

BEFORE THE
GEORGIA PUBLIC SERVICE COMMISSION

In Re:)
)
Georgia Power Company's) Docket No. 56765
Fuel Cost Recovery (FCR-27))

Volume II

Hearing in Room 110
244 Washington Street
Atlanta, Georgia

Wednesday, May 6, 2026

The hearing was called to order, pursuant to Notice at 9:30 a.m.

PRESENT WERE :

JASON SHAW, Chairman
TRICIA PRIDEMORE, Commissioner - (via Zoom)
PETER HUBBARD, Commissioner
DR. ALICIA M. JOHNSON, Commissioner - (via Zoom)

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I N D E X

WITNESSES:	DIRECT	CROSS	REDIRECT	RECROSS
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GPC

MATTHEW S. BERRIGAN

ADAM DUNCAN HOUSTON

RICHARD JOHN OLSEN, JR.

LEE EVANS

Ms. Pryor	862			
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Mr. Collado		921		
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Mr. Jones		948		
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Mr. Baker		1008		
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Ms. Ariza		1010		
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EARL BERRY

Mr. Hewitson	1021		1068	
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Mr. Collado		1048		
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EXHIBITS	FOR IDENTIFICATION	IN EVIDENCE
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GPC

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

2 CHAIRMAN SHAW: All right. Good morning,
3 everyone. Welcome to the Commission this morning.

4 This is the second day of hearings on Docket
5 No. 56765, Georgia Power Company's Fuel Cost
6 Recovery FCR-27.

7 We will start by calling for appearances.
8 Georgia Public Service Commission.

9 MR. COLLADO: Chris Collado and Justin Pawluk
10 on behalf of Staff.

11 CHAIRMAN SHAW: Good morning.

12 Georgia Power Company.

13 MS. PRYOR: Good morning. Allison Pryor,
14 Steve Hewitson and Holly Ingram on behalf of
15 Georgia Power Company.

16 CHAIRMAN SHAW: Good morning.

17 Georgia Association of Manufacturers.

18 MR. JONES: Clay Jones on behalf of GAM.

19 CHAIRMAN SHAW: Good morning, Clay.

20 Georgia Interfaith Power & Light and
21 Southface Institute.

22 MR. KAMANI: Good morning. Amitav Kamani,
23 Jennifer Whitfield, and Bob Sherrier on behalf of
24 GIPL and Southface.

25 CHAIRMAN SHAW: Good morning.

1 Metropolitan Atlanta Rapid Transit Authority,
2 MARTA.

3 MR. BAKER: Good morning, Chairman. Bob
4 Baker.

5 CHAIRMAN SHAW: Resource Supply Management.
6 (No response.)

7 Sierra Club, Southern Alliance for Clean
8 Energy, and the Natural Resources Defense Counsel.

9 MS. ARIZA: Good morning. Isabella Ariza on
10 behalf of Sierra Club, SACE, and the NRDC.

11 CHAIRMAN SHAW: Good morning.
12 It looks like we're all here. We can begin.
13 Are there any housekeeping matters to take up
14 before we get started?

15 (No response.)

16 All right. We're going to start with our
17 public witnesses. I do have a sign-up sheet. So
18 if there's anyone here that wants to speak and
19 hasn't signed up, just let us know if we miss you.

20 But we're going to start. I have a short
21 list this morning. We'll start with Mr. Dan
22 Chappuis.

23 Good morning, Mr. Chappuis. How are you
24 doing? All the way from Moultrie, Georgia; right?

25 MR. CHAPPUIS: All the way from Moultrie,

1 Georgia, yes, sir.

2 CHAIRMAN SHAW: I've heard of you. I -- I
3 don't think I've ever met you. Good to --

4 MR. CHAPPUIS: We've spoken on the phone.

5 CHAIRMAN SHAW: Yeah. Good to see you.

6 MR. CHAPPUIS: Yes, sir. You, too.

7 So, good morning, Chairman Shaw and fellow
8 Commissioners. Again, my name is Dan Chappuis.
9 I'm the superintendent of the Colquitt County
10 School District in Moultrie, Georgia.

11 Every day in public education, our
12 responsibility is pretty straightforward, but very
13 important to the long-term success of our
14 community. Our job is to provide students with a
15 safe, stable, and effective environment where they
16 can learn, grow, and prepare for the future.

17 And in our district, our first pillar is to
18 provide a safe and positive learning environment.
19 Our schools must be places where children are
20 comfortable, secure and ready to learn, where
21 classrooms are bright, technology works, our
22 cafeterias function to serve meals, our buses run,
23 and especially in south Georgia, our heating and
24 air systems keep students comfortable and focused
25 regardless of the season. And all that takes

1 reliable electricity.

2 Reliable power is something that many people
3 take for granted. But in education, we can't.
4 When the lights are on, the technology is working,
5 and our schools are fully operational, our students
6 benefit. We are really very dependent on reliable
7 energy in our schools today. This gives our
8 parents peace of mind and our teachers can teach
9 and do their jobs effectively.

10 Georgia Power has helped provide that
11 reliability for our schools and community. Like
12 any family, school system or business, we also
13 understand that affordability matters. And every
14 dollar matters in education.

15 And we work very hard in our system to be
16 very responsible stewards of our taxpayer
17 resources. We keep our property taxes as low as we
18 can, being very mindful of our -- our community and
19 their budgets, but also providing enough revenue to
20 give our students the quality education they
21 deserve.

22 And that's -- part of that is why
23 predictability and stability in energy costs are so
24 critical. Georgia Power's three-year base rate
25 freeze has provided our families and communities

1 with a measure of certainty during a time when many
2 other costs have risen.

3 And as fuel costs are reviewed, we're
4 encouraged by the possibility that potentially
5 lower fuel costs and lower fuel expenses could
6 create downward pressure on customers, including
7 us, as a school system. So that balance,
8 reliability, and affordability is very important to
9 us in how we operate in our budget process.

10 We all want power to be available when we
11 need it, and especially in our schools. But we
12 also want it delivered responsibly -- responsibly
13 and as affordably as possible. Maintaining that
14 balance requires thoughtful planning. And Georgia
15 Power must be able to secure fuel, maintain
16 infrastructure, and prepare for future demand so
17 that schools like ours are never left questioning
18 whether we can fully serve our students.

19 In education, we plan ahead because our
20 children's future depends on it. Reliable energy
21 providers must also do the same. A practical fuel
22 recovery framework helps support the dependable
23 service we rely on, while also allowing the
24 benefits of lower fuel costs to be reflected when
25 possible.

1 CHAIRMAN SHAW: Don't worry about that. We
2 don't have many today.

3 MR. CHAPPUIS: From an educator's
4 perspective, reliable and affordable power helps
5 create the kind of consistent, safe, and positive
6 learning environment that our students deserve.

7 So we thank you for your time and
8 consideration today.

9 CHAIRMAN SHAW: Thank you for taking the time
10 to drive all the way up here. Because I know y'all
11 are in the homestretch with the end of school year
12 and a lot going on, I'm sure.

13 MR. CHAPPUIS: We are, yes, sir. I'm going
14 to Honors Night tonight. We've got graduation in a
15 week. And so we -- yeah, we've got -- it's a busy
16 time in the school district, but this is important.

17 CHAIRMAN SHAW: Colquitt County is sort of
18 just a good model for what, you know, rural Georgia
19 looks like. It's just -- it's a heavy
20 agricultural-based economy, a lot of great people,
21 a lot of diversity.

22 But what y'all do, you're -- it's the --
23 public education is the backbone of our -- of
24 our -- of our current and our future. And what
25 y'all are doing is a lot like what we try to do

1 here in balancing -- striking that right balance.

2 Because, like you said, you've got to have
3 the resources you need, but you don't want to
4 burden your taxpayers. Yes, but thank you for what
5 y'all do. And appreciate it again for taking the
6 time to come all the way up here.

7 MR. CHAPPUIS: Yes, sir. Thank you for the
8 opportunity.

9 CHAIRMAN SHAW: Yes, sir.

10 MR. CHAPPUIS: All right.

11 CHAIRMAN SHAW: And our next two public
12 witnesses are two that I have a lot of respect for,
13 that are probably as passionate and thoughtful as
14 any two that ever come down here.

