact, and we pay attention to them as  
11 well.

12 While reliability's our concern, we also  
13 work with the local municipalities and customers to  
14 perform the tree-trimming work in a manner that is  
15 respectful of our communities and our customers'  
16 property. It is a delicate balance. We need to  
17 make sure that we safely trim the trees and make  
18 sure the system is reliable as possible.

19 That being said, we also have to respect  
20 the customers and the municipalities. The trees  
21 certainly add a lot to the beauty of our region,  
22 and we try to strike the delicate balance of that.  
23 We found very good partnership working with the  
24 municipalities and finding that balance and  
25 continue to do so going forward.

1           In addition to driving the overall  
2 system reliability, we do look at those pockets.  
3 We're keenly aware that all reliability is local,  
4 and some individual customers might have an  
5 experience that's different from the overall. So,  
6 in those areas we work closely with elected  
7 officials, municipalities and with the customers  
8 directly to identify those areas that need  
9 additional improvement.

10           One of the follow-ups that we're doing  
11 from these storms is, we're holding workshops in  
12 several areas throughout the territory. We're  
13 describing the overall process to improve  
14 reliability, but we're also going customer by  
15 customer and identifying areas where we might have  
16 some additional follow-ups, and we're committed to  
17 follow up on every one of those customers who's  
18 attended those workshops.

19           Let me get into the summary and event  
20 itself. Again, I talked about the magnitude of the  
21 storm, and I'll talk a little bit more of that in a  
22 second here. But also, before I do that, I want to  
23 just thank all of you, all of our local municipal  
24 officials, the emergency response officials. This  
25 was a monumental effort for us. Our peer utilities

1 who are here with us. As I'll describe, we  
2 received help from a lot of folks to restore power.  
3 It's a storm that was as large or larger than  
4 Sandy; restored about two days sooner; so, very  
5 successful overall.

6 That being said, I know for our  
7 customers, especially those customers that were off  
8 on the longer duration of the event, this was a  
9 very trying event. I want to also thank them for  
10 their patience both during the event and their  
11 partnership with us working forward.

12 We appreciate and we realize that,  
13 although the event itself went very well, for any  
14 customer who's been off for several days, it is a  
15 very difficult situation, and I appreciate their  
16 patience and partnership as we worked through that  
17 event and as we work going forward.

18 Winter Storm Nika knocked out power to,  
19 as the Chairman said, between 1 to 2 million  
20 Pennsylvanians. In our territory alone, 715,000 of  
21 our customers, which is about 40 percent of our  
22 customers and almost -- If you look at the suburban  
23 counties, which were more impacted than the city of  
24 Philadelphia, almost 70 percent of the customers in  
25 our suburban counties were without power at some

1 point in time during the event.

2 It is the, in terms of customer  
3 accounts, second-most damaging to Sandy, but in  
4 other ways more impactful to the customers, not  
5 only because of the magnitude, but also because it  
6 happened during frigid temperatures. So those that  
7 were without power were without power during times  
8 when temperatures were extremely cold.

9 Our emergency response organization was  
10 active prior to the event. As you recall, there  
11 was a snowstorm that came through on the Monday of  
12 that, so we were already activated and prepared,  
13 both in storm restoration from that event, as well  
14 as preparing for this event and bringing in  
15 additional resources. We actually got our last  
16 customers on the evening before the snowstorm hit,  
17 but we maintained the readiness, focus, and kept  
18 the emergency operation centers open.

19 Our goal was simple. That was to get  
20 customers back online as soon as possible without  
21 losing our focus on safety. We focused our  
22 performance on three key areas: Customer and  
23 community safety, operational readiness and  
24 performance, and then customer care and the  
25 information flow to our customers. And I'll

1 provide a post-event (sic) situational analysis.

2 In terms of customer and community  
3 safety, that's paramount for us. We deal with a  
4 very hazardous situation, with a hazardous product.  
5 First and foremost is the safety of our customers,  
6 our residents, and making sure that they are safe.  
7 Our workers; making sure that when they go out to  
8 restore power that they return home safely to their  
9 families. And all of the assisting utilities and  
10 contractors who came from as far away as Canada and  
11 New Mexico to come help us, our obligation is to  
12 make sure that they're able to work, get customers  
13 back on safely and then return home safely to their  
14 families.

15 I am very proud to say that we had no  
16 serious injuries. We had four minor incidents; the  
17 most severe being stitches in the ear of one of the  
18 employees who was hit by a falling tree limb. But  
19 no serious injuries beyond that, which I am very  
20 pleased to say.

21 In terms of the restoration, we focus on  
22 public safety first. So our first focus is  
23 restoring power to public safety facilities such as  
24 hospitals, 9-1-1 centers, water treatment plants,  
25 prisons, regional government, transportation and

1 communications hubs. And then, throughout the  
2 storm, we worked on the next level of priorities  
3 and continued to keep the balance between getting  
4 the most customers back on, opening up the road  
5 closures and working the priority customer lists.

6 It's important to note that, even when  
7 we have some customers that are on the critical  
8 list, by the nature of the damage, some of those  
9 customers might take more time to get back on than  
10 others just because, it may be the highest  
11 priority. But, in this case, we had locations  
12 where we had to almost rebuild the system to get  
13 power back on. So it may be the ones we were  
14 working on, but we had to build the backbone of the  
15 system before we could even restore power to some  
16 of our critical facilities.

17 We also responded to over 3,800 police  
18 and fire and wire-down jobs, and extensive media  
19 interview and outreach to our customers.

20 In terms of operational readiness and  
21 performance, the lessons learned that we've had  
22 from the previous events Irene and Sandy, we've  
23 been able to build those into operational  
24 procedures that have been every effective. I think  
25 one of the key things here is, if you look at

1 Hurricane Sandy, we had about five to six days'  
2 notice that that was coming our way and we were  
3 able to get all those resources coming.

4 In this particular case, if you  
5 remember, the storm that was coming 20 miles to the  
6 south, 20 miles to the north could make a  
7 difference in terms of the ice damage and the  
8 amount of damage. We were able to gear up in a  
9 fraction of the time than we did during Hurricane  
10 Sandy; and actually, had more resources on the  
11 ground by a third-fold more than we did during  
12 Hurricane Sandy. So, that's attributed to a couple  
13 of things.

14 One is certainly the procedures that we  
15 put in place, but also the partnership and the  
16 effectiveness of the mutual assistance process with  
17 our peer utilities and contractors. We had  
18 assistance from our sister utilities at BGE and  
19 ComEd.

20 Just sort of some of the numbers: Our  
21 staffing levels grew from about 2,700 on the 5th to  
22 about 6,800 on Sunday, February 9th. That is both  
23 in the field and the back office. As a reference,  
24 at our peak during Hurricane Sandy, which is at the  
25 end of Hurricane Sandy, we were about 4,700



1 personnel. So we were about a third higher than we  
2 had working Hurricane Sandy.

3 They came from all over: Canada,  
4 Massachusetts, Maine, Alabama. Again, I would  
5 thank all of our folks that helped us out during  
6 that.

7 We opened 21 operation subcenters. When  
8 you're mobilizing an army here, one of the things  
9 we try to do is decentralize control. So,  
10 throughout the region, we mobilized about 21  
11 subcenters that would do the response in the  
12 communities to those local outages. We had about  
13 60 percent of the customers back on in two days and  
14 almost 99 percent back on by Monday.

15 Throughout the event, again, as we  
16 mentioned earlier, we focused on critical  
17 customers. Those priorities were continued to work  
18 down the list. Through the weekend of the event,  
19 we were focused on getting the schools back online  
20 for Monday. We know the impact that this winter  
21 has had to the schools. We were able to get  
22 everybody back on by Monday the 10th.

23 Then we also worked with the county  
24 emergency operations centers. We staffed those and  
25 also had a process to continue communications with

1 those in terms of opening road closures. That was  
2 a big impact on this event; the amount of damage  
3 and the amount of roads that were closed. During  
4 Hurricane Sandy, there were approximately 280 to  
5 300 roads that we needed to work with the counties  
6 and open. That was about 900 during this event, so  
7 triple the amount that we had during Hurricane  
8 Sandy.

9           So, we worked from Hurricane Sandy to  
10 this storm, working some processes with the county  
11 9-1-1 centers. This probably wouldn't be the first  
12 one that I wanted to try it out on, but sometimes  
13 you've got to do what you've got to do.

14           I think, overall, it went very well. We  
15 got some feedback on some things we needed to  
16 tighten up, and we've had some after-action reports  
17 both with PEMA and with the county emergency  
18 operations centers. Some good lessons learned that  
19 I think we can -- I think a lot of it went very  
20 successful. There's some things we can do to even  
21 make it better the next time we go out.

22           Then we spent a lot of time around  
23 caring and informing of our customers. We received  
24 about 1.1 million customer calls. We conducted 500  
25 media interviews; a lot of activity on our website.

1 We activated our storm center. We used that as a  
2 way to inform customers. We took about 4.6 million  
3 web page views during this event, which is more  
4 than we've ever seen and an order of magnitude  
5 higher than Hurricane Sandy.

6 Then a new use for us was the use of  
7 social media. This is a lesson learned that we had  
8 both from our -- some of the best practices  
9 opportunity visits with our peer utilities. The  
10 utilities helped us get on board with the social  
11 media, and we found that to be very effective both  
12 in communicating to our customers, but also getting  
13 feedback about areas where maybe we weren't  
14 communicating as well and we needed to up our  
15 communications. So it helped us sort of, real-time  
16 during the storm, make adjustments. I think it's a  
17 good first start for us, and we'll continue to  
18 leverage that going forward.

19 In addition, we opened up six  
20 neighborhood customer care centers. As we got to  
21 the mid-range of the storm, towards the tail end of  
22 the storm, those customers had been off for  
23 multiple days. We realized we needed to have some  
24 folks out there talking face to face to give them a  
25 sense of where they were, what was happening with

1 their outage.

