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BEFORE THE
ILLINOIS COMMERCE COMMISSION
PUBLIC UTILITY SPECIAL OPEN MEETING
March 4, 2020
Springfield, Illinois

Met pursuant to notice at 1:00 p.m., at
Illinois Commerce Commission, 527 East Capitol
Avenue, Springfield, Illinois.

PRESENT:

- CARRIE ZALEWSKI, Chairman
- SADZI M. OLIVA, Commissioner
- MARIA S. BOCANEGRA, Commissioner
- MICHAEL T. CARRIGAN, Commissioner
- D. ETHAN KIMBREL, Commissioner

REPORTED BY: MICHELLE A DUZAN, CSR, RPR
License No. 084-004270

1 CHAIRMAN ZALEWSKI: Good afternoon. I have
2 1 o'clock. Are we ready to proceed in Chicago.

3 COMMISSIONER BOCANEGRA: Yes, we are.

4 CHAIRMAN ZALEWSKI: Thank you. Under the
5 Open Meetings Act, I call the March 4, 2020, Special
6 Open Meeting to order. Commissioners Carrigan and
7 Kimbrel are with me in Springfield. Commissioners
8 Bocanegra and Oliva are joining us from Chicago.

9 We have a quorum.

10 We have two requests to speak. The first is
11 from Dave Davis, representing 350Kiswaukee, and the
12 second is Edward D. McNamara, representing Sue Allen,
13 a complainant in the Commission Docket 19-0771.

14 Under 2 Illinois Administrative Code Section
15 1700.10, any person desiring to speak to the
16 Commission shall be allowed up to three minutes.
17 Only one person may speak on behalf of the
18 organization. Please note that the Commission will
19 not respond directly to your comments.

20 So we'll start with Mr. Davis.

21 THE CHIEF CLERK: He's in Chicago. I think
22 he was to be in Chicago.

23 CHAIRMAN ZALEWSKI: Are you Mr. Davis?

24 MR. DAVIS: Yes.

1 CHAIRMAN ZALEWSKI: Okay. If you want to
2 come up and sit at the table and turn on your
3 microphone. I'm going to time from my -- my phone
4 and I'm going to try to stay diligent on the time.
5 So at three minutes, I will -- I will --

6 THE CHIEF CLERK: Push the button. Yes.

7 MR. DAVIS: Hear me okay?

8 CHAIRMAN ZALEWSKI: You may proceed.

9 MR. DAVIS: Commissioners, we respectfully
10 stand before you today seeking a general
11 understanding of your interpretation of 220 ILCS
12 5/1-102, Section b, which mandates generally the
13 protections of the environment from the adverse
14 external costs of utility -- public utility services
15 so that environmental costs of proposed actions are
16 considered in the regulatory process.

17 We're guessing that your interpretation of
18 these words may have changed over the past few years
19 based on the warnings from the scientific community;
20 for instance, the United Nations Emission Gap Report
21 2019, stating that we must cut greenhouse gas
22 emissions 2.7 percent by the year 2020, which is now.
23 And also the World Scientists' warning of the climate
24 emergency signed by 1,300 -- 13,422 scientists from

1 156 countries. That was as of 8:00 a.m. this
2 morning. And they stated, and I quote, we should
3 leave remaining fossil fuels -- stocks of fossil
4 fuels in the ground.

5 So we're wondering how you -- how heavily
6 you may weigh the growing number of alarms in your
7 future decisions based on your charge under 220 ILCS
8 5/1-102, Section b. Your sense -- a sense of your
9 direction will help us as we draft and support new
10 legislation.

11 And we do have one other question. We seek
12 your interpretation of a previous Commission decision
13 in Docket 17-0311. That was the petition to decrease
14 public utilities, electric statutory savings targets
15 as set forth under the heavily negotiated FEJA and
16 that -- that petition was filed 29 days after FEJA
17 officially set those targets. And we're asking you
18 to help us understand how the dire emission warnings
19 that existed even in 2017 and the Commission's charge
20 under 220 ILCS 5/1-102, subject b, may have involved
21 -- been involved in the decision in 17-0311,
22 Commission decision to override a broad range of
23 opposing parties including staff.

24 We welcome your feedback, realizing you

1 can't give it to us now, but we really are sincerely
2 interested in your feedback on these issues and any
3 insight you can give us as we do draft legislations.
4 Thank you, Commissioners. We appreciate the
5 opportunity to speak.

6 CHAIRMAN ZALEWSKI: Thank you, Mr. Davis.

7 Okay. Next, Mr. McNamara. Let me reset the
8 clock real quick.

9 You may proceed.

10 MR. McNAMARA: Good afternoon. Thank you.
11 My name is Edward McNamara. I represent Sue Allen, a
12 homeowner in Decatur. Her property abuts -- in fact,
13 located on her property is an Ameren power line. I
14 filed a complaint on her behalf back in July, and
15 we've had some hearings -- hearings on this, but not
16 any hearings where evidence was presented. So
17 although it's an application for rehearing that
18 you'll hear today, it's a misnomer because there have
19 been no evidentiary hearings. It was dismissed
20 without a hearing.

21 Now, I have a copy of the memo that Nicole
22 Roth presented to you when you heard the case back in
23 December. And I have extra copies of it, page 2. I
24 have extra copies of my complaint. And I have extra

1 copies of the relevant pages from the case that they
2 rely upon.

3 And let me say this. I'm not picking on
4 Nicole Roth. Judge Roth was not the judge that heard
5 the case. Judge Yoder heard the case.

6 THE CHIEF CLERK: You're not being heard
7 over the Internet.

8 MR. McNAMARA: Oh, I'm sorry.

9 THE CHIEF CLERK: That's okay.

10 MR. McNAMARA: Judge Yoder heard the case,
11 made the decision, and then Judge Roth, without
12 having heard the case, made the recommendation to the
13 Commission.

14 Now, I believe a recommendation is wrong in
15 several respects. I have a copy of page 2. Number
16 one, they're relying upon the CenterPoint Energy
17 case. That was a case where intervenors were
18 requesting the Commission to return to them certain
19 easements on their property, wanting the gas
20 transmission company to do that. Another interesting
21 point in that case, and part of the remedy I'm asking
22 for, there was a question as to whether CenterPoint
23 had made representations to the Commission -- to the
24 landowners that they were returning the easements.