15 And Dr. Preeti Jaggi is next. Good morning.

16 DR. JAGGI: Good morning. How are you?

17 CHAIRMAN SHAW: Good.

18 DR. JAGGI: I'd like to speak to both the
19 docket that is undergoing and then the one for next
20 week, if I can, because I'm not going to be able to
21 be here this next week.

22 Georgians are estimated to have lost at least
23 \$5 billion in economic losses during Hurricane
24 Helene. And there were priceless losses; farmers'
25 livelihoods devastated, twin one-month-old babies

1 that died in the bed with their mother during the
2 storm, and approximately 250 people that died
3 during the storm in the southeast.

4 Helene formed over record warm Gulf waters
5 that have been made 200 to 500 times more likely
6 due to the burning of fossil fuels. Georgians,
7 along with others in the southeast, paid a cost.
8 Homes flooded, restaurants closed from downed
9 wires, hospitals across the country had shortages
10 of critical saline because the Baxter plant in
11 North Carolina was devastated and they produce
12 about 60 percent of our saline. People lost their
13 homes. They relied on their insurance coverage to
14 put their -- the pieces of their lives back
15 together.

16 Georgia Power is asking you to ask everyday
17 Georgians to bail them out from these damages. I
18 think you should say no to corporate welfare. Ten
19 years ago, the PSC allowed for Atlanta Gas & Light
20 to merge with Georgia Power, making an already
21 powerful monopoly even more consolidated.

22 Now, Southern Company owns Georgia Power and
23 much of the gas infrastructure. And that is why
24 they want to keep us hooked on dirty, volatilely
25 priced, polluting gas, instead of cheaper, cleaner

1 solar that we can generate on our own properties.

2 If they felt the business decision was so
3 great to merge with the gas company, then their
4 shareholders to shoulder the cost of rising fuel
5 costs, not Georgia Power customers. You are
6 literally the only people that are able to balance
7 the greed of a giant monopoly.

8 Consumers do not have a choice in their
9 utility provider. We have been asking consistently
10 for cleaner, cheaper sources of electricity for
11 years. I have been here for years. And what we
12 get is more gas and coal.

13 Georgia Power already charges us 10 percent
14 of our rates towards an environmental compliance
15 cost for energy sources that we don't want. We are
16 asking for cleaner sources that do not require
17 these extra costs and are better for our health.

18 I really do notice that when -- in 2016, when
19 they merged Atlanta Gas & Light and Georgia Power,
20 there was a three-year rate freeze. We didn't
21 raise rates for three years.

22 And then guess what happened from 2019 to
23 last year? Massive increase in our bills. We know
24 what's happening. We're going to get a rate freeze
25 for a few years and then it's going to go right

1 back up.

2 I believe that it is time for the PSC to
3 start acting in the best interest of Georgia and
4 not as the puppets of Georgia Power. Thank you.

5 CHAIRMAN SHAW: Lisa Coronado.

6 Good morning, Ms. Lisa.

7 MS. CORONADO: Good morning. Nice to see
8 you. Nice to see you.

9 CHAIRMAN SHAW: You, too.

10 MS. CORONADO: Yesterday there was a lot of
11 talk about how the massive expansion of natural gas
12 electricity generation that Commissioners recently
13 approved -- not the new Commissioners. You voted
14 to reconsider that decision when you took your
15 seats.

16 How that massive expansion will bring
17 substantial additional costs to transport gas into
18 our state. Costs that Georgia Power does not plan
19 to require data centers to absorb, even though data
20 centers will consume nearly all of the new
21 gas-generated electricity. Instead, residential
22 ratepayers will foot the bill.

23 You know what energy source doesn't have to
24 come from out of state and doesn't have a
25 transportation cost? Solar. Georgia doesn't

1 produce natural gas, but we are one of the top ten
2 sunniest states.

3 There was also a lot of talk about Georgia
4 Power's request to increase its hedging amount to
5 provide insurance against natural gas price spikes
6 for this additional gas. Commission staff and
7 other experts have pointed to national -- natural
8 gas pricing volatility over the years. And we just
9 experienced a large rate hike due to Russia's
10 invasion of Ukraine as a reason to decrease, not
11 increase, our reliance on this fossil fuel.

12 You know what energy source doesn't have
13 these volatile pricing concerns? Solar. The sun
14 provides all its energy for free. Now, I get it.
15 Georgia Power gets a great deal when they generate
16 our electricity with more natural gas.

17 When they send money out of our state to pay
18 for gas, they send a significant portion of it into
19 the pockets of Southern Company, their parent
20 company. And they are making an enormous profit
21 due to a Commission-approved return on equity that
22 is far above industry average when they build gas
23 pipelines and those big, expensive, polluting gas
24 plants. And they don't carry any of the risks for
25 the volatile pricing of the natural gas needed to

1 run those expensive plants. The Commission has
2 allowed them to pass all those costs and risks on
3 to ratepayers.

4 But relying more on natural gas is not in the
5 best interest of Georgians. What is? Solar. More
6 solar panels on the rooftops of houses, warehouses,
7 schools, churches, hospitals, and small businesses
8 would mean less demand on the grid and extra
9 electricity sent back to the grid. It would
10 mean -- it would mean less need to build those
11 expensive gas plants.

12 More rooftop and utility-level solar would
13 mean that we would keep money in our state, not
14 sending it out of state to pay for gas. Instead,
15 supporting a thriving solar and battery
16 manufacturing and installation industry in Georgia,
17 one that would provide thousands of jobs across our
18 state.

19 And what's great, on top of all that, is that
20 solar and battery is now cheaper than gas. And
21 costs for both solar panels and batteries keep
22 going down with advancing technology. And there
23 are so many other co-benefits, including the fact
24 that solar power doesn't contribute to changing our
25 climate in ways that will cost our grandchildren

1 and children dearly. And all future generations
2 dearly.

3 But Georgia Power has fought tooth and nail
4 against Commissioners setting fair policies that
5 would support this growth in solar. And, in
6 response, the Commission has failed to set those
7 needed policies.

8 So as you are deliberating about who is going
9 to pay for the costs associated with the large
10 additional amount of gas that will be mostly used
11 to pay for data centers and how much they're going
12 to pay, know that ratepayers and voters across
13 Georgia are thinking about how we just need one
14 more Commissioner who will vote to reconsider this
15 massive, not in the best interests of Georgians,
16 but great for Georgia Power and data centers,
17 fossil fuel gas expansion.

18 Thank you.

19 CHAIRMAN SHAW: Thank you, ma'am.

20 Was there anyone else that wanted to address
21 the Commission that did not get signed up on the
22 sheet?

23 (No response.)

24 All right. Well, while the -- while
25 Georgia -- the last panel that we have is Georgia

1 Power. The rebuttal panel.

2 Oh, so that's a separate panel? It's not

3 showing up like that on mine.

4 Well, while you're preparing for your first

5 panel, which is the larger panel -- right? -- we

6 are going to take a quick break and allow IT to

7 just kind of set everything up and allow you all to

8 get your witnesses in here.

9 So we will take a five-minute break. Thank

10 y'all.

11 (A recess was held from 9:46 a.m. until 9:52 a.m.)

12 CHAIRMAN SHAW: All right. We will get --

13 continue where we left off with our first panel --

14 rebuttal panel this morning.

15 So, Ms. Pryor, go ahead and swear in your

16 panel, if you would.

17 MS. PRYOR: Thank you.

18 At this time, I'd like to call Georgia

19 Power's first panel of witnesses on rebuttal,

20 Mr. Adam Houston, Mr. Matthew Berrigan, Mr. Lee

21 Evans, and Mr. John Ohlson to the stand.

22 Gentlemen, would you please raise your right

23 hands.