2           Lastly, I'll talk about some of those  
3 lessons learned that we had from both the PUC-led  
4 efforts to the best practices; visits that we've  
5 had with our peer utilities, as well as from our  
6 own internal lessons learned. The use of social  
7 media was one. Changing how we do estimated times  
8 of restoration, I'll talk about that a little bit.  
9 That was both a positive in some ways and, I think  
10 an opportunity for us to improve; frustration for  
11 some, particularly those on a longer duration.  
12 I'll talk about what we've learned there, and some  
13 things we'll look to do going forward.

14           The expansion of our outage map on the  
15 website, we had regularly-scheduled calls with  
16 townships and municipalities to keep them informed,  
17 and our elected officials to keep them informed.  
18 That was a new process that we had administered;  
19 the road closure process and the customer care  
20 centers.

21           Now I'll just go into a quick post-event  
22 situational analysis. First and foremost, safety.  
23 I think that was very positive. Again, we have a  
24 lot of folks that are coming from a long distance  
25 to come and help our residents, and we have an

1 obligation to keep our residents and customers safe  
2 and to keep those folks that are helping us safe.

3           The fact that we went through with four  
4 minor injuries, we took a lot of pain-staking  
5 efforts to make sure that -- If you think about  
6 this, 6,800 people working the storm event; 5,600  
7 of those are in the field, and they're all starting  
8 to get into the same areas. Making sure you keep  
9 command and control of those areas, and making sure  
10 that you're very deliberate about who has control  
11 over what areas; something that's very important to  
12 do, and that went very well.

13           Mutual assistance, again, was a very  
14 positive impact; the fact that we were able to get  
15 them on; get the lights on quicker than Hurricane  
16 Sandy, and to do that -- and to get so many  
17 resources. I want to thank again the mutual  
18 assistance process and our peer utilities; a third  
19 higher than Hurricane Sandy.

20           Customer education: Social media was a  
21 very valuable tool, and the customer care centers,  
22 I think, worked very well for us.

23           Estimated times of restoration: One of  
24 the things that's very important for customers is,  
25 they know that their lights are off, but they want

1 to know when they're gonna come back on. Our goal  
2 is to give them the best available information that  
3 we have.

4 Early in the event, we actually did not  
5 provide estimated times of restoration. That was a  
6 lesson learned on Hurricane Sandy is, don't tell  
7 customers before we have a good handle on when they  
8 can expect to be back on. So, for the first day,  
9 as we assess the storm --

10 And as you remember, the storm continued  
11 to cause damage throughout Wednesday afternoon into  
12 Wednesday evening. And as we're getting resources  
13 on the system, we suspended our restoration times.  
14 We implemented those on Thursday morning, and we  
15 put them into, basically, days where we were going  
16 to go back on: Customers we expected to get back  
17 on Thursday; customers we expected to get back on  
18 Friday; customers we expected to get back on  
19 Saturday, to try to give customers the best  
20 information available. We had hundreds of  
21 thousands of customers we were able to meet those  
22 restoration times.

23 One of the frustrating things for many  
24 of our customers were when those dates would  
25 change. For some of those customers that were in

1 what we call embedded outages, we would restore a  
2 large portion of the circuit. We'd get 80 to 90  
3 percent of the customers back on, but there would  
4 be additional trouble; additional either primary  
5 trouble, transformer trouble, or even the wires  
6 that would go to customers' homes.

7           We would know that the entire circuit  
8 was out; we know we had a lot of trouble on there.  
9 We know we're doing the restoration work that would  
10 restore most of those customers. Until we restored  
11 that first 80 percent, we did not have a line of  
12 sight to those other embedded outages. Those  
13 customers experienced a change in ETR.

14           We understand that that's extremely  
15 frustrating for customers, and that's one of the  
16 things we'll continue to work going forward working  
17 with our peer utilities. Difficult situation to  
18 solve. We got better at it during this storm than  
19 we were in Irene or Sandy, but still some  
20 opportunities to improve, especially when you get  
21 into multiple-day events, and that will be one of  
22 our key takeaways.

23           Communications and operations with the  
24 emergency -- the county 9-1-1 centers. Again, we  
25 staffed the 9-1-1 centers. We had people in there.

1 We got some feedback early on just that, the  
2 magnitude of an event, that communication needed to  
3 be ramped up. We were able to change that  
4 mid-event. Overall, we think that went very well  
5 in terms of what we were able to accomplish.

6 We had about 900 road closures; about  
7 three times more than Hurricane Sandy. We also  
8 prioritized those to different levels, and the  
9 highest levels, road closure 1's, priority 1's, we  
10 had about 89 percent of those restored within one  
11 working day. Overall, we think that went very  
12 well.

13 We also have some opportunities to  
14 improve, and we've worked very closely -- We've  
15 already conducted an event with the county 9-1-1  
16 centers along with PEMA, and we're doing individual  
17 one-offs with each of the county's 9-1-1 centers,  
18 and we'll work to enhance that process even  
19 further. We think we did well, but we think we can  
20 do even better.

21 Overall, again, I want to thank everyone  
22 for -- all of our customers, our elected officials,  
23 municipal officials and emergency response.

24 Something of this magnitude could not have been  
25 done without all of that partnership, including the



1 patience and cooperation of all of our customers.

2 By applying the lessons learned, we  
3 were able to complete it safety; two days less than  
4 Hurricane Sandy. But again, we know we have some  
5 lessons learned, and we're continuing to work  
6 those.

7 We're about a third of the way through a  
8 series of workshops that we're having in all of our  
9 counties to hear feedback directly from customers  
10 about what worked well and what we can improve  
11 upon, and we are committed to following up with all  
12 of those individually, as well as enhancing our  
13 processes going forward.

14 With that, I'd be pleased to answer any  
15 questions that the committee might have.

16 MAJORITY CHAIRMAN GODSHALL: Chairman  
17 Daley.

18 MINORITY CHAIRMAN DALEY: Mike, I'm very  
19 impressed what you've done here. I think it's  
20 rather significant and should be noted. You said  
21 44 percent were on within 24 hours, 62 percent  
22 within two days, 91 percent within three days. I  
23 think that's significant as seeing, historically,  
24 this type of problem in the past.

25 Question: The cell towers, as we know,

1 have you worked with the various companies on  
2 backup generation for those towers? Because I know  
3 the whole communication system shuts down when we  
4 have a problem like this. What type of backup  
5 generation is there in your area?

6 MR. INNOCENZO: Actually, we have a very  
7 good relationship with all of the communications  
8 providers. We communicate with them both kind of  
9 on a day-to-day basis as well as during the events.  
10 They're all very responsible. They all know that  
11 they've got to have backup generation, and they do.

12 Typically, what will happen during an  
13 event like -- including our own facilities. We  
14 have facilities that have the backup generation;  
15 communication facilities with our new AMI network.

16 Typically, what will happen is, most of  
17 those are in good shape on backup generation. As  
18 you get multiple days in the event -- As I talked  
19 about kind of working down the priority list,  
20 usually, kind of mid-event, we'll get some of those  
21 locations that have been on generation for multiple  
22 days that we'll look to try to work in where we  
23 can. And if there's any area where there's some  
24 critical communications that are being hampered by  
25 that, we'll work that as part of our priority list.

1           MINORITY CHAIRMAN DALEY: You do work  
2 with the various emergency management programs in  
3 the counties to do that, as well as PEMA.

4           MR. INNOCENZO: That's correct.

5           MINORITY CHAIRMAN DALEY: I think that's  
6 very significant.

7           The fact that you had 4,000 extra feet  
8 on the ground very quickly goes to show how it's a  
9 team event all over the country. I know on  
10 Interstate 70 and 79 in western Pennsylvania, we  
11 saw caravans of utility trucks heading your way; on  
12 the Turnpike heading your way.

13           Let me just ask you: Have you given an  
14 estimation as to the cost for the restoration that  
15 was impacted by PECO?

16           MR. INNOCENZO: We have. It's actually  
17 going to be our most expensive by far. We're still  
18 working on the ranges, but we're probably somewhere  
19 between 110 to 130-million- dollar range.

20           MINORITY CHAIRMAN DALEY: This winter  
21 has been cataclysmic for all of us in terms of the  
22 number of snowstorms; western, central, eastern  
23 Pennsylvania. I think you noted this; that once  
24 this was completed, you almost had this wrapped up,  
25 the second snowstorm hit, and then I think even a

1 third snowstorm hit the same area.

2 MR. INNOCENZO: Correct.

3 MINORITY CHAIRMAN DALEY: By that time,  
4 did that impact on the restoration or generation,  
5 or did you have a significant number of people  
6 that, again, lost more power?

7 MR. INNOCENZO: We did. The first storm  
8 impacted us about 60 to 70,000 customers. The  
9 second storm was the big one. That one hit us  
10 about 700,000 customers. The third one, the  
11 nor'easter that was coming through, if you recall,  
12 that was also the one that hit down south where  
13 there was some significant ice damage down in  
14 Georgia, Atlanta and the Carolinas, that impacted  
15 us less so.

16 We got impacted a little bit, but we  
17 still had a significant number of our resources.  
18 We lost some of the resources that had to go down  
19 south to respond to their own home states, so we  
20 lost some of the southern crews. But we had a  
21 significant number of resources to just basically  
22 clean up the outages that we had during that,  
23 basically, the day that they occurred.

24 MINORITY CHAIRMAN DALEY: I want to  
25 thank you and publicly say I think you did a great

1 job. I know for those people that were out for  
2 more than three days, it became very cataclysmic  
3 for them. However, nevertheless, this is something  
4 that's out of everyone's hands, unless we move the  
5 state of Pennsylvania to Florida, and I don't think  
6 we can do that legislatively.