1 That case stands for the proposition that the
2 Commission did not have jurisdiction to order the
3 CenterPoint to return the easements.

4 One other important thing the Commission did
5 in that case. The Commission ordered CenterPoint to
6 advise the landowners that they were not returning
7 the easements to the landowner. Very important
8 point, because what I'm asking for in this case is
9 two things; that the Commission hear this case on the
10 nonemergency vegetation management provisions. And
11 I've quoted them in my complaint. Judge Roth in her
12 memo to you says that I did not --

13 CHAIRMAN ZALEWSKI: That's time. Thank you.
14 We appreciate it.

15 MR. McNAMARA: Can I give you these
16 documents? I think they will --

17 CHAIRMAN ZALEWSKI: I -- I have all the
18 documents. They're all on the e-Docket system, as I
19 understand. And I've personally read them, and I
20 think we all have access to them. I appreciate it
21 though.

22 MR. McNAMARA: Thank you.

23 CHAIRMAN ZALEWSKI: Thank you. Thank you.

24 So now we're moving on to our Public

1 Utilities agenda.

2 There are edits to the January 22nd, 2020,
3 Policy Session minutes. There are edits to the
4 February 5th, 2020, Regular Open Meeting minutes.
5 There are no edits to the February 18th, 2020,
6 Regular Open Meeting minutes.

7 Are there any objections to approving the
8 minutes as edited?

9 (No response.)

10 CHAIRMAN ZALEWSKI: Hearing none, the
11 minutes are approved.

12 We're now moving on to the Electric items.
13 Item E-1 concerns ERM No. 20-011, which is
14 MidAmerican's filing to modify the revenue credit to
15 include Rider Tax Expense Revision Mechanism, or
16 Rider TERM. The filing will add the delivery portion
17 of Rider TERM to the credit calculation methodology.
18 The Commission staff recommends not suspending the
19 filing.

20 Are there any objections to not suspending
21 the filing?

22 (No response.)

23 CHAIRMAN ZALEWSKI: Hearing none, the filing
24 is not suspended.

1 Items E-2 through E-4 concern requests for
2 confidential treatment of petitioners' reports. The
3 Orders grant the protection, finding that the
4 information is highly proprietary and confidential.

5 Are there any objections to considering
6 these items together and approving the Orders?

7 (No response.)

8 CHAIRMAN ZALEWSKI: Hearing none, the Orders
9 are approved.

10 Item E-5 concerns Docket 19-0549, which is a
11 complaint against Sperian Energy alleging that the
12 customer did not give consent for the company to
13 become an energy supplier. The parties filed a
14 stipulation and joint motion to dismiss, noting that
15 they have resolved all the disputes and asking the
16 Commission to dismiss the complaint with prejudice.

17 Are there any objections to granting the
18 joint admission -- joint motion to dismiss and
19 dismissing the complaint with prejudice?

20 (No response.)

21 CHAIRMAN ZALEWSKI: Hearing none, the motion
22 is granted.

23 Item E-6 concerns Docket 19-1098, which is a
24 complaint against ComEd to recover customer's solar

1 credit reserve. The parties filed a stipulation and
2 joint motion to dismiss, noting that they have
3 resolved all the disputes and asking the Commission
4 to dismiss the complaint with prejudice.

5 Are there any objections to granting the
6 joint motion to dismiss and dismissing the complaint
7 with prejudice?

8 (No response.)

9 CHAIRMAN ZALEWSKI: Hearing none, the motion
10 is granted.

11 Item E-7 concerns Docket 19-0658, which is a
12 complaint against ComEd regarding a requested change
13 of electric service provider. The complainant has
14 not filed an amended complaint after the Commission
15 granted a leave to amend the complaint. The Order,
16 therefore, dismisses the complaint for want of
17 prosecution.

18 Are there any objections to approving the
19 Order?

20 (No response.)

21 CHAIRMAN ZALEWSKI: Hearing none, the Order
22 is approved.

23 Item E-8 concerns Ameren's request to
24 reconcile revenues under its Rider Clean Energy

1 Assistance Charge, or CEAC, from June 2018 to May
2 2019. The Order approves a reconciliation as set in
3 the appendix of the Order, finding that the costs
4 during the reconciliation period were prudently
5 incurred.

6 Are there any objections to approving the
7 Order?

8 (No response.)

9 CHAIRMAN ZALEWSKI: Hearing none, the Order
10 is approved.

11 Item E-9 concerns Ameren's request to make
12 revenue-neutral tariff changes related to rate
13 design. Ameren proposes to use the same rate design
14 methodology utilized in the previous revenue-neutral
15 tariff change proceeding, or Docket 16-0387, with few
16 changes. Ameren also proposes to maintain delivery
17 service price uniformity across all rate zones for
18 all rate type -- excuse me -- all charge types and
19 customer classes approved in Docket 19-0436 with some
20 exceptions. The Commission staff has reviewed the
21 proposed changes and recommends approval of the
22 changes as indicated in the Order. The Order
23 approves the rate design set forward in this
24 proceeding.

1 Are there any objections to approving the
2 Order?

3 (No response.)

4 CHAIRMAN ZALEWSKI: Hearing none, the Order
5 is approved.

6 Items E-10 and E-11 concern applications for
7 certifications to install distributed generation
8 facilities in Illinois. The Orders grant the
9 certificates, finding that the applicants meet the
10 requirements.

11 Are there any objections to considering
12 these items together and approving the Orders?

13 (No response.)

14 CHAIRMAN ZALEWSKI: Hearing none, the Orders
15 are approved.

16 Item E-12 concerns an application for a
17 license to operate as a Retail Electric Agent,
18 Broker, and Consultant in Illinois. The Order grants
19 the license, finding that the applicant meets the
20 requirements.

21 Are there any objections to approving the
22 Order?

23 (No response.)

24 CHAIRMAN ZALEWSKI: Hearing none, the Order

1 is approved.