24 //

25 //

1 Thereupon,

2 MATTHEW S. BERRIGAN,
3 ADAM DUNCAN HOUSTON,
4 RICHARD JOHN OHLSON, JR.,
LEE EVANS,
5 having been duly sworn, testified as follows:

6 DIRECT EXAMINATION

7 BY MS. PRYOR:

8 Q. Mr. Houston and Mr. Berrigan, you previously
9 testified in this FCR-27 docket; correct?

10 A. (Witness Houston) Yes.

11 A. (Witness Berrigan) Yes.

12 Q. Can you please remind us -- please state your
13 name, employer and your responsibilities for the record?

14 A. (Witness Houston) Yes. Adam Duncan Houston,
15 Georgia Power comptroller.

16 A. (Witness Berrigan) Matthew Berrigan, Georgia
17 Power assistant comptroller.

18 Q. Thank you.

19 And, Mr. Evans and Mr. Ohlson, you did not
20 previously testify in this docket yet; correct?

21 A. (Witness Evans) Correct.

22 Q. Mr. Evans, please state for the record your
23 full name, your employer, and your responsibilities.

24 A. (Witness Evans) Lee Evans. Director of
25 pricing and rates, Georgia Power Company.

Q. And, Mr. Ohlson, can you do the same?

1 A. (Witness Ohlson) Richard John Ohlson, Jr.,
2 Southern Company Services. Coal transportation, logistics
3 and fuel assurance management.

4 Q. Mr. Houston, on April 23rd, did you prefile
5 or cause to be prefiled 36 pages of rebuttal testimony in
6 question-and-answer format in this case?

7 A. (Witness Houston) Yes.

8 Q. Are there any changes you need to make to
9 your prefiled rebuttal testimony at this time?

10 A. (Witness Houston) No.

11 Q. If I were to ask you the same questions today
12 under oath, would your answers be the same as if given
13 here today?

14 A. (Witness Houston) Yes.

15 MS. PRYOR: Chairman Shaw, the court reporter
16 has been provided a copy of the panel's prefiled
17 rebuttal testimony. And I now ask that the
18 rebuttal testimony be copied into the record as if
19 given here today.

20 CHAIRMAN SHAW: So marked.

21 (Whereupon, the prefiled direct testimony
22 of Matthew S. Berrigan, Adam Duncan Houston,
23 Richard John Ohlson, Jr., Lee Evans, follows:)

24

25

REBUTTAL TESTIMONY OF
ADAM D. HOUSTON, MATTHEW S. BERRIGAN, LEE EVANS,
AND R. JOHN OHLSON, JR.
ON BEHALF OF GEORGIA POWER COMPANY
GEORGIA PUBLIC SERVICE COMMISSION DOCKET NO. 56765

I. INTRODUCTION

1 **Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.**

2 A. Adam D. Houston. I am the Vice President and Comptroller for Georgia Power
3 Company (“Georgia Power” or the “Company”). My business address is 241 Ralph
4 McGill Boulevard, Atlanta, Georgia 30308.

5 A. Matthew S. Berrigan. I am the Assistant Comptroller for Georgia Power. My
6 business address is 241 Ralph McGill Boulevard, Atlanta, Georgia 30308.

7 A. Lee Evans. I am the Director of Pricing and Rates for Georgia Power. My business
8 address is 241 Ralph McGill Boulevard, Atlanta, Georgia 30308.

9 A. R. John Ohlson, Jr. I am the Transportation, Logistics, and Fuel Assurance Manager
10 at Southern Company Services (“SCS”). My business address is 3535 Colonnade
11 Parkway, Birmingham, Alabama 35243.

12 **Q. MR. HOUSTON AND MR. BERRIGAN, DID YOU PRESENT DIRECT**
13 **TESTIMONY AND EXHIBITS ON BEHALF OF GEORGIA POWER IN**
14 **THIS PROCEEDING?**

15 A. Yes.

1 **Q. MR. EVANS AND MR. OHLSON, DID YOU PRESENT DIRECT**
2 **TESTIMONY AND EXHIBITS ON BEHALF OF GEORGIA POWER IN**
3 **THIS PROCEEDING?**

4 A. No.

5 **Q. MR. EVANS, PLEASE SUMMARIZE YOUR EDUCATIONAL AND**
6 **PROFESSIONAL EXPERIENCE.**

7 A. I received a Bachelor of Science degree in Financial Management from Clemson
8 University and a Master of Science degree in Finance from Georgia State
9 University. I have also served as an Adjunct Instructor of Finance for the University
10 of West Florida and am a Certified Public Accountant licensed in Georgia. I have
11 been employed for the past 19 years by Georgia Power and the Southern Company
12 system in a variety of pricing, costing, and analysis capacities. My responsibilities
13 include administering the Company's Rates, Rules, and Regulations as well as
14 overseeing the billing operations for our largest Commercial and Industrial
15 customers. I am responsible for administering the Georgia Territorial Electric
16 Service Act of 1973, as it applies to Georgia Power. Additionally, I direct the
17 Company's development and implementation of new tariffs to meet our customers'
18 current and evolving energy needs.

19 **Q. MR. EVANS, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
20 **COMMISSION?**

21 A. Yes. I testified before this Commission in Docket No. 44160, Georgia Power's
22 2022 Integrated Resource Plan ("IRP"); in Docket No. 44280, Georgia Power's
23 2022 Rate Case; in Docket No. 55378, Georgia Power's 2023 IRP Update; in
24 Docket No. 56298, Georgia Power's Certification of the 2029-2031 All-Source
25 Capacity RFP; and in Docket No. 56310, Georgia Power's Certification of
26 Supplemental Resources for 2028-2031 Capacity.

1 **Q. MR. OHLSON, PLEASE SUMMARIZE YOUR EDUCATIONAL AND**
2 **PROFESSIONAL EXPERIENCE.**

3 A. I received a Bachelor of Science in Electrical Engineering from Mississippi State
4 University in 1996 and a Master of Business Administration from Vanderbilt
5 University in 2000. I began my career at Southern Company as a System Planning
6 Engineer in 2000 and then transitioned to Long-Term Structuring Project Manager
7 in 2003. From 2006 to 2008, I represented Southern Power Company in commercial
8 transactions with wholesale customers in North Carolina and South Carolina. From
9 2008 to 2011, I served as the Enterprise Risk Management Manager for Southern
10 Company. Beginning in 2011, I led teams and supported the cost forecasting for
11 the Vogtle Units 3 and 4 in my role as Nuclear Development Financial Strategy,
12 Analysis, and Budget Manager. I transitioned to my current role of Coal and
13 Transportation Procurement Manager in 2015, where I support the development
14 and implementation of Southern Company's coal and transportation procurement
15 strategy.

16 **Q. MR. OHLSON, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
17 **COMMISSION?**

18 A. No.

19 **Q. WHAT IS THE PURPOSE OF THE PANEL'S REBUTTAL TESTIMONY?**

20 A. The purpose of our rebuttal testimony is to respond to the testimony of the Public
21 Interest Advocacy Staff ("PIA Staff"), the Georgia Association of Manufacturers
22 ("GAM"), the Natural Resources Defense Council ("NRDC"), Sierra Club, and
23 Southern Alliance for Clean Energy ("SACE"), and Georgia Interfaith Power and
24 Light and Southface Institute ("GIPL & Southface") related to Georgia Power's
25 Fuel Cost Recovery (FCR-27) Application, filed in Docket No. 56765. Our
26 testimony focuses on several key issues without attempting to address every issue
27 or recommendation raised in Staff or Intervenor testimony. However, the fact that

1 the Company may not respond to a particular position of Staff or an Intervenor
2 should not be construed as acceptance of such position.

3 **Q. HAS THE COMPANY FILED UPDATES TO THE MINIMUM FILING**
4 **REQUIREMENTS IN THIS PROCEEDING AND RESPONDED TO ALL**
5 **PIA STAFF DATA REQUESTS DUE AS OF THE DATE OF THIS FILING?**

6 A. Yes. The Company has filed Minimum Filing Requirements (“MFR”) updates for
7 the months of January and February 2026. In addition, the Company has responded
8 to all 14 data request sets, containing approximately 300 questions and 600
9 subparts, issued by PIA Staff and its consultants and due as of the date of this filing.