7 MR. INNOCENZO: Thank you.

8 MAJORITY CHAIRMAN GODSHALL: I just want  
9 to mention, I did talk directly to the deputy at  
10 the emergency operations center in Montgomery  
11 County. They said the cooperation couldn't have  
12 been any better than what it was. Each event there  
13 was a learning process, and each event there was a  
14 plan developed on how to approach these things and  
15 it's going to be renewed and developed.

16 I also talked to the emergency  
17 operations center in Bucks County, and I had the  
18 same report about how well everything and the  
19 coordination worked. We were working together, and  
20 there was really no big hassles or -- Everybody was  
21 working together to try to get this thing taken  
22 care of. So, I just wanted to mention that.

23 I have a number of other --  
24 Representative Payne has -- We'll start at the  
25 bottom end and work up.

1           REPRESENTATIVE PAYNE: Thank you, Mr.  
2 Chairman, I think.

3           Mike, real quick. For me, I think it  
4 would be interesting, being from the central  
5 Pennsylvania or Hershey area, is to just see a  
6 little fact sheet on where all did the other  
7 utilities come from; how many from other states,  
8 how many people.

9           And the second part of that is, we do  
10 the same thing. You go to those states --

11           MR. INNOCENZO: Absolutely.

12           REPRESENTATIVE PAYNE: -- and maybe that  
13 would be -- At least for me, I think it would be  
14 interesting. In the last--you pick a time frame--  
15 five years, 10 years, you've been out of the state  
16 20 times to help these states; they've been in to  
17 help us. I think that speaks volumes when people  
18 say the utilities don't cooperate or there's not  
19 enough competition or they're not working together.  
20 You are working together.

21           MR. INNOCENZO: It is. I would say it's  
22 unique to the utility industry. I don't think  
23 that's quite -- It's probably unique in the private  
24 industry to utilities in the amount of sharing that  
25 we do for resources. But I think the good example

1 is government. So, just as the government would  
2 move resources around from county to county to help  
3 and support where there's the needs, that's similar  
4 to what we do. When you get an event like that,  
5 everyone helps out.

6 REPRESENTATIVE PAYNE: And I think the  
7 biggest difference -- And I've been in the private  
8 sector now and the government, too. That's an  
9 expectation of government; to help people to do  
10 those kind of things; to move your National Guard  
11 or your resources there.

12 But when you're a for-profit company,  
13 sometimes that's something different. So, if you  
14 could provide that, I think it would be  
15 interesting.

16 MR. INNOCENZO: Sure.

17 REPRESENTATIVE PAYNE: The six customer  
18 care centers that you mentioned that you set up, as  
19 a best demonstrative practice, is that something  
20 you've done before? Do you go back to the same  
21 area so people know where they're at? Are you  
22 going to communicate that and try to stay with  
23 those locations so, in the future, it's not a new  
24 learning curve; they know?

25 MR. INNOCENZO: Actually, we don't go to

1 the same locations, and here's why: The goal for  
2 those communications centers, when you get down to  
3 those --

4 In the first or second day of the event,  
5 you've got several hundred thousand customers off.  
6 Usually, the best form of information to be able to  
7 handle that is through your phone systems and the  
8 media, in general. Then you're getting hundreds of  
9 thousands of customers that are coming on fairly  
10 quickly within a couple of days.

11 As you get to the lengthier day, now the  
12 customer has been off for two or three more days.  
13 They obviously want more specific information, and  
14 we want to be able to help them out understanding  
15 why; and also, make sure that we've got all the  
16 information we have. So, we set up these customer  
17 care locations to go to those hardest-hit areas.

18 We have a number of them that we're  
19 ready to staff and ready to execute on that we've  
20 done all the logistics ahead of time on. Which  
21 ones we activate depends upon which storm hits and  
22 where the damage is.

23 REPRESENTATIVE PAYNE: All right. I  
24 understand that. Last question, and I am a  
25 proponent of the smart meters. I think that's



1 something that most consumers just don't appreciate  
2 yet how beneficial that can be.

3           If the smart meters are in effect, won't  
4 that -- I think I know the answer to this, but I  
5 need you to confirm that. Won't that tell you that  
6 that single house doesn't have power yet?

7           MR. INNOCENZO: It does, but it's a  
8 little bit of the nature of the embedded outage.  
9 So what a smart meter knows is, a smart meter knows  
10 I either have power or I don't have power. What a  
11 smart meter can't tell is, am I without power  
12 because the wire between the pole and my house is  
13 out, or is it that the transformer's out, or is it  
14 that large wire that's out on the highway that's  
15 out, or is it all three.

16           REPRESENTATIVE PAYNE: Okay.

17           MR. INNOCENZO: So, we still need -- The  
18 smart meters were a huge advantage to us in Irene,  
19 Sandy and in this storm. What they enable us to do  
20 is identify as we continually poll the meters to  
21 find out which customers are still off and avoid  
22 unnecessary truck rolls. If a customer is already  
23 back on because of a larger outage, we don't send  
24 an unnecessary truck roll.

25           Our estimations, in probably all three

1 of the events, we probably had about a two-day less  
2 of a restoration because of avoiding an unnecessary  
3 truck roll. So, it was very effective.

4 REPRESENTATIVE PAYNE: Thank you. Thank  
5 you, Mr. Chairman.

6 MAJORITY CHAIRMAN GODSHALL: Thank you.  
7 I'd just like to comment on that. John, they  
8 have -- Smart meters have changed now to advanced  
9 metering. We changed the nomer (phonetic), just  
10 like global warming has been changed to weather  
11 changing. So we've changed smart meters to  
12 advanced metering, for your information.

13 Representative Stephens.

14 REPRESENTATIVE STEPHENS: Thank you.  
15 And thanks for answering the question on smart  
16 meters. That takes one off of my list.

17 In all seriousness, my hometown in my  
18 district was probably one of the hardest-hit in the  
19 storm; Horsham Township, and the response from PECO  
20 was terrific. Hands down, I think you guys did a  
21 great job.

22 One of the reasons that I had asked the  
23 Chairman to have this hearing is to focus on what  
24 we can do to prevent these outages, and there are a  
25 couple of things in your testimony I wanted to ask

1 about. You noted that Philadelphia didn't really  
2 experience significant outages, and I don't know if  
3 you've had a chance to look at whether that was  
4 because of the path of the storm or whether it's  
5 because there are less trees and vegetation near  
6 homes. Has there been any assessment on why that  
7 was the case?

8 MR. INNOCENZO: Little of both, but  
9 mostly the path of the storm. If you recall, most  
10 of the damage, it was, the further you got west of  
11 I-95; the further you got -- closer to 95 that you  
12 got, and east, just because of the way this one  
13 traveled, you had either less or, in some cases, no  
14 damage at all.

15 As you got further west and north of 95,  
16 that's where we saw that ice line and the severe  
17 damage. So, a lot of it was this particular path  
18 of the storm. We've had previous storms that have  
19 been -- Philadelphia, and there is also the issue  
20 of the tree density, which is different in  
21 Philadelphia than the --

22 REPRESENTATIVE STEPHENS: And I guess,  
23 one of the things that jumped out at me and one of  
24 the reasons why this has become a concern of mine  
25 is when -- I think there was a sewage treatment

1 plant in Bucks County that was out for five days,  
2 six days as a result of this storm. We had  
3 hospitals that were off-line. We had significant  
4 emergency services and necessary facilities that  
5 were not available as a result of this.

6 And I know I mentioned to you, the day  
7 we were out at PECO during the storm, the idea of  
8 burying these power lines. When you look at the  
9 costs that you'll incur for the repairs, has an  
10 assessment been done by anybody, either by your  
11 company, by the PUC or even other states -- I guess  
12 other states would be tough because their climate  
13 isn't identical to ours --

14 MR. INNOCENZO: Sure.

15 REPRESENTATIVE STEPHENS: -- to take a  
16 look at, could we be spending our money more wisely  
17 by burying these power lines as opposed to just  
18 coming back and putting band-aids on the same power  
19 lines that keep getting knocked down?

20 I have communities that just, every  
21 single time there's a storm like this, because of  
22 all the vegetation, because of all the trees near  
23 the power lines, they're knocked out. They  
24 continually tell me, if we just buried them once,  
25 we wouldn't have this problem every single storm.

1 Can you speak to that a little bit.

2 MR. INNOCENZO: Yeah. There's actually  
3 been fairly extensive, kind of, review of that  
4 cost-wise and reliability impact, both with our  
5 company as well as other utilities, I'm sure, will  
6 tell you the same thing, as well as nationally.

7 Burying the lines solves some problems;  
8 it doesn't solve other problems. It certainly  
9 would help you during a storm like this. There are  
10 other issues that come with underground. And just  
11 the cost, the order of magnitude is 10 times to 1  
12 in terms of underground lines versus aerial lines.

13 So, a blanket that says, hey, what if we  
14 just bury lines, is that something that makes  
15 sense, or is that something that, from either a  
16 reliability standard or a cost perspective, really  
17 doesn't work.

18 What does work, and I think there's more  
19 pocket -- Undergrounding is a very good tool in  
20 your tool belt for isolated areas. As we look at a  
21 specific area that's got poor reliability, you've  
22 got to look at all the tools. Tree trimming, do we  
23 have all the tree trimming that we can; preventive  
24 maintenance. Undergrounding is certainly one of  
25 those if there's pocket areas where you just can't

1 solve it any other way.

2 Undergrounding in an isolated area  
3 certainly would be more expensive, but if you're  
4 not talking about the entire area, you can manage  
5 those costs and solve a specific reliability  
6 problem.

7 REPRESENTATIVE STEPHENS: I hate to  
8 interrupt you, but let me just get to that point.  
9 My neighborhood, which was built in the early  
10 '70's, all the power lines are buried, but we still  
11 lose power because, right outside of our  
12 neighborhood, none of the power lines are buried.