2 Item E-13 concerns a petition to cancel a
3 certificate to operate as an Energy Efficiency
4 Installer. The Order cancels the certificate.

5 Are there any objections to approving the
6 Order?

7 (No response.)

8 CHAIRMAN ZALEWSKI: Hearing none, the Order
9 is approved.

10 Items E-14 through E-29 concern applications
11 for Certifications to install Energy Efficiency
12 Measures in Illinois. The Orders grant the
13 certificates, finding that the applicants meet the
14 requirements.

15 Are there any objections to considering
16 these items together and approving the Orders?

17 (No response.)

18 CHAIRMAN ZALEWSKI: Hearing none, the Orders
19 are approved.

20 Under our Gas items, item G-1 concerns the
21 initiation of Ameren's reconciliation of revenues
22 collected under Rider Gas Efficiency -- excuse me,
23 Rider Gas Energy Efficiency Cost Recovery or Rider
24 GER for the calendar year 2019. The Order commences

1 the annual reconciliation proceedings under the
2 Rider.

3 Are there any objections to approving the
4 Order?

5 (No response.)

6 CHAIRMAN ZALEWSKI: Hearing none, the Order
7 is approved.

8 Item G-2 concerns the initiation of Nicor's
9 reconciliation of revenues collected under Rider 30,
10 the Gas Energy Efficiency Plan Cost Recovery for the
11 calendar year 2019. The Order commences the annual
12 reconciliation proceedings under the Rider.

13 Are there any objections to approving the
14 Order?

15 (No response.)

16 CHAIRMAN ZALEWSKI: Hearing none, the Order
17 is approved.

18 Item G-3 concerns the initiation of North
19 Shore and Peoples Gas's reconciliation of revenues
20 collected under Rider EOA, the Energy Efficiency and
21 On-Bill Financing Adjustment for the calendar year of
22 2019. The Order commences the annual reconciliation
23 proceedings under the Rider.

24 Are there any objections to approving the

1 Order?

2 (No response.)

3 CHAIRMAN ZALEWSKI: Hearing none, the Order
4 is approved.

5 Item G-4 concerns Docket 16-0458, which is
6 Nicor's request for reconciliation of revenues
7 collected under Nicor Gas's Rider 30, or the Energy
8 Efficiency Plan Cost Recovery from June 2015 to May
9 2016. The Order approves a reconciliation as set in
10 the Appendix of the Order, finding that the costs
11 during the reconciliation period were prudently
12 incurred.

13 Are there any comments on this one from
14 Commissioners?

15 (No response.)

16 CHAIRMAN ZALEWSKI: Hearing none, all in
17 favor of approving the Order, say aye.

18 (Chorus of ayes.)

19 CHAIRMAN ZALEWSKI: All opposed say nay.

20 COMMISSIONER OLIVA: Nay.

21 CHAIRMAN ZALEWSKI: The ayes have it. And
22 the Order is approved.

23 Item G-5 concerns Docket 19-0575, which is a
24 complaint against North Shore Gas as to an allegedly

1 unreasonable invoice for moving customer gas pipe due
2 to the construction at her house. The Order denies
3 the complaint because the complainant failed to show
4 that North Shore is responsible for the cost of
5 moving the gas pipes and that the invoice for the
6 re- -- excuse me, the relocation was excessive.

7 Are there any objections to approving the
8 Order?

9 (No response.)

10 CHAIRMAN ZALEWSKI: Hearing none, the Order
11 is approved.

12 Items G-6 and G-7 concern requests for
13 confidential treatment of information in the
14 petitioners' report. The Orders grant the
15 protection, finding that the information is highly
16 proprietary and confidential.

17 Are there any objections to considering
18 these items together and approving the Orders?

19 (No response.)

20 CHAIRMAN ZALEWSKI: Hearing none, the Orders
21 are approved.

22 Item G-8 concerns a request by Liberty
23 Utilities to amend its Money Pool arrangement with
24 its subsidiaries. The amendments to the arrangement

1 will allow Liberty Utilities to pass on lower
2 interest rates to participants in the Money Pool.
3 The Commission Staff has reviewed the amendments and
4 recommends granting the request. The Order approves
5 the requested amendments.

6 Are there any objections to approving the
7 Order?

8 (No response.)

9 CHAIRMAN ZALEWSKI: Hearing none, the Order
10 is approved.

11 Item G-9 concerns a motion to withdraw the
12 application for service authority to operate as an
13 alternative gas supplier.

14 Are there any objections to granting the
15 motion to withdraw the application?

16 (No response.)

17 CHAIRMAN ZALEWSKI: Hearing none, the motion
18 to withdraw is granted.

19 Moving on to our Telecommunications items.

20 Item T-1 concerns a petition for
21 determination of the amount and form of supplemental
22 assistance to be provided by local exchange
23 telecommunications carriers. The Order determines
24 that the Universal Telephone Service Assistance

1 Program should provide a connection fee assistance to
2 eligible new subscribers for an amount up to \$35.
3 The Order also authorizes eligible telecommunications
4 carriers to continue to pass through to their
5 qualified low-income customers the full amount of the
6 federal Lifeline support, which is \$9.25.

7 Are there any objections to approving the
8 Order?

9 (No response.)

10 CHAIRMAN ZALEWSKI: Hearing none, the Order
11 is approved.

12 Item T-2 concerns an amended application for
13 authority to operate as a reseller of Interexchange
14 Communications in Illinois. The Order grants the
15 certificate, finding that the applicant meets the
16 requirements.

17 Are there any objections to approving the
18 Order?

19 (No response.)

20 CHAIRMAN ZALEWSKI: Hearing none, the Order
21 is approved.

22 Item T-3 concerns Docket 19-1110, which is a
23 complaint against AT&T Illinois as to a failure to
24 return a refund. The parties filed a stipulation and

1 joint motion to dismiss, noting that they resolved
2 all of the disputes and asking the Commission to
3 dismiss the complaint with prejudice.

4 Are there any objections to granting the
5 joint motion and dismissing the complaint with
6 prejudice?

7 (No response.)