10 **Q. HAVE THERE BEEN ANY CORRECTIONS TO THE DIRECT**
11 **TESTIMONY OR MFRs INITIALLY FILED BY THE COMPANY?**

12 A. Yes. While there were no corrections to the Direct Testimony, the Company filed
13 revised schedules MFRH-10, MFRH-11, MFRP-6.4, and MFRP-7.2 on February
14 23, 2026, due to the change in trade secret designations as agreed to with PIA Staff.
15 The Company also made an errata filing to schedule MFRH-7.3 on March 17, 2026,
16 to correct a formula error discovered by PIA Staff.

17 **Q. HAS THE COMPANY INCLUDED UPDATES TO ITS FUEL COST**
18 **PROJECTIONS AND FCR OVER/UNDER-RECOVERY BALANCES**
19 **BASED ON LATEST ACTUAL DATA?**

20 A. Yes, the Company has incorporated the latest natural gas price forecast as of April
21 2026 in the update to the FCR-27 budget. The latest price forecast, on average, is
22 2.8% lower over the projected test period compared to the price forecast embedded
23 in the FCR-27 Budget filed on February 17, 2026. The update impacts the projected
24 fuel cost of natural gas generation for Georgia Power-owned units and power
25 purchase agreements (“PPAs”), including hedge gains and losses. The Company
26 also incorporated the impact of lower natural gas prices on projected real time
27 pricing (“RTP”) fuel revenues. It is important to note that the Company did not

1 model a redispatch of all of its generating resources as part of this update as that
2 would require significant time to update, review and verify the energy budget model
3 results.

4 In addition, the Company reflected the actualized FCR under-recovery balance as
5 of March 2026 of REDACTED, which is REDACTED higher than previously
6 anticipated in the FCR-27 Budget primarily as result of the Winter Storm Fern in
7 January 2026. The combination of the two updates results in the projected FCR-27
8 Part B balance as of May 2026 of REDACTED.

9 **Q. PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY.**

10 A. Our rebuttal testimony addresses Georgia Power's responses to certain Staff and
11 Intervenor testimony regarding: the Interim Fuel Rider ("IFR"); the strategy behind
12 the Company's coal procurement, coal inventory management, and dispatch of coal
13 units; generation unit outages and corresponding replacement power costs; the
14 Commission-approved natural gas hedging program; renewable resource
15 procurement and program cost recovery; RTP fuel credit methodology; fuel cost
16 sharing and transparency; and the treatment of nuclear Production Tax Credits
17 ("PTCs").

18 As it pertains to the IFR, we explain why the Company's requested modifications
19 to the IFR will provide greater rate stability for customers and why PIA Staff's
20 recommendation to maintain the IFR in its current form does not recognize the
21 reality of the Company's growing system. We also describe the Company's coal
22 procurement strategy, including contracting, and address unit dispatch and coal
23 purchases, as requested by PIA Staff. While the Company's economic dispatch
24 methodology is designed to minimize the total cost of serving native load across
25 the system, we also provide additional context on the various types of operational
26 limitations and constraints that impact the Company's unit commitment decisions.

27 Regarding fossil unit outages, PIA Staff recommends a disallowance of \$10.0

1 million related to two outages at Plant McDonough Combined Cycle (“CC”) Units
2 5B and 6B, which it alleges were imprudent, along with an outage at Plant McIntosh
3 Combustion Turbine (“CT”) for which there were no replacement power costs. We
4 provide additional context and information for these three events and explain how
5 the Company’s actions were reasonable before, during, and after each event.

6 As it relates to fuel hedging, our rebuttal testimony reiterates the importance of the
7 Company’s Commission-approved natural gas hedging program in response to PIA
8 Staff’s recommendation that it be terminated, or alternatively reduced. We explain
9 how customers benefit from the continuation of the hedging program, which
10 protects against volatility and provides customers with the benefits of rate and cost
11 stability. Regarding renewable procurement and program cost recovery, our
12 rebuttal testimony explains why the Commission should continue its long-standing
13 practice of allowing such costs that are not offset by participant fees to be recovered
14 through the fuel cost recovery (“FCR”) mechanism.

15 We also address PIA Staff’s testimony regarding RTP fuel credit methodology,
16 which the Company has not proposed changing, and respond to Intervenor
17 recommendations regarding fuel cost sharing mechanisms. Our rebuttal testimony
18 disputes the premise that the Company does not have any incentives to lower fuel
19 costs for its customers, and we detail several activities the Company has proactively
20 undertaken in recent years to optimize fuel costs for the benefit of customers.

21 Next, we address GAM’s recommendation to use nuclear Production Tax Credits
22 (“PTCs”) to offset fuel costs recovered through FCR-27 and explain why these are
23 appropriately a base rate component and therefore should not flow through fuel.

24 Finally, we conclude by describing the Company’s ongoing actions that provide the
25 Commission and the public with insight into the fuel costs, including the monthly
26 over- or under-recovery status of its FCR balance filings made with the
27 Commission as well as monthly operating and hedging reports.

1 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

2 A. Our rebuttal testimony is organized as follows:

- 3 • Section II discusses the IFR.
- 4 • Section III discusses the Company's coal procurement, inventory
- 5 management, and economic dispatch.
- 6 • Section IV discusses fossil unit outages and replacement power costs.
- 7 • Section V addresses the recommendations related to the Company's natural
- 8 gas hedging program.
- 9 • Section VI discusses renewable resource procurement and program cost
- 10 recovery.
- 11 • Section VII responds to recommendations pertaining to RTP methodology.
- 12 • Section VIII discusses fuel cost sharing.
- 13 • Section IX discusses nuclear PTCs.
- 14 • Section X addresses fuel cost transparency.

15 **II. INTERIM FUEL RIDER**

16 **Q. DOES THE COMPANY AGREE WITH STAFF'S RECOMMENDATION**
17 **TO MAINTAIN THE IFR AT ITS CURRENT THRESHOLD AND**
18 **VARIANCE AMOUNT?**

19 A. No. For context, the \$200 million threshold was established and approved by the
20 Commission in 2012 in the FCR-23 proceeding. The increase in the IFR threshold
21 from the current amount of \$200 million to \$300 million is more appropriate given
22 the relative size of the total fuel expenses incurred and to be incurred by the
23 Company on an aggregate basis. The higher threshold provides greater rate stability
24 for customers and allows increased capacity to absorb natural fuel price fluctuations
25 and the normal swings of over- or under-recovery balances on a monthly basis.
26 Further, the increase to a \$300 million threshold provides a more appropriate

1 balance between the frequency of the IFR trigger of potential rate adjustments and
2 mitigating significant over- or under-recovery balances in the future.

3 **Q. HOW WOULD THIS CHANGE TO THE IFR MECHANISM BE APPLIED?**

4 A. Consistent with the currently approved IFR mechanism, the \$300 million threshold
5 will be applied in either direction of over-recovery or under-recovery with the
6 current maximum percentage of +/- 40% of cumulative rate change unaltered from
7 the current approved level. The Company proposes that the timing and the filing
8 requirements remain the same. The increase in threshold will provide greater rate
9 stability for customers and will allow increased flexibility to absorb natural fuel
10 price fluctuations and normal swings of over- or under-recovery balances on a
11 monthly basis.

12 **Q. SHOULD THE COMPANY BE REQUIRED TO FILE FOR A RATE**
13 **ADJUSTMENT IN AN IFR FILING?**

14 A. No. There are numerous factors when considering whether a rate adjustment is
15 needed in an IFR filing, which include but are not limited to, the projections of fuel
16 over- or under-recovery balance, the latest fuel price forecast specifically for
17 natural gas, incremental time required to implement the rate change, and the
18 proximity of the next fuel rate case filing. Given those factors, the flexibility of
19 whether to propose a rate adjustment is an important consideration with respect to
20 rate stability for customers. As such, the Company and the Commission should
21 maintain the current optionality afforded within the IFR mechanism to implement
22 or forego a rate adjustment.

23 **Q. SHOULD THE CURRENT IFR THRESHOLD BE RETAINED TO**
24 **MAINTAIN FREQUENCY OF REPORTING FCR OVER/UNDER STATUS**
25 **AS RECOMMENDED BY GIPL AND SOUTHFACE?**

26 A. No. The Company files an update of its over/under status of the FCR balance with
27 the Commission in Docket No. 3382-U as part of its monthly reporting requirement.