13 MR. INNOCENZO: Right.

14 REPRESENTATIVE STEPHENS: I guess to  
15 that point, does it really help unless you're going  
16 to do something on a broader scale? If you just do  
17 an isolated area, how much benefit do you really  
18 get out of that?

19 MR. INNOCENZO: You're exactly correct.  
20 You can have the entire development buried, but if  
21 it's fed from an aerial line that runs through a  
22 heavily-densed tree area, you're going to be just  
23 as susceptible to the tree outages that are there.  
24 Again, unless you bury everything, you're not going  
25 to be totally immune to tree damage.

1           But there are areas where, if you have,  
2           let's say a really heavily-densed area that the  
3           outages occur in that specific area over and over  
4           again, that might be an area where, either through  
5           more aggressive tree trimming, additional  
6           installation of reclosers, undergrounding maybe  
7           that particular area.

8           We have something called tree wire.  
9           It's a more heavily aerial -- it's an aerial cable.  
10          It's not as expensive as the underground, but it  
11          also helps to protect against some incidental tree  
12          damage. So there's a lot of tools that you can use  
13          in it to try and take a balance approach.

14          REPRESENTATIVE STEPHENS: One of my  
15          other questions, then, involves the vegetation  
16          management and the tree trimming. I know you said  
17          PECO spends about \$35 million a year?

18          MR. INNOCENZO: Correct.

19          REPRESENTATIVE STEPHENS: Has that  
20          remained constant? I mean, is that \$35 million  
21          every year? So we're getting less value out of  
22          that each year, then, if the number stays the same;  
23          obviously, costs go up and everything else like  
24          that. I'm sure you have more power lines to take  
25          care of each year, especially down in our area. I

1 mean, there's still growth and a lot of new  
2 development.

3 So, are we getting less bang for the  
4 buck, then, every single year if we're seeing the  
5 same expenditure?

6 MR. INNOCENZO: No. We're continuing to  
7 get -- 35 is a nominal number. Some years it's a  
8 little higher, but it's essentially that. But, no.

9 We have an aggressive five-year cycle  
10 for that. That started in the late '90's, so we're  
11 in the fourth cycle of that. We do pocketed areas  
12 that have more dense trees. We do more aggressive  
13 tree trimming in those areas. We do what's called  
14 a mid-cycle trimming for an area where we have --  
15 We have some species of trees that are more rapidly  
16 growing than others. So, those areas we won't wait  
17 until the next cycle. We'll come and get that on  
18 the mid-cycle.

19 If you look at overall reliability, part  
20 of this is making sure we're balanced; what work  
21 are we doing and how does that show up in the  
22 results. We've had our best overall reliability in  
23 2012. We beat that again in 2013. We'll  
24 constantly look at that, but I think we feel very  
25 confident in what we've done with the veg



1 management.

2 REPRESENTATIVE STEPHENS: Okay. I  
3 continue to -- I have great concerns that we aren't  
4 doing enough to prevent these outages. I'll  
5 continue to work with you and the other utility  
6 companies to try to figure out a way to help  
7 address this.

8 But, to me, having sewage treatment  
9 plants off-line for six days, having hospitals  
10 without power, having emergency facilities without  
11 power is a problem. And I certainly don't want to  
12 diminish -- Your response was terrific in getting  
13 all those troops mobilized and getting them out and  
14 getting power restored as quickly as possible;  
15 certainly a massive undertaking, and I think you  
16 did a great job with it. I just would like to see  
17 if we can do more to prevent the outages to begin  
18 with.

19 MR. INNOCENZO: We'll be happy to  
20 continue to work with you.

21 REPRESENTATIVE STEPHENS: Thank you.

22 MAJORITY CHAIRMAN GODSHALL:

23 Representative Masser.

24 REPRESENTATIVE MASSER: Thank you, Mr.  
25 Chairman.

1           I want to first commend you for the part  
2 where you said you're concentrating a lot more on  
3 working with the municipal leaders, because I think  
4 that's so key when things like this occur. There  
5 are oftentimes folks who are actually on the trucks  
6 themselves, on their township trucks and things,  
7 working. Folks are always turning to them looking  
8 for the information. I commend you for that.

9           When you talked about smarter grids, I  
10 should say, and the switches that are being  
11 incorporated now to sort of isolate those outages,  
12 how long has this technology been in use in your  
13 service area?

14           MR. INNOCENZO: In our territory, I  
15 would say it's almost about 20 years now. I would  
16 probably put the first generation of these devices  
17 in in the early '90's, and we've continued to both  
18 grow it, as well as enhance the technology that we  
19 use.

20           REPRESENTATIVE MASSER: Any estimations  
21 what a storm like this would have done had you not  
22 had those types of technologies?

23           MR. INNOCENZO: Well, just sort of rough  
24 numbers, the way these devices work is, they --  
25 essentially, on a raw level, they'll take an outage  
that would have affected an entire circuit and

1 break it up into a third. Without those types of  
2 devices, you would have probably seen double the  
3 amount of outages that we saw in this.

4 REPRESENTATIVE MASSER: Thank you.

5 MAJORITY CHAIRMAN GODSHALL:

6 Representative Kampf.

7 REPRESENTATIVE KAMPF: Thank you, Mr.  
8 Chairman.

9 Mike, I'm in Chester and Montgomery  
10 counties, and, in particular, Tredyffrin Township  
11 and Schuylkill Township and Chester County were  
12 pretty hard-hit.

13 On the subject of using some of the  
14 tools in the toolbox, like isolated areas, maybe  
15 looking at some intense vegetation; trim back or  
16 even burying some of the lines, I probably could  
17 provide you with a short list of some areas. So  
18 I'm encouraged by that testimony.

19 I did have a bunch of folks talk about,  
20 with the ETR system, this kind of phenomenon where  
21 they were told at 11 o'clock that night they'd be  
22 restored, and then 11 came and went. And then it  
23 sort of reset and it said 11 o'clock the next  
24 night. There were even some reports, although  
25 sometimes it's not clear whether it's totally

1 accurate, it happened even a third time.

2 What would you say was going on there?

3 MR. INNOCENZO: For the most part,  
4 that's that, I guess, the issue I described where  
5 you have the embedded outage. What we'll do is --  
6 we'll know, let's say, an entire circuit is off.  
7 It feeds 3,000 customers. We'll know that all  
8 3,000 of those customers do not have power.  
9 They've called us. We can see from the automatic  
10 meter reading that their power is off. What we  
11 don't know is how many pieces of trouble between  
12 getting the electric back on and the customer  
13 themselves.

14 So, we make the first piece of trouble  
15 -- make the restoration on the first piece of  
16 trouble; restore 80 percent of those customers.  
17 Those 80 percent of the customers that were told  
18 that, you'll be on by 11 o'clock tonight, we got  
19 them back on, but with additional embedded outages  
20 and additional trouble that we have to fix. Now  
21 those customers are not back on and we need to get  
22 another crew out there to fix that.

23 In some cases where we're able to -- The  
24 way we worked this storm and with the number of  
25 resources, we were able to mitigate some of that by

1 patrolling entire circuits and patrolling lines.  
2 And just because of the sheer volume of resources  
3 we had, we were able to make that a lot less than  
4 we had during Hurricane Sandy, but it's something  
5 that we weren't able to eliminate, so we'll  
6 continue to look for ways to mitigate that going  
7 forward.

8 REPRESENTATIVE KAMPF: So you think  
9 there may be technological ways to reduce that kind  
10 of phenomenon going on in the next one?

11 MR. INNOCENZO: There is. We're  
12 continuing to look at both work process-wise. We  
13 were able to do some work-process changes in this  
14 one that helped to lessen it. We saw much less of  
15 it during this event than we did during Sandy.

16 Also, as we further deploy the AMI  
17 network, we're looking to ways we can maybe further  
18 leverage that technology to help us get at that  
19 better.

20 REPRESENTATIVE KAMPF: Mr. Chairman,  
21 just two other quick ones, I promise.

22 I did have a couple of municipalities  
23 ask for circuit-by-circuit information about  
24 outages; not to share with the general public, but  
25 so that they would have an idea if a particular

1 neighborhood, say, needed more police patrols or  
2 something like that. So, I don't know if that's  
3 possible, but I was asked if I could try to achieve  
4 that.

5 Then the other is determining whether  
6 the line that has now fallen over a road is yours  
7 or some other utility's. We had a couple of  
8 difficulties like that in my area. Can you speak  
9 to that and how we might improve that?

10 MR. INNOCENZO: Yeah, sure.

11 First on the information available to  
12 outages, we'll continue to work with you on that.  
13 Obviously, it's a balance between privacy security  
14 for customers, but we want to make sure the  
15 townships and the municipalities have what they  
16 need to effectively work that, so we'll take that  
17 one.

18 In terms of the wires, obviously, we're  
19 not the only wires that are on the poles; a lot of  
20 communication cables that are there. The way we  
21 work the process is, we will -- Again, I'll thank  
22 again our county emergency response directors for  
23 helping us work this process. They've worked the  
24 process where we funnel all of those road closures  
25 up at the county level, and that really helps us

1 prioritize which ones we should get on first and  
2 which ones we should get after. It helps us  
3 also -- when you can see all of that kind of  
4 gathered at the county level, it also helps us make  
5 sure we resource that appropriately.

6 What we will do is, we will send -- As  
7 we get the prioritized list from the counties,  
8 we'll then work the highest priority ones first;  
9 the road closure ones where we've got the road  
10 closed and it's impacting travel, safety throughout  
11 the community.

12 At the same point in time, we send folks  
13 out there that may not be able to repair the line  
14 but can at least patrol and identify. So we have a  
15 lot of resources that work that portion of the list  
16 as well.

17 For example, 40 percent of the ones that  
18 we came across -- maybe 30 to 40 percent of the  
19 ones we came across were not PECO wires at all. We  
20 were able to identify it as communications cables,  
21 cable TV, phone and be able to get that information  
22 back to the counties to say, hey, look, the wire is  
23 still there, but it's not an electric wire. And,  
24 therefore, you can either work with the  
25 communications officials or safely do your work.