8 CHAIRMAN ZALEWSKI: Hearing none, the motion
9 is -- the motion to dismiss is granted.

10 Items T-4 through T-13 concern requests for
11 proprietary treatment of information in the
12 petitioners' annual reports. The Orders grant the
13 protection, finding that the information is highly
14 proprietary and confidential.

15 Are there any objections to considering
16 these items together and approving the Orders?

17 (No response.)

18 CHAIRMAN ZALEWSKI: Hearing none, the Orders
19 are approved.

20 Items T-14 through T-18 concern petitions by
21 telecommunications service providers to cancel their
22 certificates to operate in Illinois. The Orders
23 cancel those certificates, finding that the
24 cancellations will not deprive any Illinois customer

1 of necessary telecommunications services and are not
2 otherwise contrary to the public interest.

3 Are there any objections to considering
4 these items together and approving the Orders?

5 (No response.)

6 CHAIRMAN ZALEWSKI: Hearing none, the Orders
7 are approved.

8 Now moving on to our Water and Sewer items.

9 Item W-1 concerns Illinois-American's filing
10 to revise its filed rate schedule sheets. The
11 Commission suspended the proposed changes in
12 November 2019. The Commission's investigation in
13 this matter has not been concluded, and it is
14 necessary, therefore, to extend the period of
15 suspension for a -- for a further period of six
16 months. The Order extends the suspension until
17 October 1st, 2020.

18 Are there any objections to approving the
19 Order?

20 (No response.)

21 CHAIRMAN ZALEWSKI: Hearing none, the Order
22 is approved.

23 Under our Miscellaneous items, item M-1
24 concerns Docket 19-0696, which is a proposed repeal

1 of Part 793 of the Commission's rules. Part 793
2 implemented Section 13-407 of the Public Utilities
3 Act, which required the Commission to report annually
4 to the General Assembly on the telecommunications
5 markets in Illinois. Section 13-407 was repealed in
6 2018, so Part 793 can also be repealed. The second
7 notice of the proposed repealer was submitted to the
8 Joint Committee on Administrative Rules, which
9 considered the rulemaking in its November 2019
10 meeting and issued a certificate of no objection.
11 The Order thus adopts the repeal of the Part 793.

12 Are there any objections to approving the
13 Order?

14 (No response.)

15 CHAIRMAN ZALEWSKI: Hearing none, the Order
16 is approved.

17 Item M-2 concerns an application to use,
18 occupy and construct facilities in public
19 right-of-ways for the delivery of video service and
20 for State-issued authority to provide a video service
21 to the Villages of Teutopolis and Watson. The
22 Administrative Law Judge recommends granting the
23 authority for the applicant subject to the
24 applicant's lawful operation.

1 Are there any objections to granting this
2 authorization?

3 (No response.)

4 CHAIRMAN ZALEWSKI: Hearing none, the
5 authorization is granted. The Commission notes that
6 this grant of authority is subject to the lawful
7 operation of video service by the applicant, its
8 affiliated entities, and its successors in interest.

9 Moving on to our Petitions For Rehearing.

10 Item PR-1 concerns Docket 19-0771, which is
11 a complaint against Ameren regarding issues
12 associated with an easement on complainant's property
13 related to the electric transmission line. The
14 complainant requests a rehearing, citing procedural
15 defects in the Commission's order to dismiss and
16 requesting the opportunity to introduce additional
17 evidence. The complainant also requests oral
18 argument.

19 The Administrative Law Judge recommends that
20 the Commission deny the application for rehearing
21 because the Order suffers no failed defect, either
22 under the Illinois Civil Procedure Act, nor under the
23 Illinois Administrative Procedure Act, and the
24 Commission does not have the subject matter

1 jurisdiction to interpret the parties' respective
2 rights pursuant to the 1929 Easement. The
3 Administrative Law Judge also recommends that the
4 Commission deny the request for oral argument because
5 the parties have extensively briefed the issues in
6 their filings and there are no facts which
7 complainant can allege that will vest with -- the
8 Commission with subject matter jurisdiction over the
9 complainant's claims. The Commission agrees with
10 both recommendations.

11 Are there any objections to denying the
12 Petition For Rehearing and the requests for oral
13 argument?

14 (No response.)

15 CHAIRMAN ZALEWSKI: Hearing none, the
16 Petition For Rehearing and the request for oral
17 argument are denied.

18 Item O-1 concerns approval of batches,
19 contracts, and confirmations under the Illinois
20 Adjustable Block Program.

21 Any there any objections to approving the
22 Program Administrator's submissions?

23 (No response.)

24 CHAIRMAN ZALEWSKI: Hearing none, the

1 submissions are approved.

2 Item O-2 concerns approval of batches,
3 contracts, and confirmations under the Illinois Solar
4 For All Program.

5 Are there any objections to approving the
6 Program Administrator's submissions?

7 (No response.)

8 CHAIRMAN ZALEWSKI: Hearing none, the
9 submissions are approved.

10 And then item O-3 concerns the Kiefner and
11 Associates Engineering Study of Peoples Gas Cast Iron
12 and Ductile Iron Pipeline System. The report was
13 prepared pursuant to the Orders in Docket 16-0376 and
14 18-1092. We have Paul Jukes from Kiefner and
15 Associates to present the findings and
16 recommendations from the study and to answer
17 questions from Commissioners. We also have Juan
18 Santiago from Peoples Gas with us to comment on the
19 report and answer Commissioners' questions.

20 So we'll start with Kiefner and Associates.
21 Dr. Jukes, if you want to step up to the microphone,
22 you may proceed. Thank you.

23 DR. PAUL JUKES: Thank you very much,
24 Chairman, and thank you, Commissioners. Thank you

1 for allowing me to speak this afternoon.

2 My name is Paul Jukes. And I work with the
3 Kiefner and Associates organization. And I'm today
4 joined by the President and Chief Engineer Trae
5 Miller, who's joining me today.

6 The main name of the presentation is to
7 prevent -- present the findings of the 2020
8 engineering study. The project was actually
9 undertaken by a team of engineers. And we had a lot
10 of experienced engineers. Most of the people that
11 participated, the main primary contributors had
12 advanced degrees. And the accumulation of experience
13 by these people was in the order of 150 years.