1 Therefore, even without the trigger of the IFR filing, the FCR over/under status and
2 the associated details are publicly available to be tracked and reviewed on a
3 monthly basis.

4 **Q. DOES THE COMPANY AGREE WITH GIPL AND SOUTHFACE'S**
5 **RECOMMENDATION TO LOWER THE MAXIMUM IFR RATE**
6 **ADJUSTMENT WITHIN A FCR PERIOD FROM 40% TO 15%?**

7 A. No. As evidenced in the prior periods when the IFR was set at the maximum
8 percentage of 15%, the potential rate adjustment at that level may not adequately
9 result in the desired impact to bring the cumulative FCR balance to a zero position,
10 which is the primary goal of the IFR.

11 **III. COAL PROCUREMENT, INVENTORY MANAGEMENT, AND**
12 **ECONOMIC DISPATCH OF COAL UNITS**

13 **Q. PLEASE PROVIDE AN OVERVIEW OF GEORGIA POWER'S COAL**
14 **PROCUREMENT STRATEGY.**

15 A. Georgia Power's coal procurement strategy is designed to ensure reliable supply
16 for generation while meeting system fuel requirements at the lowest reasonable
17 total cost to customers. Procurement decisions are made using a disciplined
18 portfolio approach that balances: (1) reliability of supply and delivery; (2) total
19 delivered cost; (3) operational flexibility to respond to changing dispatch and burn
20 requirements; and (4) risk management to address market volatility, supplier
21 performance, and evolving environmental requirements.

22 **1. Reliability first, verified through performance history and due diligence:**
23 Suppliers are evaluated economically and through technical and financial
24 reviews; contract terms may include replacement-cost remedies and
25 performance incentives, where appropriate.

26 **2. Portfolio contracting to manage volume uncertainty:** A portion of projected
27 requirements is secured under long-term agreements to support dependable

1 supply and mitigate price volatility, with remaining needs met through spot
2 purchases and negotiated volume flexibility to adjust to changing dispatch and
3 burn requirements.

4 **3. Active price management:** Procurement maintains competitive pricing and
5 limits exposure to market volatility through regular, formal, staggered
6 solicitations. Awards are structured with competitive initial pricing, controlled
7 escalation, and staggered expirations to avoid concentrated purchasing or
8 renewal activity that could increase total delivered costs.

9 **4. Diversity of supply sources and transportation options:** Maintaining
10 optionality across producing regions and transportation routes supports
11 competition, mitigates supply disruptions, and allows the system to adapt as
12 market and regulatory conditions change.

13 **5. Environmental and regulatory risk mitigation:** Procurement terms for
14 longer-dated commitments may include environmental provisions intended to
15 preserve flexibility to respond to current and future compliance requirements
16 and to manage the risk of changing rules affecting unit operations.

17 Overall, the Company's integrated approach to coal-related procurement activities
18 is planned and executed to support dependable fuel availability and prudent cost
19 outcomes for customers under a range of market and operating conditions.

20 **Q. WHAT DOES THE COMPANY CONSIDER WHEN NEGOTIATING AND**
21 **ENTERING INTO COAL SUPPLY AND TRANSPORTATION**
22 **CONTRACTS?**

23 **A.** When negotiating coal supply and transportation contracts, the Company considers
24 multiple factors, with the objective of meeting system fuel requirements at the
25 lowest reasonable total cost while supporting safe and reliable generation. Some of
26 these key considerations include:

- Fuel reliability and diversity to ensure dependable supply under varying market, operational, and regulatory conditions;
- Total delivered cost, including commodity price, transportation, handling, and environmental compliance costs, rather than focusing solely on Free on Board (“FOB”) pricing;
- Volume and contract term flexibility, recognizing uncertainty in future dispatch, load, plant operations, and regulatory outcomes;
- Alignment between supply and transportation agreements to avoid mismatched commitments and unnecessary cost exposure; and
- Risk allocation structured to balance performance incentives, cost predictability, and protection against unbounded exposure from fuel unavailability or market volatility.

The Company evaluates these factors holistically and through competitive processes with appropriate cross-functional input to ensure procurement decisions are prudent, balanced, and consistent with Commission-approved strategies and system reliability obligations.

Q. PLEASE RESPOND TO NRDC, SIERRA CLUB, AND SACE WITNESS GOGGIN’S RECOMMENDATION THAT THE COMPANY SHOULD NOT ENTER INTO COAL SUPPLY OR TRANSPORTATION CONTRACTS THAT INCLUDE PENALTIES FOR FAILING TO MEET MINIMUM FUEL DELIVERY REQUIREMENTS.

A. Mr. Goggin’s recommendation ignores the reality that coal suppliers and transportation providers typically require minimum delivery provisions in their contracts to secure commitments. The inclusion of minimum delivery requirement provisions is industry standard. Minimum delivery requirements and related performance provisions are a risk-management mechanism designed to reduce exposure to the much larger and less controllable costs associated with fuel unavailability, including emergency procurement and higher-cost replacement

1 fuels. These provisions are not intended to compensate non-performance; they are
2 structured to allocate performance risk to the carrier that controls execution.

3 Where applied, such provisions are bounded, transparent, and paired with other
4 customer protections, including force majeure protections, performance standards,
5 and remedies for repeated failure. Eliminating minimum delivery requirements, if
6 even desirable, does not remove the underlying cost of securing transportation
7 capacity. Rather, it shifts those costs into higher base rates or fixed charges with
8 less direct correlation to performance. Accordingly, the Company's focus in
9 contracting should remain on whether the overall contract structure reasonably
10 minimizes total cost while meeting reliability obligations—not on the presence or
11 absence of minimum delivery requirements in isolation.

12 **Q. PIA STAFF TESTIFIES THAT THE COMPANY ENTERED INTO**
13 **SUPPLY CONTRACTS FOR COAL THAT WERE HIGHER THAN COAL**
14 **AVAILABLE FROM OTHER SUPPLIERS. CAN YOU ELABORATE?**

15 A. The Company continues to pursue a diversified coal procurement strategy for Plant
16 Bowen. While traditional Illinois Basin and Northern Appalachian ("NAPP")
17 coals—generally the most economic sources—are expected to comprise a
18 substantial majority of Plant Bowen's coal portfolio going forward, the Company
19 incorporates other sources in its portfolio to enhance supply diversity and
20 reliability.

21 The Company runs competitive solicitations for coal supply and uses price and non-
22 price factors, including supplier performance history, production risk,
23 transportation or rail risk, and the operational impacts of short falls, in making its
24 supplier selections. Although lower-priced tons were available from certain Illinois
25 Basin and NAPP suppliers during the relevant solicitations, increasing volumes
26 within the same region or among a small number of large suppliers would have
27 further concentrated Bowen's supply and transportation exposure. Accordingly, the
28 Company limited the higher-priced volumes to a modest share of Plant Bowen's

1 projected needs (less than 10% in the relevant years) and used those tons to mitigate
2 supplier risk within the Bowen portfolio rather than as a replacement for the core
3 Illinois Basin and NAPP supply. Including a historically reliable supplier from the
4 Central Appalachian region enhances supplier/mine diversity, adds geographic
5 diversity, avoids congestion along certain transportation corridors, and provides
6 scalable capacity that can help mitigate the operational and market impacts of
7 unplanned production issues at other mines as seen in recent years.

8 **Q. PLEASE PROVIDE AN OVERVIEW OF GEORGIA POWER'S**
9 **INVENTORY MANAGEMENT STRATEGY.**

10 The Company's coal inventory management strategy is governed by SCS' Fossil
11 Fuel Policy and is designed to ensure system reliability while optimizing supply
12 chain performance by balancing on-site inventories and planned deliveries. Coal
13 stockpiles are maintained on-site to protect against unanticipated demand changes
14 and supply disruptions caused by factors such as weather, transportation issues, or
15 production variability. Each plant operates under defined target, critical, and
16 physical inventory limits that are reviewed annually by Georgia Power and SCS.
17 SCS emphasizes steady, ratable deliveries while allowing inventories to draw down
18 during high-burn periods and rebuild during low-burn periods to better
19 accommodate changing burn requirements. To manage risk, SCS continuously
20 evaluates coal burn scenarios and projected inventory levels. When critical
21 situations are anticipated, SCS implements mitigation measures such as planned
22 burn, load curtailment, accelerated or deferred deliveries, use of off-site inventory,
23 or—subject to Georgia Power approval—coal buyouts or resales.