1 MAJORITY CHAIRMAN GODSHALL: Chairman  
2 Daley.

3 MINORITY CHAIRMAN DALEY: Just a remark  
4 about the five-year plan, and spending about  
5 \$200 million over the five years is a lot of money.  
6 Most people don't realize the way utilities have  
7 done--correct me if I'm wrong--the abatement  
8 program that you have concerning non-toxic sprays  
9 that can be placed on some of the shrubbery and  
10 vegetation, which retards growth. So, year 6  
11 you're probably getting a bigger bang for your buck  
12 than you did in year 1 because you're not back,  
13 maybe, in the same area. But, generally, you may  
14 be back in the same area, but you may be doing  
15 something more extensive because of the abatement  
16 program you have between 1 and 5.

17 MR. INNOCENZO: That's correct.

18 MINORITY CHAIRMAN DALEY: Am I correct?

19 MR. INNOCENZO: That's correct.

20 MINORITY CHAIRMAN DALEY: I mean, it's a  
21 different world now than it was, say, 15 years ago  
22 in terms of --

23 MR. INNOCENZO: It is.

24 MINORITY CHAIRMAN DALEY: -- sending  
25 somebody to cut the trees down. It's not like that



1 anymore.

2 MR. INNOCENZO: That's right. The first  
3 cycle is certainly the most intense. Each time you  
4 go through it, you're staying on top of it. You're  
5 maintaining it, both the growth retardance that you  
6 described as well as the directional trimming that  
7 we do. So that, even as you get growth, it grows  
8 in a direction away from the lines. So, it's  
9 helped us as we go through each cycle.

10 MINORITY CHAIRMAN DALEY: It is a  
11 science now. It's not like, we gotta cut that tree  
12 down here, here and here. I mean, they know growth  
13 patterns of trees; how fast they grow, what tree  
14 needs to go, and the proximity from the center line  
15 of that power line.

16 MR. INNOCENZO: That's correct.

17 MINORITY CHAIRMAN DALEY: I mean, I'm  
18 amazed by some of the science that you're  
19 utilizing.

20 MR. INNOCENZO: Our folks do some really  
21 good work there.

22 MINORITY CHAIRMAN DALEY: Right.

23 MR. INNOCENZO: Thank you.

24 MINORITY CHAIRMAN DALEY: Thank you, Mr.  
25 Chairman.

1 MAJORITY CHAIRMAN GODSHALL: Just a  
2 couple of things. I was one of the fortunate ones  
3 that did not go out this last outing. A lot in my  
4 neighborhood -- I didn't have gas. We all know  
5 that.

6 But, one of the things that was brought  
7 to my attention by a couple of the municipalities  
8 was, bamboo has been a problem, apparently, in some  
9 areas underneath the lines, and bamboo apparently  
10 spreads and goes right up into the lines. Is that  
11 becoming more and more of a problem?

12 MR. INNOCENZO: It is. But, again, I  
13 will credit to the -- It is more of a problem, but  
14 I'll give credit to the township. We work very  
15 closely with the township. One of the things we  
16 talk about with each of the townships and  
17 municipalities is promoting proper tree planting  
18 and, you know, planting the right species in the  
19 right locations.

20 I think we've gotten very good  
21 cooperation from the townships and municipalities  
22 around making sure that is both communicated  
23 throughout there and also policed; making sure  
24 there's the right planting. We want to peacefully  
25 coexist with the trees, but it's the right species

1 and the right location.

2 MAJORITY CHAIRMAN GODSHALL: Thank you  
3 very much. I also want to thank you for the  
4 monumental effort that you put into this last storm  
5 and getting people back onboard.

6 I wanted to ask you, the 6,800 people  
7 that you had out working on the storm, coming from  
8 other states and so forth, are these volunteers?  
9 Or, when you send people into somebody else's  
10 outages to help them, are they volunteers or is  
11 that part of their job?

12 MR. INNOCENZO: Well, it is a  
13 volunteer -- When we send folks to another utility,  
14 we look for volunteers. I mean, they're  
15 compensated for their work, but it is a volunteer  
16 effort. So that's folks that decided to leave  
17 their families, leave their homes and, in some  
18 cases, leave their homes with trouble to come and  
19 help us and help our customers. So, they're  
20 absolutely to be commended.

21 MAJORITY CHAIRMAN GODSHALL: Well, thank  
22 you very much. We appreciate you being here today  
23 with us. Thank you.

24 MR. INNOCENZO: Thank you very much.

25 MAJORITY CHAIRMAN GODSHALL: At this

1 time, we'd like to call up Dennis Urban, Vice  
2 President of Finance and Regulatory Affairs, from  
3 PPL.

4 MR. URBAN: Good morning, Chairman  
5 Godshall, Chairman Daley and members of the  
6 committee. I'm Dennis Urban, Vice President of  
7 Finance and Regulatory Affairs for PPL Electric  
8 Utilities.

9 I submitted, in addition to my written  
10 testimony, a PowerPoint presentation, and I'll be  
11 speaking to that presentation here this morning  
12 rather than the written testimony.

13 So, starting on slide 2, generally  
14 speaking, PPL and its customers faired pretty well  
15 this winter, outside of the storm event in early  
16 February. As Mike mentioned, the storm hit our  
17 service territory late in the night of February 4th  
18 and into the morning of February 5th.

19 In total, we had 92,000 customers'  
20 outages that were impacted, but the bulk of that  
21 was concentrated in the Lancaster area where we had  
22 74,000 customers out. Just for the frame of  
23 reference, this is more customers impacted in that  
24 area than we had during Hurricane Sandy. Happy to  
25 say, we had 60 percent of our customers back within

1 one day, and 99 percent of our customers were back  
2 within 72 hours.

3 We had 1,600 resources in the field,  
4 including our crews, contractors and line workers  
5 from utilities as far away as Alabama and Georgia.  
6 We also had utility workers from Duquesne Light  
7 Company, in the western part of our state, aiding  
8 in our restoration effort. The crews restored over  
9 800 individual jobs.

10 So, if you think about the amount of  
11 damage, each of those individual jobs impacted  
12 relatively few customers, and the bulk of the  
13 damage was caused by the falling trees and limbs.  
14 They couldn't withstand the weight of the ice  
15 buildup on the branches.

16 Noteworthy for us is that we had no  
17 transmission lines impacted in the Lancaster area,  
18 and we only had one transmission outage on our  
19 entire system during this event. This is due, in  
20 large part, to the aggressive tree-trimming  
21 practices we put in place over the last several  
22 years.

23 I'm onto slide 5 at this point.

24 Our vegetation work is beginning to pay  
25 dividends in the form of improved reliability.

1 We've expanded a tree-trimming concept, or  
2 vegetation management concept that we use on our  
3 transmission lines into our distribution lines, and  
4 I'll talk about that a little bit on the next  
5 slide. But we believe, without this stepped-up  
6 effort on the vegetation side, that we probably  
7 would have had a much more severe impact related to  
8 this storm.

9           So, on slide 6, there's a before-and-  
10 after picture of the vegetation management practice  
11 I'm talking about. So, on our transmission lines,  
12 we have employed a tree-trimming concept, or a  
13 vegetation management concept known as wire zone/  
14 border zone. So we basically go down to the ground  
15 level of the right of way and all the way out to  
16 the perimeters of the right away and trim all the  
17 trees out and remove everything at the ground  
18 level.

19           So, if you look at one of our  
20 transmission lines that have gone through this  
21 process, it looks like an airport runway with a  
22 power line running down the middle of it. What  
23 that does is that it lessens the potential for  
24 trees that are outside of the right of way being  
25 able to fall into the right of way and impact the

1 wires.

2           So, what you're looking at on this slide  
3 is a distribution line. On the before side is what  
4 looks like our -- it was our previous tree-trimming  
5 practice where we basically cleared around the  
6 line. We didn't remove anything below the line.  
7 And in a lot of cases, the overhanging branches  
8 weren't removed at all.

9           So, what we're doing going forward, and  
10 we've been doing this for about 18 months at this  
11 point is, on our distribution lines, we have  
12 ground-to-sky clearance. So we're clearing out the  
13 entire right of way that our distribution lines sit  
14 in, all the way down to the ground level and all  
15 the way up above where the circuits extend.

16           The other thing we're doing as we're  
17 going through this process is, we're removing what  
18 we call danger trees. Danger trees are trees that  
19 are outside of the right of way that, either  
20 through blight or some other disease or rot or  
21 potential damage from prior storms, have the  
22 potential to fall into the right of way. So, as  
23 we're going through this cycle, we're also removing  
24 those trees as well. And, a lot of times they may  
25 be on the customer's property. We've gotten really

1 good cooperation from customers because they  
2 understand the risk of that tree impacting the  
3 lines on the streets.

4 So, the payback for us has been improved  
5 reliability for this. We've had 43 percent less  
6 tree-related outages in 2013 compared to the  
7 average of the previous three years, and this is  
8 after removing the impacts associated with the  
9 major storms in 2011 and 2012.

10 Now, moving on to some of our improved  
11 assets out on the system. So we're also seeing  
12 improved reliability from installing the smart  
13 devices that Mike was referring to. These devices  
14 limit the impact of the interruption by  
15 automatically rerouting power around the impacted  
16 area. And at the same time, they also send a  
17 signal to our control center so our operators can  
18 react much quicker.

19 In the Harrisburg area where we piloted  
20 this technology, the customers in Harrisburg  
21 experienced a 45 percent increase in reliability  
22 just one year after the installation. So, we're  
23 installing these devices across our system, and  
24 we're doing it by targeting what is deemed to be  
25 our worst-performing circuits; so, places where we



1 can get the most bang for the buck immediately.