14 What I'll do today is give a very high level
15 overview of the actual project and then I will jump
16 into the executive summary and the main conclusions
17 and the recommendations of this work. And then I'll
18 take questions at the end.

19 In terms of a project overview, this was an
20 independent study as directed by the ICC Docket
21 16-0376. And it predominantly looked at three main
22 themes, and we'll see most of this during the
23 presentation. That of corrosion, structural
24 analysis, and risk.

1 The main name is to use this to look at the
2 cast iron and ductile iron and to evaluate the safety
3 and the pace of replacement. This project was a
4 12-month in duration which allowed us to dig deep
5 into the technical aspects of the project, and as
6 mentioned earlier, we had eight engineers on the
7 project.

8 As well as involving distant studies, part
9 of this work was actually to go out to the streets of
10 Chicago and retrieve pipe coupon samples. I'll show
11 you some pictures of that and also some soil. As
12 well as several months of a risk analysis, we also
13 undertook a two-day risk session with 14 PGL subject
14 matter experts.

15 The slide before you just gives you a brief
16 overview of the actual project schedule and how the
17 project was laid out. As mentioned, it was a
18 one-year project which started in February and then
19 ended in December. The first part of the review was
20 to review previous studies done by previous
21 engineering companies. There was previous Zinder
22 reports undertaken in 1991, 1994, and 2002, and also
23 a Kiefner study in 2007.

24 After the initial reviews had been

1 undertaken, we then undertook evaluation of the SMP
2 and the cast iron and ductile iron system that PGL
3 had. So this looked at the amount of infantry, and
4 we looked at the level of lakes -- leaks, breaks, and
5 cracks. Next part was undertaken a couple of months,
6 the site visits. And we went out to eight site
7 locations to receive these pipe samples and soil and
8 then these were sent to our lab in Columbus where
9 we'd undertake our corrosion testing.

10 Corrosion testing, the structure analysis,
11 and the risk parts, these are the main core parts of
12 this study, and these were running parallel, went
13 over a period of several months, from about March
14 until the end of September. And then we undertook a
15 lot of risk analyses and we held this two-day risk
16 workshop.

17 Throughout the work, a number of technical
18 notes were issued and then we issued a final report
19 and draft in December, and then it was formally
20 issued in January of 2020.

21 In terms of undertaking this type of
22 engineering study, around these three main areas of
23 corrosion, structure analysis, and risk, we had to
24 develop and use a number of models. So models were

1 developed for this engineering study. On the
2 corrosion, we had to develop a coupon database. So
3 we were able to obtain 1,249 coupon data points from
4 PGL and develop a database. From this database, we
5 allowed this to predict a corrosion model, and that
6 allowed us to look at things like corrosion rate and
7 to look at the useful life and the remaining life of
8 the pipelines.

9 The second aspect was to look at the
10 structural performance of the pipe, very important to
11 look at the external loads and develop a simple beam
12 model and then a more advanced beam model, using what
13 we call finite element analysis, to look at the effect
14 of pipe/soil interaction and external loads. This
15 model allowed us to look at failure mechanisms and to
16 see the level of loading that the pipe sees.

17 The third part was to develop and use the
18 risk tools as mentioned earlier. This involved a
19 risk session with SMEs. We undertook what we called
20 a hazard assessment to look at all of the hazards
21 that affects the system. There's 154 that were
22 identified, and then that allowed us to have risk
23 models, a risk matrix, and undertake a risk
24 assessment. I'll show you the results in this

1 presentation.

2 Just to show you aspects of the corrosion,
3 just before you are some photographs of the pipe. So
4 basically we went out to the field and obtained
5 coupons. The top left-hand picture shows a
6 technician cutting out a coupon. A coupon is a 1 to
7 2 inch disc. And I believe there's a couple of these
8 discs being passed around this afternoon.

9 If you just have a look at the condition of
10 the pipe, these pipes are old. The average age is
11 over 90 years. And the pictures of the pipes before
12 you are 125 years old and also 137 years old. And
13 you can see just the corrosion and the scaling effect
14 on the outside of the pipe.

15 So coupons were actually taken from the
16 pipe, and we also sent a 2-foot section of the pipe
17 to our lab to undertake a corrosion analysis. Just
18 to show you a little bit of what a coupon looks like,
19 on the left-hand side, this is a coupon as you see
20 that's cut from the pipe. The bottom image on the
21 left shows you the coupon and plan. And then the one
22 above it is a side view. And then before we could
23 actually ascertain the level of corrosion, we have to
24 clean the specimen. So on the right-hand side, this

1 shows you the coupon after it's been cleaned due to a
2 grit of blasting. So it was very important to remove
3 the initial dead material.

4 Just to show you some of the things that we
5 would see. After the coupon has been cleaned, this
6 is a side view of the coupon, and this is very
7 important. The top layer shows you what we call
8 graphitic corrosion. And this is where iron is
9 removed from the cast iron. You're left with
10 graphite. It has very low strength. It doesn't
11 change its volume, and it's not easy to see the
12 difference between that and the mother pipe. But
13 just below it, you have the mother pipe.

14 So once the coupon has been cleaned, we know
15 the original normal thickness when the pipe was
16 installed. And then we can look at the coupon here
17 and gauge how much general and graphitic corrosion
18 has occurred. The important point I'd like to make
19 is that that graphitic corrosion you see at the top
20 actually goes a long way into the specimen. So that
21 coupon sample is cut in half, and this is where the
22 coupon is cut in half and viewed under a microscope.
23 The graphitic corrosion extends way into the cast
24 iron, and that would not be seen unless you cut the

1 specimen open. Two points to make is that this going
2 into the sample reduces the strength of the cast
3 iron. So it doesn't make it very strong. And it was
4 seen that the extent of the graphitic erosion goes up
5 to 50 percent of the wall thickness. In one
6 particular case, we noticed that it had gone into 83
7 percent of the thickness. So because of that, you
8 don't get much strength left in the -- in the pipe.

9 Moving on to the structural analysis, we
10 developed a number of tools to look at the structural
11 performance of the pipe. And once the model has been
12 created, we can actually look at external failure
13 mechanisms, such things as frost heave, support
14 washout. This is where the pipe is sitting on wood
15 supports, and due to water or degradation of the
16 wood, supports are washed away, or ground movement,
17 which is quite common in Chicago. We could also look
18 at wall thinning due to corrosion and that of thermal
19 expansion.