24 To ensure that coal supply continues to be available in the future, Southern
25 Company has entered several coal supply contracts that provide a fixed and
26 consistent delivery of coal on an on-going basis. As rail companies' ability to
27 provide service flexibility has decreased, Southern Company has transitioned to a
28 more proactive coal inventory management process to mitigate a more restrictive

1 coal supply chain and ensure reliability of fuel supply to our plants. The intent of
2 the coal inventory management program is to maintain greater flexibility with the
3 stockpile at each unit so that the unit remains responsive to both higher demand
4 periods and lower demand periods while still receiving regular shipments of coal.

5 A recent example that highlights the importance of this reliability of supply was
6 Winter Storm Fern, during which gas prices increased significantly, and Southern's
7 coal fleet was able to respond when called during this peak event due to ample
8 supply of fuel, which helped reduce overall costs to customers during a winter event
9 with extremely high gas prices.

10 **Q. PLEASE RESPOND TO ALLEGATIONS THAT THE COMPANY**
11 **DISPATCHES GENERATION UNECONOMICALLY.**

12 A. Southern Company does not dispatch generation on an uneconomic basis.
13 Generation resources are committed and dispatched based on system-wide
14 production cost considerations rather than on unit-specific incremental energy cost
15 alone. The system-side production costs are optimized considering many factors.
16 As described more fully below, certain generating units as part of the overall
17 optimization may be dispatched out of strict energy merit order when necessary to
18 comply with binding transmission facility ratings, contingency constraints, voltage
19 support requirements, reserve obligations, minimum operating levels,
20 environmental or fuel-related operating limitations, avoidance of uneconomic start-
21 up or cycling costs, or other power delivery limitations affecting the ability to
22 reliably serve load across the interconnected system. Such commitments reflect the
23 least-cost, feasible operating solution for the system as a whole and are undertaken
24 to ensure reliable service to native load customers consistent with prudent utility
25 practice.

1 **Q. WHAT FACTORS INFLUENCE UNIT COMMITMENT DECISIONS?**

2 A. Typically, generation units are dispatched in the pool to reliably meet customer
3 demand at the lowest total production cost without regard to ownership.¹ Meaning,
4 units are typically committed to serve customer load on the system based on which
5 resources are least costly to run and most economic for customers. However, other
6 factors independently, or concurrently, may impact the decision to commit a unit
7 for reasons other than strict economics to meet system needs. For example, the
8 types of operational limitations and constraints may include:

- 9 • System Reliability Requirements – Units are placed on “reliability must run” at
10 the discretion of the Reliability Coordinator, not Fleet Operations, based on the
11 Reliability Coordinator’s assessment of operational requirements to maintain
12 system reliability (e.g., voltage support, avoidance of transmission line
13 overloads, etc.)
- 14 • Environmental Limitations – Certain units may be limited based on the number
15 of hours of operation allowed in compliance with air permits or other
16 environmental restrictions.
- 17 • Minimum Uptime / Downtime Constraints – Some units have a minimum run-
18 time or down-time requirement. For example, a unit might be placed on
19 transmission must-run for one day, but not the next. If the unit has not met the
20 minimum up time or is expected to be needed again within the seven days, then
21 it may continue to operate in the interim to be available when needed next.
- 22 • Testing Requirements – Various testing requirements often require a unit to run
23 to demonstrate environmental compliance, capability, availability post outage,
24 or to confirm operational health of a unit.

¹ Production cost minimization begins with unit commitment decisions based on operating characteristics (considering items such as startup times, fuel limitations, environmental constraints, minimum on/off constraints, etc.), together with unit specific operating costs. Thereafter, and again subject to the requirements of system reliability (e.g., units needed for transmission support), system resources are operated pursuant to a traditional economic dispatch model.

1 • Real-Time Constraints – Fleet Operations may start or shutdown a unit quickly
2 to preserve system integrity and reliability in response to real time unit
3 performance or changes in load.

4 • Fuel Management – Operational limitations on fuel supply may restrict typical
5 usage or unit availability. For example, natural gas units may be held back
6 during a portion of the day to ensure that enough natural gas remains available
7 on the pipeline during the afternoon peak in the winter.

8 **Q. CAN IT STILL BE PRUDENT AND IN THE BEST INTERESTS OF**
9 **CUSTOMERS TO OPERATE A UNIT EVEN IF OUT OF STRICT**
10 **ECONOMIC ORDER?**

11 A. Yes. As described above, operational complexity, system needs, and unit
12 characteristics all must be considered in how system operators determine which
13 units are needed to run at a given time. In evaluating the various constraints that
14 may impact unit commitment, it is important to frame the decision within the
15 following context: (1) the fleet is operated as one portfolio to achieve the lowest
16 cost of operation in lieu of any constraints; (2) an operating limitation or constraint
17 is not necessarily indicative of uneconomic dispatch—a unit may be running for
18 reliability reasons, while concurrently remaining economical; and (3) at any given
19 time, a unit may be limited by a single constraint while at other times multiple
20 constraints may be occurring simultaneously.

21 **Q. PLEASE SPECIFICALLY ADDRESS NRDC, SIERRA CLUB, AND SACE**
22 **WITNESS GOGGIN’S ANALYSIS REGARDING ECONOMIC**
23 **DISPATCH.**

24 A. Mr. Goggin’s analysis compares a unit’s committed and dispatched costs to a
25 historical day-ahead lambda price and gives limited consideration to a single unit
26 operating constraint—minimum up times—within a number of constraints that
27 impact the operation of the units and the system as a whole. However, Mr. Goggin
28 does not include the minimum downtime requirements for each unit as reflected in

1 Aurora inputs for Plants Bowen and Scherer. Minimum downtimes are important
2 to consider because they reflect unit commitment risks, such as natural gas price,
3 load volatility, and other ever-changing system conditions, over a week-long time
4 period, compared to the day-ahead approach used in Mr. Goggin's analysis. That
5 longer planning horizon requires managing operational and market risk over
6 multiple days—a key consideration not reflected in Mr. Goggin's analysis.
7 Furthermore, he does not consider constraints critical to the operation of the
8 Company's generation system such as transmission reliability, and environmental
9 or fuel-related operating limitations.

10 In addition, Mr. Goggin's analysis does not account for how removing large
11 generators from the system would change overall system production costs and
12 marginal costs, nor does it account for the resulting impacts to system reserves. The
13 Company performs a production-cost optimization subject to all applicable system,
14 and unit constraints to determine which units should be online and when. The
15 marginal cost is an output of that constrained optimization—it is not an input that
16 can be held constant while selectively removing generation. Therefore, using a
17 historical day-ahead lambda, which does not assume the operation of a generating
18 resource such as Plant Bowen or Plant Scherer, to determine the impact to fuel costs
19 is inappropriate without considering the full impact of a scenario where the
20 referenced plants would not have operated. This potential outcome could create
21 additional constraints in the system and, in turn, drive up the system lambda. In
22 addition, there are operating reserve considerations that must be considered in the
23 economic dispatch of the units. A committed Plant Bowen or Plant Scherer unit
24 provides regulating, contingency and additional operating reserves to the system as
25 a benefit, which is not necessarily captured in the dispatch price.

1 **IV. FOSSIL UNIT OUTAGES AND REPLACEMENT POWER COSTS**

2 **Q. PLEASE SUMMARIZE PIA STAFF'S RECOMMENDATION**
3 **REGARDING GEORGIA POWER'S FOSSIL GENERATION UNIT**
4 **OUTAGES.**

5 A. PIA Staff recommends a disallowance of \$10.0 million related to two outages at
6 REDACTED REDACTED REDACTED during the historical period. PIA Staff also
7 suggest that an outage at REDACTED CT was imprudent, but there was no
8 replacement power cost related to the outage.