2 But also, as we're installing and investing in  
3 other reliability-type projects, we're installing  
4 those devices in those areas as well.

5 In terms of communications, we continue  
6 to improve with our communications to customers  
7 during major storm events. We're using the social  
8 media contacts. We have stepped up our website.  
9 We also have a stepped-up mobile device site that  
10 customers can access.

11 For this storm, we had over 180,000  
12 customer contacts, both for reporting outages and  
13 to track our status during the outages, and over 90  
14 percent of them were handled through self-service  
15 means. So, less than 10 percent of those contacts  
16 had to come into our customer care center, and they  
17 actually talked to a representative.

18 We also have continued our practice of  
19 outreach efforts to inform customers where they can  
20 get free ice and water during these events, if  
21 they're out of service, and also to alert them to  
22 the location of warming centers as they go through  
23 the restoration process. And we continued our  
24 practice of conducting daily conference calls with  
25 local officials to provide status updates and to

1 hear of any concerns with our restoration strategy.

2           So, much as Mike alluded to, we also  
3 conduct a lessons-learned exercise after each of  
4 these events, and we share information through a  
5 utilities' best practices working group with other  
6 members of our peer utilities. Some of the things  
7 that came out of this that we appeared to have done  
8 well is, once we did the initial assessment of our  
9 system to understand where the damage was, we broke  
10 away the regions that were less impacted so that  
11 they could manage them on an autonomous basis.  
12 That allowed us to focus our efforts down in the  
13 Lancaster area.

14           Based on lessons learned from Hurricane  
15 Sandy, we also implemented a practice in this  
16 event, whereby, we had dedicated crews that were  
17 assigned to restore an entire circuit. This ended  
18 up being much more efficient for the crews, and it  
19 also allowed us to mitigate some of those embedded  
20 outages that Mike referred to before, because the  
21 crews, as they were restoring the circuits, they  
22 were still there to look at all the way out to the  
23 end of the circuit to understand if there was  
24 additional damage that needed to be dealt with.

25           Then we also set up centralized material

1 trailers during this event, which worked out very  
2 well for us because the crews didn't have to waste  
3 time traveling from a job back to a service center  
4 to get material and then go back out to the job.  
5 We basically had the material right where the  
6 damage had happened, and they were able to move  
7 from job to job way more efficiently.

8           So, our customer reaction to our efforts  
9 during this event were very good. Couple weeks  
10 after the storm, we surveyed a group of customers  
11 in this area, and 78 percent of those customers  
12 gave us high marks on our restoration efforts,  
13 which was a marked improvement from both Hurricane  
14 Sandy and the May 2011 storm.

15           Some other areas for improvement. We  
16 can do a better job of understanding the skills and  
17 capabilities of foreign crews, I'll call them, or  
18 contractors and, also, foreign utility crews that  
19 are coming into our service territory, so we can  
20 better prepare jobs for them as they arrive, and  
21 get the material ready for them so they can be  
22 expedited into the restoration effort.

23           We also have observed that we can do a  
24 much better job on the material side. So, we're  
25 looking at a, I'll call it a just-in-time-material-

1 delivery type of concept, whereby, we can have the  
2 material at the next job location waiting for the  
3 crews, to expedite them from moving from job to  
4 job.

5 We also are committed to improving our  
6 process for providing estimated restoration times.  
7 We employ some of the same practices as Mike talked  
8 about for PECO. Early on in the stages of a storm  
9 event like this, we suppress the estimated  
10 restoration times to allow us time to get out on  
11 the system and really understand the damage and the  
12 resources that we'll need.

13 And then, as we plan our strategy for  
14 the day, we begin providing what we call regional  
15 estimated restoration times. And then as we get  
16 further out and there's less and less customers  
17 impacted, then we move to a more of an individual  
18 restoration time for those remaining customers.

19 One of the things we did for this storm  
20 event that was a lesson learned coming out of  
21 Hurricane Sandy is that, if we understood, you  
22 know, partway or most of the way through the day  
23 that some customers weren't going to be restored as  
24 we had anticipated, we did some proactive calling  
25 to those customers. It was well-received because,

1 as you can imagine, the unknown is what bothers  
2 customers. If they know that they're going to be  
3 out for another period of time, they can make plans  
4 to make their accommodations for that evening.

5 Our system reliability is improving  
6 thanks to that stepped-up vegetation management  
7 practice that I talked about earlier, but also  
8 because of the targeted reliability investments  
9 we've been undertaking.

10 In 2013, the number of power outages on  
11 our system decreased by 9 percent. The duration of  
12 those outages also decreased by 11 percent compared  
13 to the outage of the previous three years. Again,  
14 this is after adjusting for the major storm events.

15 A lot of that investment is shown on  
16 slide 15. So, as you can see here, we're investing  
17 about a billion dollars per year over the next five  
18 years in both our transmission and distribution  
19 system. And the majority of the investment in  
20 transmission is all reliability-driven, and around  
21 60 percent of the distribution investment is geared  
22 towards reliability.

23 On slide 16 -- And most of that  
24 investment on the distribution system is targeting  
25 our aging infrastructure. The bulk of our system

1 was built out in the '60's, the '70's and early  
2 '80's. As we had urban sprawl, more and more  
3 customers were using electronics and the  
4 introduction of more and more electric appliances.  
5 Now that infrastructure is 40, 50, 60 years old,  
6 and it's at the end of its useful life, so we're  
7 replacing a lot of transformers, circuit breakers,  
8 wires and substation equipment. And as we're doing  
9 this, we have a storm-hardening in mind. So, as  
10 we're replacing poles and we're replacing wires,  
11 we're installing bigger, stronger, more resilient  
12 poles and wires in the process.

13           This may surprise some folks, but  
14 another leading cause for outages, outside of  
15 storms, is animal contact. We have a program in  
16 place where we're installing animal guarding  
17 throughout our system to keep the playful critters  
18 away from our equipment.

19           At the same time, we're modernizing and  
20 automating our system. That's a lot of the smart  
21 grid investment we talked about earlier; so that we  
22 have a lot more automation that we can reroute  
23 customers and get them back in service much  
24 quicker.

25           So, a lot of the distribution-related

1 investment we are able to perform and able to  
2 undertake thanks to the distribution system  
3 improvement charge that was part of Act 11 of 2012.  
4 That gives us a more-timely cost recovery of that  
5 type of investment. And it allows us to more  
6 efficiently plan the work, buy the materials and  
7 finance those activities. Again, I don't miss a  
8 chance to thank Chairman Godshall for his  
9 leadership in making that legislation a reality.

10 Then again, as Mike mentioned as well,  
11 we have stepped up our preventive maintenance  
12 programs. So, we have helicopter line patrols,  
13 pole inspections, substation inspections, infrared  
14 inspections out on our system looking for hot  
15 spots. This is a proactive identification of areas  
16 that could be a concern, and we're addressing them  
17 before it has an impact to our customers.

18 This last slide is our commercial, but,  
19 actually, it's at the forefront of our daily work.  
20 It's our goal to have top quartile performance in  
21 safety, reliability, customer satisfaction and  
22 community involvement. After all, that's why we're  
23 in business.

24 That concludes my remarks, and I'd be  
25 happy to answer any questions.

1 MAJORITY CHAIRMAN GODSHALL:

2 Representative Payne. No, I'm sorry.

3 Representative Stephens.

4 REPRESENTATIVE STEPHENS: Thank you for  
5 your testimony. Do you know how your vegetation  
6 management plan differs from PECO's, by any chance?

7 MR. URBAN: No. I'm --

8 REPRESENTATIVE STEPHENS: Maybe I need  
9 to get the two of you around the same table.

10 MR. URBAN: I'm a finance and regulatory  
11 guy. I'm not an operations guy. I can tell you  
12 that our approach has changed drastically in the  
13 last few years.

14 The philosophy that we have is that,  
15 because we've been hit with these numbers of  
16 storms, the competition for outside resources is  
17 getting more and more robust. So, if you think  
18 about the last few years, the entire eastern  
19 seaboard has been impacted, and one of the  
20 challenges is making sure you get enough resources  
21 in to deal with it.

22 We've become real aggressive on the tree  
23 trimming side because of that. So, we know that in  
24 the future it may be difficult for us to get  
25 resources in and the numbers we have in the past,



1 or in the time frame we have in the past, so we're  
2 really aggressive on the tree side to make sure  
3 that we're trying to mitigate the damage that can  
4 happen in these storms.

5 REPRESENTATIVE STEVENS: I don't know if  
6 you can answer it or staff or somebody else. Are  
7 there vegetation management plans that have to be  
8 submitted to the PUC and everything else like that?  
9 Anyone know?

10 MR. URBAN: I'm not sure in terms of the  
11 vegetation management practices.

12 REPRESENTATIVE STEVENS: Yes?

13 (Unidentified voice...inaudible words).

14 REPRESENTATIVE STEVENS: Okay.

15 So I can get those and compare what different  
16 companies do and how they approach it? All right.  
17 Thank you.

18 (Unidentified voice...inaudible words).

19 REPRESENTATIVE STEVENS: They're filed,  
20 but they might not be public. All right. We'll  
21 have to find that -- All right. I'll look into it.

22 Thank you very much. I appreciate it.

23 MAJORITY CHAIRMAN GODSHALL: Under  
24 vegetation, as aggressively as you talk, how do you  
25 get by the homeowners who want to protect all their

1 trees? I know that's been a problem in the past in  
2 some areas. Unfortunately, the person that's  
3 protecting this individual tree affects the people  
4 down the road and up the road. So, how do you get  
5 around that situation?

6 MR. URBAN: So, we don't get around it.  
7 We basically go through it. That sounds rather  
8 aggressive. We start with proactive notification  
9 that we're going to be coming through the area and  
10 trimming trees. And we get a lot of -- not a lot,  
11 but we do encounter some homeowners that are more  
12 difficult than others. We work with them and we  
13 explain to them the purpose for it.