20 But what you see on the right-hand side is a
21 table of numbers which shows you how much the loading
22 is increased in the pipe due to these external
23 defects. And only by running the model could we see
24 that external loading has a big factor to play. The

1 image on the bottom just shows you the form and shape
2 of a pipe due to frost heave, and the rate indicates
3 a region of high stress on the pipe.

4 Once we'd done that, we then looked at a
5 risk model. So a risk model was developed to look at
6 all of the factors that go onto the actual system,
7 everything from looking at materials in welding,
8 corrosion, things like incorrect operation. So we
9 included all of the risks that would affect the
10 system.

11 Once we've done that, we could then run the
12 model of multiple tie-ins and look at what we call
13 the risk reduction. So what we have here is a graph
14 of normalized risk on the vertical axis, and on the X
15 axis, we have the date for completion of removal of
16 the pipes. What we see, as you extend the days out
17 for replacement, then you are effectively carrying
18 more risk in the system.

19 Just to show that as some numbers, here's a
20 table of the columns of year completion date, a risk
21 score, and a relative risk change. So the important
22 points to note is that if we take 2040 as the year of
23 completion and take that as zero, if we extend the
24 replacement of the pipes out to -- out to say 2070,

1 the relative risk increases by 135 percent. But if
2 we accelerate the SMP, then the risk actually
3 reduces.

4 So this is an important thing. If you
5 extend the SMP, then the pipes are deteriorating.
6 Corrosion is happening. External loads are
7 happening. And you're having to live with that risk.
8 And that's what this risk model has shown.

9 As well as running a risk model, we looked
10 at risk matrices. And this looked at all the hazards
11 in the system. So on the left-hand side, you have a
12 list of all the categories that were identified. 154
13 hazards were identified for this system as it is
14 today. And that was plotted into the matrix on the
15 left-hand side.

16 On the right-hand side, we have a risk
17 distribution once all the cast iron and ductile iron
18 pipes have been removed. And we saw a reduction of
19 at least 31 percent in risk reduction with the cast
20 iron and ductile iron pipes taken out.

21 Just moving on to what the results were
22 actually saying. We found that over 83 percent of
23 the pipes have less than 15 years of remaining life.
24 And this table here just summarizes the results. We

1 have pipe diameter from 4 inch up to 48 inch. And
2 then we have a list of the average service life of
3 these pipes. And as mentioned earlier, on average,
4 these pipes are older than 90 years. And they're at
5 the higher end of their life with some of them being
6 up to 137 years of age. The remaining life is what's
7 calculated, known corrosion, known external forces,
8 known risks. We can calculate the remaining life
9 these pipes have. And it was a surprise to see that
10 there is not much remaining life, especially for the
11 smaller diameters. The 6-inch pipe is where we have
12 most mileage. It's about 750 miles in Chicago. And
13 that has very low remaining life.

14 This is just another representation of the
15 numbers in that of a graph. On the vertical axis,
16 you have the remaining life. The rated dash line
17 indicates replacement at the end of the SMP in 2040.
18 And then on the X axis, you have each of the
19 diameters, and you can see that for the range of 4 to
20 12 inch, there is less remaining life. And as you
21 have larger pipes, such as 36 inch and 48 inch, that
22 has a little bit more life left in the system.

23 Just to show this as a pie chart, for 1,356
24 miles of cast iron and ductile iron pipes, 83 percent

1 has less than 15 years remaining life, which is a big
2 proportion. It's about 1,100 miles. And then you
3 have 13 percent that has 15 to 30 years of remaining
4 life. And then you just have 4 percent that has
5 greater than 4 percent. So that's not very much
6 mileage. About 40 miles that has 4 percent.

7 So just jumping onto the conclusions. The
8 study showed that the current 1,356 miles of cast
9 iron and ductile iron pipes, 83 percent have an
10 average remaining life of less than 15 years.

11 This is an old system. It is aging, and
12 we're at the remaining life of the cast iron pipes.
13 This aging infrastructure explains that the SMP has
14 been good in decreasing the number of total leaks
15 because we're reducing the number of miles of pipe,
16 but there has been not a noticeable reduction in what
17 we call the failure rates. The failure rates are the
18 number of failures that happen per mile, and that has
19 not seen a noticeable reduction in the last decade.
20 And that is because these pipes are old. They're
21 aging and they're undergoing these kind of external
22 loading. And cast iron is very prone to breaking
23 because it's a very brittle material. The
24 replacement rate has not been fast enough to

1 compensate for the increase in these failure rates
2 that have been observed.

3 Based on the work that's been undertaken,
4 the study recommends to replace the pipes not by
5 2040, but to accelerate the replacement by 2030,
6 which is ten years earlier because there is not much
7 remaining life left in the pipes and also by not
8 seeing this noticeable reduction in leak rates. So
9 the longer we live with these pipes, there's a
10 greater risk and more chance of leaks and breaks
11 happening.

12 This study would not recommend to
13 de-accelerate the replacement to 2045, to extend it
14 out by another five years for the reasons mentioned.
15 You carry more risk and there will be increased
16 leaks, breaks, and cracks.

17 Now, what was interesting from this
18 engineering study, graphitic corrosion was found to
19 be an important factor. It was found to be the main
20 factor. We found external effects, natural forces
21 due to permafrost and ground movement and excavation
22 damage more significant. These things cause a lot of
23 bending onto the pipes, and corrosion is just found
24 to be that extra tipping point that reduces its

1 structural strength and leads to a leak, break, or
2 crack.

3 The last slide of conclusions, the
4 engineering study showed that completion of the SMP
5 program will reduce in a significant risk reduction,
6 and that was seen by the risk models that we had run
7 and also by that of the hazard risk matrices, and the
8 risk reduction will be in the order of 31 percent and
9 that is beneficial and significant.