9 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
10 **OCCURRED AT REDACTED.**

11 A. On REDACTED REDACTED at REDACTED experienced a forced derate
12 following an electrical fault that resulted in an automatic unit trip of Unit REDACTED.
13 Immediately prior to the trip, on-site personnel observed indications of abnormal
14 electrical activity within the REDACTED REDACTED. The root cause was found
15 to be REDACTED REDACTED REDACTED REDACTED. An electrical arc
16 occurred in association with that equipment, which progressed to a flashover
17 condition. The installed protective systems performed as designed in response to
18 the electrical fault, isolating equipment and initiating the trip to protect the REDACTED
19 generator and associated systems. Following the trip, plant personnel focused on
20 maintaining safe operating conditions and stabilizing REDACTED and the steam
21 turbine. The incident resulted in a forced derate until corrective measures were
22 completed.

23 **Q. WAS THE OUTAGE A RESULT OF IMPRUDENT ACTIONS BY THE**
24 **COMPANY?**

25 A. No. The Company's actions were reasonable before, during, and after the derate.
26 The Company performed routine preventative maintenance on the REDACTED
27 generator during the REDACTED fall outage. As part of a preventative maintenance task,

1 approximately 90 REDACTED were removed, inspected, and reinstalled. The
2 task is considered routine work. The unit ran for approximately 69 hours before the
3 electrical fault occurred. The REDACTED were inadvertently installed in a way that
4 allowed the electrical fault to occur.

5 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
6 **OCCURRED AT REDACTED.**

7 A. On REDACTED REDACTED REDACTED experienced a forced derate after the
8 REDACTED was removed from service due to a REDACTED REDACTED
9 REDACTED. An REDACTED REDACTED prevented the automatic protective
10 trip. REDACTED was removed from service by the operator. The condition occurred
11 because a REDACTED REDACTED REDACTED change disabled REDACTED
12 REDACTED REDACTED REDACTED, preventing the normal automatic trip
13 response. After an initial inspection (including a borescope), the original equipment
14 manufacturer REDACTED advised restarting the REDACTED on REDACTED
15 REDACTED. REDACTED reported a risk of REDACTED failure, and the turbine
16 was taken out of service for repairs, including replacement of REDACTED. Work
17 was completed on REDACTED, and the unit was returned to Automatic
18 Generation Control.

19 **Q. WAS THE OUTAGE A RESULT OF IMPRUDENT ACTIONS BY THE**
20 **COMPANY?**

21 A. No. As explained below, Georgia Power acted prudently before, during, and after
22 the event. The Company has a contract with REDACTED to perform preventative and
23 corrective maintenance for the gas turbine, including support from REDACTED controls
24 personnel for the event. The Company's decisions and actions were reasonable
25 based on the information available at the time. The root cause was associated with
26 REDACTED REDACTED modifications within a complex REDACTED
27 environment, and the Company's oversight, operating practices, and corrective

1 actions were reasonable and consistent with prudent utility practice. Accordingly,
2 Staff's recommended disallowance is not warranted.

3 Following the event, Georgia Power conducted a root cause review in conjunction
4 with REDACTED and implemented corrective actions consistent with the findings. The root
5 cause of the REDACTED REDACTED was due to REDACTED REDACTED
6 REDACTED REDACTED REDACTED REDACTED REDACTED REDACTED.
7 Immediate countermeasures were taken to REDACTED REDACTED
8 REDACTED REDACTED REDACTED.

9 REDACTED REDACTED REDACTED REDACTED REDACTED REDACTED
10 REDACTED. As per routine practice, simulation testing was performed on REDACTED
11 REDACTED. In addition, REDACTED was performed on the unit during the outage.
12 After the REDACTED was performed, the REDACTED REDACTED
13 REDACTED REDACTED REDACTED REDACTED from functioning properly.
14 The design engineer assumed that REDACTED REDACTED REDACTED
15 REDACTED REDACTED REDACTED REDACTED REDACTED REDACTED
16 REDACTED REDACTED REDACTED. The Company was unaware, and could
17 not have been aware, that this process was not executed. Further, the retraining of
18 the required REDACTED REDACTED within the causal product was in reference
19 to training REDACTED employees REDACTED, and not employees of Georgia
20 Power. The existence of an REDACTED REDACTED does not correlate to Georgia
21 Power's pre-event practices or establish imprudence. These actions are intended to
22 reduce the likelihood of recurrence and reflect the Company's commitment to
23 continuous improvement. It is important to note that REDACTED provided all the
24 replacement parts and performed all necessary repairs to REDACTED at no cost to the
25 Company. In addition, REDACTED waived payment of extra work authorizations
26 associated with the planned outage. REDACTED actions far exceeded what is recoverable
27 per the long-term service agreement with Georgia Power.

1 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
2 **OCCURRED AT PLANT MCINTOSH CT UNIT 7.**

3 A. On REDACTED REDACTED REDACTED was dispatched and brought online at
4 approximately 0300 EST. At 0311 EST, while performing equipment checks during
5 start-up, one of the plant operators noticed REDACTED REDACTED
6 REDACTED, located at the top of the turbine combustor section. The operator
7 immediately used the emergency stop button (e-stop) to stop REDACTED and
8 shutdown the unit. Based on the location of the REDACTED REDACTED, which is on
9 top of the combustor, REDACTED REDACTED REDACTED REDACTED
10 REDACTED REDACTED REDACTED. Due to the hot temperature REDACTED
11 REDACTED REDACTED REDACTED REDACTED, eventually the insulation
12 ignited. The CO2 fire suppression system automatically discharged. In addition,
13 one of the outside plant operators initiated the manual discharge of the CO2 system
14 to quickly extinguish the flames. It was determined upon further inspection that a
15 REDACTED REDACTED REDACTED REDACTED at the top of the combustor
16 developed REDACTED REDACTED REDACTED. The plant has updated the
17 preventive maintenance strategy associated with the REDACTED REDACTED to
18 address potential future issues with REDACTED.

19 **Q. WAS THE OUTAGE A RESULT OF IMPRUDENT ACTIONS BY THE**
20 **COMPANY?**

21 A. No. Georgia Power acted prudently before, during, and after the event. As
22 explained in the response above, the cause of the outage was related to the REDACTED
23 REDACTED from an equipment failure, and the Company took prudent actions to remediate
24 the event. PIA Staff's allegation that the REDACTED REDACTED REDACTED led
25 to the outage and was the direct result of imprudent actions by the Company is
26 unwarranted. REDACTED REDACTED is monitored and controlled by plant personnel
27 using a distributed control system in a centralized control room for REDACTED
28 REDACTED units. This system uses REDACTED REDACTED REDACTED

1 REDACTED and respond to emergent conditions using alarm screens. In addition to
2 operating the unit from the control room, personnel perform assigned rounds in the
3 field to identify and respond to abnormalities. While the REDACTED REDACTED
4 REDACTED REDACTED REDACTED REDACTED REDACTED of the unit, they
5 do not provide a REDACTED REDACTED REDACTED and are not considered the sole
6 REDACTED to trigger an operator response. Operators are trained to perform
7 visual inspections of equipment in the field, which occurred per design with the
8 appropriate response on the morning of REDACTED.

9 **Q. WHY WERE THERE NO REPLACEMENT POWER COSTS FOR THE**
10 **REDACTED OUTAGE?**

11 A. REDACTED REDACTED had a marginal dispatch price that was greater than the
12 Associated Interchange Energy Rate (“AIER”) in all hours during the outage. As
13 such, the replacement power costs were zero since the unit was assumed to not be
14 operating for economics during the entire outage duration.

15 **Q. WERE THE COMPANY’S ACTIONS AND DECISIONS RELATED TO**
16 **THESE OUTAGES CLEARLY IMPRUDENT?**

17 A. No. Georgia Power’s actions and responses to these outages were reasonable and
18 prudent and do not evidence any repeated deficiencies or trends.

1 **Q. PIA STAFF TESTIFIES THAT THE COMPANY'S AVERAGE**
2 **GENERATION LOST PER PLANNING OUTAGE IS THE HIGHEST ON**
3 **AVERAGE SINCE FCR-20. PLEASE EXPLAIN WHY THE COMPANY'S**
4 **PLANNED OUTAGES HAVE INCREASED IN RECENT YEARS.**

5 A. PIA Staff's analysis is fundamentally flawed because it does not take into account
6 the Company's fleet optimization efforts, the varying length of planned outages,
7 and the impact of extending the life of units within our existing coal fleet on the
8 length of planned outages.