14 In a lot of cases, we'll actually  
15 mitigate the area where we -- well, in all cases we  
16 mitigate the area where we remove the trees, but  
17 we'll also agree, in some cases, to plant  
18 replacement trees for them on their property; you  
19 know, a show of good will in a lot of cases.

20 But you're right. This has been  
21 received real well by 95 plus percent of the  
22 customers that we have dealt with, and the other  
23 5 percent are just very attached to their trees.  
24 And really, we're just enforcing our rights, so  
25 they shouldn't -- Anything that grows up within

1 that right of way, we have the right to remove.

2 MAJORITY CHAIRMAN GODSHALL: Chairman  
3 Daley.

4 MINORITY CHAIRMAN DALEY: I was just  
5 going to advance the utility right of way. Most  
6 people, when they buy properties, there are right  
7 of ways; there's easements on those deeds. I just  
8 dealt with FirstEnergy on a situation where they  
9 came in and there were some really ornamental trees  
10 that needed to go, and there were replacement trees  
11 offered.

12 The mitigation process with utility  
13 companies is a lot different than it was 15, 20  
14 years ago where they'd come and say, like, too bad;  
15 it's gone. It's a whole different world now, and I  
16 know there's a lot of mitigation on terms of  
17 quality of tree, quantity of tree, different shrub,  
18 low-growing shrubs. That's much more within the  
19 parameters of the legal framework that you have,  
20 but it's also more of a customer service type of  
21 thing, too.

22 MR. URBAN: Sure.

23 MINORITY CHAIRMAN DALEY: It's a  
24 different world now; am I not right?

25 MR. URBAN: It is. It absolutely is.

1 I guess the other thing I would point  
2 out is, the first time through is the hardest part,  
3 right? Going forward it gets much easier and  
4 easier because now we're just trimming back, you  
5 know, anything that might have grown into that  
6 right of way, and the treatment of the ground cover  
7 is much more cost-efficient going forward. We have  
8 less customer intervention the second time through.

9 MAJORITY CHAIRMAN GODSHALL: Thank you  
10 very much. I do -- I've been -- I was directly in  
11 line down where I live with the PECO situation. I  
12 heard very little on PPL problems as far -- I know  
13 you were out in Lancaster more than our area where  
14 you serve also. We didn't have the ice in  
15 Montgomery -- the upper end of Montgomery County  
16 and Berks and so forth where I live.

17 I appreciate your efforts and appreciate  
18 the efforts of your people in trying to get us back  
19 on service as quick as you have. I just want to  
20 say thank you, and I appreciate your testimony.

21 MR. URBAN: Thank you.

22 MAJORITY CHAIRMAN GODSHALL: At this  
23 point, the last testifier is David Karafa,  
24 President of Pennsylvania Operations for  
25 FirstEnergy.

1           Mr. Karafa, I hope I pronounced that  
2 semi-correctly.

3           MR. KARAFKA: As good as anybody else.

4           Good morning, Chairmen Godshall, Daley  
5 and members of the committee. I'm David Karafa,  
6 President of FirstEnergy's Pennsylvania Operations.  
7 I appreciate the opportunity to provide information  
8 regarding the response of Met-Ed to Winter Storm  
9 Nika that hit our service area on February 5th,  
10 2014.

11           My testimony will address key issues,  
12 including our planning and preparation in advance  
13 of the storm; the scale and scope of our  
14 restoration efforts; as well as our communication  
15 outreach to customers, state and local officials,  
16 emergency management agencies and media outlets. I  
17 also would like to discuss the substantial capital  
18 investments in our energy delivery infrastructure,  
19 our ongoing vegetation management activities, and  
20 the implementation of lessons learned from  
21 Hurricane Sandy, all of which enabled us to restore  
22 service safely and quickly in response to this  
23 winter storm.

24           To put the impact of Winter Storm Nika  
25 in perspective, the severe weather disrupted

1 service to nearly 136,000, or 25 percent, of our  
2 Met-Ed customers.

3           Before I discuss our efforts specific to  
4 the February storm, I would like to underscore our  
5 commitment to continuously improving our response  
6 to our Pennsylvania customers on two fronts:  
7 Strengthening and enhancing day-to-day service  
8 reliability, and providing options for customers to  
9 connect with us and get the information they need  
10 if they do experience a power outage.

11           Regarding our electric system,  
12 FirstEnergy's Pennsylvania utilities spent more  
13 than \$366 million last year to expand and  
14 strengthen our infrastructure. Major projects  
15 included maintaining overhead and underground  
16 circuits and inspecting nearly 130,000 utility  
17 poles, as well as energizing new substations and  
18 installing sectionalizing devices to help limit the  
19 impact of unplanned outages. Of particular note  
20 are infrastructure projects completed in recent  
21 years across our Met-Ed service area that are  
22 helping to reduce the number and duration of  
23 outages.

24           In 2013, we produced some of the best  
25 service reliability numbers ever reported for

1 Met-Ed, surpassing the benchmark established by the  
2 Pennsylvania Public Utility Commission.

3           To further reduce service interruptions,  
4 this year, FirstEnergy expects to spend nearly  
5 \$460 million in major projects designed to meet our  
6 primary objective of providing the quality of  
7 service our customers expect and deserve. In  
8 addition to operational and maintenance work, these  
9 projects include upgrading existing distribution  
10 circuits, replacing underground cables, installing  
11 automated and remote control devices, and ongoing  
12 tree-trimming activities, all designed to enhance  
13 electric service reliability.

14           As you may know, tree-related storm  
15 damage is the leading cause of power outages in the  
16 Commonwealth. To address this reality, we have  
17 spent nearly \$256 million since our merger with  
18 Allegheny Energy in 2011 trimming trees and other  
19 vegetation across our Pennsylvania service area.  
20 And this year, we're spending approximately \$83.5  
21 million as part of our ongoing program to trim  
22 trees and help maintain proper clearance along  
23 thousands of circuit miles of lines.

24           Now I would like to provide a brief  
25 overview of FirstEnergy's service restoration

1 process, which is recognized by the Edison Electric  
2 Institute as one of the best in the industry, and  
3 was implemented by Met-Ed in response to the severe  
4 winter weather in early February.

5           Let me begin by highlighting that safety  
6 is essential to all FirstEnergy activities, and  
7 throughout every stage of our service restoration  
8 process, safety is the top priority. To that end,  
9 we make sure our employees have the information,  
10 procedures and equipment to perform their duties in  
11 a manner that helps ensure safety for themselves,  
12 their co-workers and the public.

13           Another key element of our service  
14 restoration process is the planning, preparation  
15 and pre-staging efforts that we initiate days  
16 before a storm strikes. As part of those efforts,  
17 FirstEnergy's in-house meteorologists monitor  
18 weather reports and track storms to assess the  
19 potential impact on our electric system and service  
20 area.

21           If we determine that a storm could  
22 potentially disrupt service, company leadership and  
23 operations managers from across the affected area  
24 evaluate the need for crews, materials and  
25 equipment, including crews from other FirstEnergy



1 operating companies, our mutual assistance  
2 partners, line contractors, outside utilities and  
3 electrical co-ops.

4           During early stages of the service  
5 restoration process, hazard responders assess  
6 damage to the electric infrastructure and locate  
7 electrical hazards, such as downed and potentially  
8 energized wires and other equipment, and then  
9 remain at those locations to protect the public  
10 until linemen safely isolate or clear the hazard.  
11 Next, forestry crews clear fallen trees and other  
12 vegetation so utility workers can repair and  
13 reenergize the power lines.

14           Crews then focus on restoring service to  
15 high-voltage transmission equipment, substation  
16 facilities that supply power to local distribution  
17 systems; then, on a high-priority basis, to  
18 hospitals, critical care and life-support  
19 facilities, fire departments and other first  
20 responders. After that, we make repairs that will  
21 bring the greatest number of customers back in  
22 service.

23           At the same time, we implement an  
24 integrated communications process for reaching  
25 customers, state and local officials, emergency

1 management agencies, media outlets and other  
2 stakeholders to keep them apprised of our  
3 preparation and planning efforts. We do this  
4 through proactive outreach by phone and e-mail, as  
5 well as communications materials, including news  
6 releases, public service announcements, media  
7 advisories, website content and social media.  
8 Working in tandem with FirstEnergy's communications  
9 team, our external affairs managers establish  
10 one-on-one communications with state and local  
11 officials and county EMAs.

12           As a result of lessons learned from  
13 Hurricane Sandy, we're making information more  
14 accessible to customers so they can check the  
15 progress of service restoration efforts when  
16 experiencing an outage. Our 24/7 Power Center  
17 outage maps, available on our website, displayed  
18 the status of crews restoring service after a power  
19 outage. With this enhancement, which launched  
20 February 28th, customers can see when crews have  
21 been dispatched, when they are working on a repair,  
22 and when additional crews and equipment are needed  
23 to complete restoration work.

24           Following Hurricane Irene, we also  
25 acknowledged the need to more aggressively pursue

1 social media as another chance to communicate with  
2 customers during a storm. We now include enhanced  
3 social media components to our communications  
4 efforts, including Twitter feeds and two-way  
5 conversations with customers, via Twitter,  
6 regarding service issues.

7 Customers who visit Met-Ed's Facebook  
8 page can use the new "Report an Outage" tab to let  
9 us know about a power disruption. The app, which  
10 we introduced earlier this month, is integrated  
11 with our automated reporting system to help ensure  
12 outages are quickly and accurately recorded. These  
13 new tools complement the broad array of  
14 communications service we've introduced in the past  
15 year, including our e-mail and text message alert  
16 notifications that contain weather alerts in  
17 advance of major storms and updates on scheduled or  
18 extended power outages. Customers can also use  
19 two-way text messaging to report outages, request  
20 updates on restoration efforts, and make other  
21 inquiries about their electric accounts.