10 The study finally found that it advises PGL
11 to prioritize its replacement program towards the
12 smaller pipes, specifically around the 6 inch,
13 because as mentioned, you have about 67 percent of
14 the mileage consistent with 6-inch pipes. These are
15 prone to bending and to breaking. So it's
16 recommended to focus on the small diameters. And
17 that being said, that concludes the findings from the
18 2020 engineering study.

19 CHAIRMAN ZALEWSKI: Thank you, Dr. Jukes.

20 Does any Commissioners have questions?

21 COMMISSIONER BOCANEGRA: Chairman Zalewski,
22 Commissioner Bocanegra here from Chicago. I do have
23 one question for Mr. Dukes, if that's okay.

24 CHAIRMAN ZALEWSKI: Yes, please.

1 COMMISSIONER BOCANEGRA: Mr. Dukes, thank
2 you this afternoon for your presentation. You
3 somewhat answered my question there at the last
4 portion regarding prioritization. I'll expand a
5 little bit on the original question I have for you,
6 which was from an engineering perspective, how are
7 these pipeline replacement prioritized in terms of
8 higher risk infrastructure? And I know you mentioned
9 6-inch pipes are recommended to be replaced first.
10 My question then is whether the prioritization is
11 based on -- or actually rather what it's based on?
12 You highlight a number of risks, including potential
13 failure mechanism, system risks, various hazards.
14 I'm wondering if the study takes into account, you
15 know, neighborhood locations, aging, or is it just a
16 generic recommendation for replacement of 6-inch
17 pipeline?

18 DR. JUKES: Yeah. Thank you. The study
19 looked at the pipes by looking at the corrosion,
20 looking at the risks, and looking at the structural
21 analysis. And based on that, it allowed us to -- to
22 see which pipes had least remaining life and to then
23 come up with recommendations based on the pipe
24 diameter.

1 PGL has a neighborhood approach. And it
2 would then be down to them to prioritize how this
3 would fit into their neighborhood replacement
4 program. And we did not look at time planning or
5 cost estimates of what that would take. We purely
6 looked at the engineering perspective of the factors
7 that affect the remaining life of these pipes, and
8 that being corrosion, looking at structure analysis,
9 and bending, and risk as well. Did that answer your
10 question?

11 COMMISSIONER BOCANEGRA: Yes. Thank you.
12 If I could just expand on that then. So do you know
13 from an engineering perspective if -- if PG is taking
14 the neighborhood approach, did your information
15 indicate whether they are prioritizing 6 inch within
16 the neighborhood approach, or do you not know?

17 DR. JUKES: From my preliminary review, we
18 looked at the SMP. And I believe that they have a
19 scoring mechanism that allows them to rank these
20 things accordingly. It's called an MRI. So, yes,
21 they have a mechanism for prioritizing the pipe. And
22 if there is pipes that are at risk for leaks, breaks,
23 and cracks, they do have that within their mechanism
24 of dealing with this.

1 COMMISSIONER BOCANEGRA: Thank you. That's
2 all I have.

3 COMMISSIONER KIMBREL: I'm embarrassed to
4 ask, because it's probably in your report, in the
5 larger one we have. But of the 1,342 miles of
6 inventory of cast iron and ductile iron pipe that is
7 left, what percentage of that is 6 inch?

8 DR. JUKES: Yeah. It's about 67 percent.

9 COMMISSIONER KIMBREL: Oh.

10 DR. JUKES: And it's about at least 770
11 miles. So the majority is around the 6 inch, and the
12 important point to note is that because of its size,
13 if there's any external loading, it will bend the
14 pipe. And cast iron is very brittle, so it could
15 lead to breaking. And, again, this corrosion aspect
16 that is happening is kind of a tipping point as well.

17 COMMISSIONER KIMBREL: Uh-huh.

18 DR. JUKES: So -- so, yeah, so 6 inch there
19 is in terms of cast iron, about 760 miles, and it's
20 about 67 percent of the infantry is around that
21 diameter.

22 COMMISSIONER KIMBREL: Okay. Thank you.

23 CHAIRMAN ZALEWSKI: Anyone else?

24 Thank you, Dr. Jukes. That was helpful.

1 Thank you.

2 Next we'll hear from Peoples Gas,
3 Mr. Santiago, whenever -- Santiago. Excuse me.
4 Whenever you're ready.

5 MR. SANTIAGO: Thank you, Chairman and
6 Commissioners, for giving me an opportunity to appear
7 before you today.

8 My name is Juan Santiago. I am the manager
9 of engineering performance and the main point of
10 contact for the Kiefner report. I will provide a
11 short response on behalf of Peoples Gas to the
12 independent engineering report by Kiefner and
13 Associates regarding the state of the gas delivery
14 system in the City of Chicago that was ordered in
15 Docket Number 16-0376.

16 The Commission ordered an independent
17 engineering firm to conduct a comprehensive study to
18 assess the physical conditions and risks of Chicago's
19 gas delivery system. As the Commission is well
20 aware, Peoples Gas is currently executing a
21 comprehensive program, pursuant to Illinois law, to
22 improve the safety and delivery of natural gas
23 service to -- in all of Chicago's neighborhoods by
24 replacing its aging and corroding cast and ductile

1 iron gas pipe throughout our system.

2 Most of this pipe is over 100 years old and
3 is past or near the end of its life. We have been
4 upgrading our system with modern and safer equipment
5 on an accelerated basis. And we call our program the
6 System Modernization Program or SMP. Our efforts to
7 improve the safety of Chicago's gas delivery system
8 have intensified over the past decade. In 2011, the
9 federal government made replacement of old, at risk
10 pipe a priority after high profile explosions in
11 San Bruno, California and Allentown, Pennsylvania.
12 PHMSA issued a call to action that urged pipeline
13 owners and operators to conduct comprehensive
14 reviews, identify high-risk pipe, and accelerate
15 critical repair and replacement work. In 2013
16 Illinois adopted a similar policy when the General
17 Assembly passed the Natural Gas Consumer, Safety and
18 Reliability Act to ensure the accelerated replacement
19 of these aging pipes, not just in Chicago, but
20 throughout Illinois.

21 The Kiefner findings largely confirm the
22 growing challenges we face at Peoples Gas in ensuring
23 a safe and reliable gas delivery system in the City
24 of Chicago. Executing a program of this magnitude to

1 ensure safety in the third largest U.S. city is a
2 significant challenge.