22 Now I would like to provide information  
23 specific to our service restoration efforts in  
24 response to Winter Storm Nika, which brought up to  
25 a half an inch of ice that downed trees and power

1 lines in eastern Pennsylvania.

2           Several days before the storm hit, we  
3 began monitoring weather conditions and preparing  
4 for the possible impacts of heavy ice and snow  
5 accumulations across the region. Due to the  
6 weather forecasts, we implemented our storm  
7 preparation process, including staffing additional  
8 dispatchers and analysts at our regional dispatch  
9 office, and making arrangements to bring in  
10 additional line, substation and forestry personnel,  
11 as required, based on the severity of the weather.  
12 In addition, our on-site contractors were notified  
13 they were on standby to assist, if required, with  
14 storm restoration efforts over the next several  
15 days.

16           The ultimate goal of our pre-planning  
17 efforts is to accelerate the restoration process  
18 and minimize any inconvenience our customers  
19 experience due to the weather. To that end, we  
20 pre-staged line and hazard crews while increasing  
21 the number of forestry personnel and support staff  
22 at various locations in Pennsylvania. And to  
23 further prepare for the efficient deployment of  
24 crews and equipment, we established a staging site  
25 at the York County Fairgrounds.

1           Our service restoration activities  
2 required the efforts of support staff and utility  
3 crews, including 640 workers from Met-Ed, 865  
4 workers from FirstEnergy and other FirstEnergy  
5 utility companies, 560 line contractors and mutual  
6 assistance workers, and nearly 410 forestry  
7 contractors.

8           In all, approximately 2,500 individuals,  
9 including FirstEnergy employees, contractors and  
10 mutual assistance crews, responded to more than  
11 1,615 damage locations. Due to the damage caused  
12 by scores of fallen tree limbs and other debris, we  
13 repaired or replaced 174 poles, 526 cross arms, 115  
14 transformers and 31 miles of wire, in addition to  
15 the miles of wire that were reattached to poles.

16           Although the storm disrupted service to  
17 136,000 customers over the duration of the storm,  
18 122,000 customers, or more than 90 percent,  
19 experienced an outage duration of less than three  
20 days.

21           Well before the snow and ice began  
22 falling, we issued news releases regarding the  
23 possible impacts of heavy ice and snow  
24 accumulations across our service area and our  
25 efforts to prepare for the oncoming storm. In the

1 releases, we encouraged customers to report any  
2 outages and downed wires, and provided information  
3 on how to receive updates on reported outages.  
4 Over the course of the storm, we issued numerous  
5 news releases and media advisories.

6 Through social media, including Facebook  
7 and Twitter, we shared pre-storm information, as  
8 well as updates throughout the service restoration  
9 process, and responded to customer inquiries on  
10 both platforms. We had nearly 2,500 Twitter  
11 followers and about 950 Facebook "likes" by the  
12 time we concluded our restoration efforts.

13 On our website, our newsroom and storm  
14 information pages provided a central source of  
15 information, including outage updates, safety  
16 information and tips, available shelters and  
17 warming stations, and ice and water distribution  
18 locations. As another follow-up to lessons learned  
19 following Sandy, we created a mobile version of our  
20 website that customers can access through their  
21 mobile phones or other devices.

22 Our 24/7 Power Center outage maps, which  
23 are updated about every 15 minutes, were available  
24 on our website and displayed the status of crews  
25 restoring service after a power outage. We also

1 displayed information including the number of  
2 customers affected and cause of the outage, as well  
3 as estimated restoration times. Our outage maps  
4 received nearly 132,000 page views for the mobile  
5 version, and 82,000 page views for the web version  
6 during our service restoration process.

7           From Tuesday, February 4th, through  
8 Sunday, February 9th, our communications department  
9 conducted daily interviews with radio and TV  
10 stations, including in-studio and phone interviews  
11 and at our Met-Ed offices in York.

12           In preparation for the severe weather,  
13 Met-Ed's external affairs managers began sending  
14 notification e-mails to local officials, emergency  
15 management agencies and Red Cross chapters in the  
16 nine counties expected to be most affected by the  
17 storm. Our customer contact centers handled  
18 approximately 83,000 outage-related calls from  
19 Met-Ed customers from February 5th to February 9th.

20           Over the course of this weather event,  
21 we continued making outbound calls and sending  
22 e-mails to emergency management agencies and local  
23 officials, as well as schools, water treatment  
24 plants, hospitals and other critical facilities  
25 located across the affected area. These

1 communications provided status updates on our storm  
2 activities, outage numbers and safety tips. We  
3 conducted calls with elected officials and public  
4 officials in York County, one of the hardest-hit  
5 areas of the storm, and helped post current outage  
6 information on their website.

7 Our outreach continued with service  
8 restoration updates, including detailed information  
9 as individual circuits were restored, and we  
10 responded to inquiries from legislators to resolve  
11 issues with specific customers. In addition,  
12 Met-Ed representatives were made available as  
13 needed to assist county emergency management  
14 agencies and operations centers.

15 In closing, I would like to thank our  
16 customers for their patience as our dedicated crews  
17 worked around the clock to restore service safely  
18 and quickly following the severe winter weather in  
19 early February. And on behalf of the thousands of  
20 employees, contractors and others who assisted in  
21 our efforts, I would like to extend a special thank  
22 you to the emergency management agencies and the  
23 Red Cross, as well as state and local officials,  
24 for their invaluable help during the storm.

25 While Winter Storm Nika presented many



1 challenges, our response was well-managed,  
2 effective and safe. We believe there's always room  
3 for improvement and remain committed to enhancing  
4 our service restoration process in ways that should  
5 even better serve our customers during  
6 storm-related outages in the future.

7 Thank you for the opportunity to provide  
8 testimony today.

9 MAJORITY CHAIRMAN GODSHALL: Chairman  
10 Daley.

11 MINORITY CHAIRMAN DALEY: 83,000  
12 customer contacts in four days is absolutely  
13 unfathomable. A few years ago we could have never  
14 seen that. Today, those types of contacts are  
15 really remarkable. You have to be committed, as  
16 well as the other utility people that were here and  
17 spoke.

18 That's into a call center? How does  
19 that work? Does it come into a call center and  
20 then that information is just sent right out to the  
21 field -- to the different field locations? Is that  
22 how that works?

23 MR. KARAFI: Yes, that's correct.

24 MINORITY CHAIRMAN DALEY: And you got  
25 pretty well everybody turned back on in five days?

1 MR. KARAFKA: That is correct; yes, sir.

2 MINORITY CHAIRMAN DALEY: Total event,  
3 from the three testifiers today, was about 970,000  
4 customers affected. Although you're a little  
5 smaller than PECO, I mean, it's substantial,  
6 nevertheless, when it's you, unless it's Bob  
7 Godshall who doesn't get power outages --

8 (Laughter).

9 MAJORITY CHAIRMAN GODSHALL: I have gas  
10 outages. We all know that.

11 MINORITY CHAIRMAN DALEY: We've heard  
12 about that.

13 I want to congratulate you and everyone  
14 else that's participating today. I think you've  
15 done a remarkable job. You're on the ball, and  
16 you're trying to make the ball even a better  
17 solution in the future. I think that's remarkable  
18 in itself, too. Thank you very much.

19 MR. KARAFKA: Yes. And thank you very  
20 much. A lot of this has to do with lessons learned  
21 in Hurricane Irene, Snowtober, Hurricane Sandy; all  
22 the utilities working with the commission and best  
23 practices and sharing lessons learned. So we can  
24 continue to improve on it, but all the utilities  
25 have really done a remarkable job from where we

1 were a couple of years ago.

2           MINORITY CHAIRMAN DALEY: What was that  
3 one great thing? If you don't learn from history,  
4 you'll have to relive the history again. I know I  
5 kind of changed that quote, but I mean, one thing  
6 about the utilities companies is you get it. You  
7 learn from history, and you start doing from there  
8 so it doesn't happen again, and you don't get  
9 caught with your proverbial power lines down in the  
10 process.

11           MR. KARAFKA: Thank you.

12           MAJORITY CHAIRMAN GODSHALL: I just want  
13 to say that, the purpose of this hearing was really  
14 to bring out to the public exactly what you did and  
15 what the companies did to address a bad situation.  
16 I don't think anybody really knows the degree to  
17 which you people worked around the clock to try to  
18 take care of the situation that we were in here in  
19 Pennsylvania.

20           As I said in the beginning, when you  
21 calculate that out with the outages, it really  
22 amounts to someplace between a million and  
23 200 million people, of our 12 plus million people,  
24 affected here in Pennsylvania by this storm, which  
25 is a tremendous amount of people that were

1 affected; a tremendous job that the utilities did  
2 to try to bring them back on board, which was done  
3 successfully in a relatively short period of time.

4 So, I just wanted to say thank you. I  
5 wanted to -- There was only one way to go at this  
6 point is to go forward from here. I think some of  
7 the things that were suggested by the various  
8 utilities here today, as far as tree trimming and  
9 so forth, is something we have to look at.

10 As you said in your testimony, that the  
11 biggest cause of the whole problem is trees and  
12 limbs. That's what we're living with here in  
13 Pennsylvania, and it's got to be looked at and it's  
14 got to be taken care of.

15 Anyway, I appreciate it all. I  
16 appreciate the members here today. I appreciate  
17 the testifiers and the people that joined us and  
18 say thank you, all.

19 With that, the meeting is adjourned.

20 (At 11:34 a.m., the hearing concluded).

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C E R T I F I C A T E

I, Karen J. Meister, Reporter, Notary Public, duly commissioned and qualified in and for the County of York, Commonwealth of Pennsylvania, hereby certify that the foregoing is a true and accurate transcript, to the best of my ability, of a public hearing taken from a videotape recording and reduced to computer printout under my supervision.

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Karen J. Meister  
Reporter, Notary Public