3 We appreciate the ICC oversight over the SMP
4 program. In addition to the law's cost recovery
5 limits, the Commission initiated a two-year review of
6 the program in early 2016. Peoples Gas participated
7 in multiple workshops with stakeholders, including
8 the Commission staff, the Attorney General, CUB, and
9 the City of Chicago, that looked at the future of the
10 SMP program. Further, the Commission reviews each
11 year's SMP costs to ensure those costs were prudently
12 incurred. Additionally, to ensure transparency and
13 accountability, the Commission also requires
14 quarterly reports with over 40 detailed metrics,
15 measuring the program's progress, efficiency, and
16 independent auditing.

17 The Kiefner study took over a year to
18 complete. Kiefner conducted an independent analysis
19 using our data, its own site visits, and expertise in
20 risk analysis. Kiefner selected a variety of sites
21 for the taking of the coupon samples and applied its
22 more thorough sample collection process to better
23 assess material conditions. The study thoroughly
24 assessed our system, with the goal of looking at the

1 safety aspects of the replacement pace of the SMP.

2 The 2020 Engineering Study made the
3 following critical conclusions. Number one, delaying
4 the critical work of replacing aging pipes in Chicago
5 will result in increased safety risks for everybody.

6 Number two, this study concluded that over
7 80 percent of the pipes we have in our gas delivery
8 system, some that are more than a hundred years old,
9 have an average remaining life of less than 15 years,
10 confirming the urgency of our work.

11 Thirdly, the study also found that
12 completion of the SMP program would result in a
13 significant relative reduction of the risk we all
14 face. Because risk and safety are generally
15 inversely proportional, reducing the risk we all face
16 with our aging system will increase the safety of our
17 delivery network. Elimination of cast iron and
18 ductile iron in PGL's distribution system will
19 greatly reduce the effects of corrosion, damage from
20 natural forces, and risk from excavation damage.

21 The study also found that graphitic
22 corrosion in conjunction with everyday natural forces
23 such as frost heaves, support washout, ground
24 settlement, thermal expansion of the pipe, and

1 excavation damage are very significant factors in
2 cast and ductile iron pipe failure. The loss of wall
3 thickness due to corrosion creates a failure tipping
4 point when present with other natural factors which
5 collectively increase the risk of the pipe failure.

6 The study recommends that SMP be accelerated
7 to finish ten years sooner than the current pace,
8 which is between 2038 and 2042. Kiefner concludes
9 that the replacement rate has not been fast enough to
10 compensate for the increase in failure rates expected
11 for the aging system.

12 We take these recommendations seriously.
13 The safety of our customers and employees is our top
14 priority.

15 We are committed to providing safe,
16 reliable, clean, efficient energy to homes and
17 businesses in Chicago's -- in Chicago year round,
18 including through Chicago's very cold winters and
19 Polar Vortex temperatures. We feel that our
20 modernized and extensive natural gas infrastructure
21 lower greenhouse gas emissions due to reduced gas
22 leaks, and the current and projected low cost for
23 natural gas provide an overall value to our
24 customers.

1 We look forward to working with the
2 Commission in its evaluation of all the findings and
3 recommendations in the Kiefner study. Thank you.

4 CHAIRMAN ZALEWSKI: Thank you.

5 Do any of the Commissioners have any
6 questions?

7 COMMISSIONER BOCANEGRA: Sure. Commissioner
8 Bocanegra here.

9 I think I'm getting some feedback. Can you
10 guys hear me okay?

11 CHAIRMAN ZALEWSKI: We can hear you. Go
12 ahead. Thank you.

13 COMMISSIONER BOCANEGRA: Mr. Santiago, I
14 just have a couple of questions. I note that in your
15 remarks, and I'm aware that the Kiefner report was in
16 part borne through an Order issued by the Commission
17 in the 2016 case. My question for you is, can you
18 just tell me by way of background whether the report
19 itself was based in part at all through -- or borne
20 from these stakeholder workshops that you mentioned?
21 I'm not sure if that was the result in part from
22 those workshops or if that was independent.

23 MR. SANTIAGO: I'd have to refer to Koby.

24 MR. BAILEY: Commissioner, Koby Bailey.

1 The -- really the statement of work and structure of
2 the report came out of Docket 18-1092, which followed
3 up on 16-0376, which gave the outline structure.

4 COMMISSIONER BOCANEGRA: Thank you.

5 CHAIRMAN ZALEWSKI: Commissioner?

6 COMMISSIONER KIMBREL: No. Outside of
7 stating that I had every reason to be embarrassed by
8 my question, because I saw the answer on page 1 of
9 the report.

10 CHAIRMAN ZALEWSKI: I just want to confirm,
11 did this study consider costs in accelerating the
12 plan by ten years?

13 MR. SANTIAGO: So the study did have a
14 general look at costs. It was based on the
15 evaluation of the Burns & McDonnell model which was
16 previously conducted. But in essence, the Kiefner
17 report used that as the basis. In the report, it
18 shows that by delaying the program, the cost
19 definitely would go up. And then by accelerating it,
20 we would see, if I'm remembering correctly, depending
21 on how fast you accelerate, at least half of a
22 \$10 million cost savings. So there was a good point
23 of cost in there.

24 CHAIRMAN ZALEWSKI: Any other questions?

1 Thank you. Thank you for your time today.

2 We really appreciate the information. Thank you.

3 Are there any other comments or questions
4 overall?

5 (No response.)

6 CHAIRMAN ZALEWSKI: So this concludes our
7 Public Utility agenda.

8 Judge Teague-Kingsley, do we have any other
9 matters to come before the Commission today?

10 JUDGE TEAGUE-KINGSLEY: No, Madam Chairman.

11 CHAIRMAN ZALEWSKI: Thank you.

12 Do any other Commissioners have any other
13 business to discuss?

14 (No response.)

15 CHAIRMAN ZALEWSKI: Hearing none, without
16 objections, the meeting is adjourned. Thank you.
17 Have a great afternoon.

18 (Whereupon, the meeting was
19 adjourned.)

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