9 First, PIA Staff's analysis fails to consider the Company's fleet optimization
10 efforts, such as reducing major planned outage frequency where applicable, that
11 have benefited customers through extended operations. Through these efforts, the
12 Company has continued to take steps to extend the interval period between outages
13 in a manner that appropriately balances costs, reliability, and availability. However,
14 these extended intervals also result in increased outage duration, as more extensive
15 work is performed during the planned outages. Thus, while average MWh lost
16 generation might increase for a particular outage as a result of these efforts, such
17 metric does not capture or reflect the increased benefit to customers resulting from
18 the available MWh during the extended availability of the units.

19 Second, all planned outages are not created equal. PIA Staff's analysis rests on a
20 flawed assumption that, over time, the average lost generation per outage during
21 historic periods of varying lengths should remain at some median value. This
22 assumption simply does not reflect the realities of fleet operation or the variability
23 of planned outages. For units larger than 500 MW, the Company plans outages on
24 a cyclical basis generally over an eight-year period, based upon certain large
25 equipment maintenance cycles, with a planned outage generally occurring every
26 two years. Each outage during the eight-year cycle has a defined scope and includes
27 tasks that are dependent upon the maintenance scheduled for that outage, and
28 differing amounts of time are required to accomplish the specific scope of work

1 identified for each particular outage. Given the fact that planned outages vary based
2 upon the planned scope of work for each outage, it is unreasonable to expect that
3 the average lost generation per outage will remain constant. In addition, due to the
4 varying lengths of the FCR historic periods, there will likely be historic periods that
5 happen to encompass a higher percentage of longer and more involved planned
6 outages when compared to historic periods where planned outages happen to be
7 smaller in scope and thus shorter in duration.

8 Finally, PIA Staff's analysis also fails to account for the fact that the Company is
9 ensuring the units with recently approved extensions run reliably. Maintenance on
10 units at Plants Bowen, Yates, and Scherer was deferred as the units were scheduled
11 to cease operation at the end of 2028. After the life of the units was extended, capital
12 projects and maintenance were necessary to support unit reliability. For example,
13 Bowen Unit 2 had a planned outage in 2025 that required more extensive work
14 scope on the Air Heater and Main Turbine beyond 2028. These work scopes drove
15 the outage duration to be 108 days. The extended operation of these units has driven
16 scope to support this effort thereby extending basic outage periods and skewing any
17 attempt at averaging the duration of and lost generation during a typical outage
18 during a given period.

19 **V. NATURAL GAS HEDGING PROGRAM**

20 **Q. PLEASE PROVIDE A BRIEF BACKGROUND OF THE COMPANY'S**
21 **NATURAL GAS HEDGING PROGRAM.**

22 A. The Company has maintained a Commission-approved natural gas hedging
23 program for over two decades as part of its fuel procurement practices. The program
24 is intended to mitigate customer exposure to volatility in natural gas prices, which
25 represent a significant component of the Company's fuel costs, by fixing or capping
26 the price for a portion of the Company's projected natural gas burn.

27 The Company's hedging activities are financial in nature and utilize instruments
28 such as swaps and options, subject to parameters established through Commission

orders in prior fuel cost recovery proceedings. The objective of the hedging program is to reduce exposure to adverse natural gas price movements and improve cost stability based on information available at the time hedging decisions are made, rather than to minimize realized fuel costs in hindsight. The structure of the hedging program has evolved over time as the Commission has adjusted allowable hedge volumes, tenors, and instruments in response to changing market conditions and policy considerations. The program is administered by SCS on behalf of Georgia Power, with hedging strategies and approvals established by Company management. All hedging activity is conducted within the parameters approved by this Commission. Consistent with Commission policy, all realized hedging gains and losses flow through the fuel cost recovery mechanism.

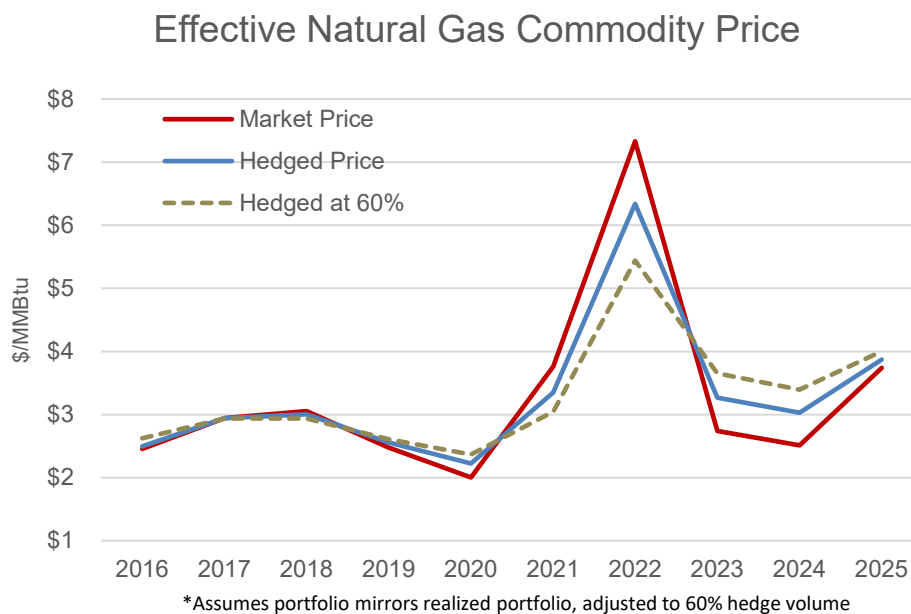
Q. PLEASE RESPOND TO PIA STAFF'S RECOMMENDATION THAT THE EXISTING NATURAL GAS HEDGING PROGRAM BE TERMINATED.

A. Georgia Power disagrees with this recommendation. The purpose of the hedging program is not to take speculative positions for gains or losses—it is to guard against volatility of natural gas prices in the market. The Company believes that rate stability for customers is an important consideration in setting regulatory policy. However, it's important to clarify the difference between rate stability and price stability as important customer protections. Rate stability refers to how often rates are changed, whereas price stability refers to whether the underlying costs upon which the rates are based are subject to volatility. The FCR over/under true-up mechanism and the adequate period between fuel cases provide *rate* stability for customers. The hedging program is the mechanism that provides *price* stability for natural gas purchases by locking in the future purchase prices today, as described further below. In combination, the Company's fixed fuel rates and the natural gas

1 hedging program protect against volatility and provide customers with the benefits
2 of rate stability and price stability, respectively.

3 **Q. DOES THE COMPANY AGREE WITH STAFF'S ALTERNATIVE**
4 **PROPOSAL TO REDUCE THE VOLUME AND HEDGING WINDOW**
5 **FROM CURRENT APPROVED LEVELS?**

6 A. No. An increase in the hedging volume is advisable at this time given the additional
7 natural gas burn projected in the test period. Likewise, an increase in the hedging
8 window to 48 months incorporates a longer-term natural gas price forecast into the
9 mix of hedges, which provides additional diversity and stability of fuel price. As an
10 illustrative example, the chart below shows the Henry Hub market price, the
11 Company's actual price incorporating the hedges, and a hypothetical natural gas
12 price assuming the hedge volume was increased to 60% as proposed by the
13 Company in this filing on a historical basis over the last ten years.



14

15 As demonstrated by the chart above, the hedging program moderates price volatility
16 by limiting exposure to extreme market movements. During periods of sharply
17 rising prices, the program reduces peak costs, while during periods of rapidly

1 declining prices, it results in higher prices than spot market outcomes. This reflects
2 the intended function of a risk mitigation strategy, not an attempt to outperform the
3 market on a realized cost basis.

4 **Q. WITH RELATIVELY LOW NATURAL GAS PRICES, WHY IS HEDGING**
5 **NATURAL GAS PRICES STILL REASONABLE?**

6 A. Even at lower prices, natural gas prices are still volatile. Natural gas prices have an
7 inherent level of volatility due to factors such as supply-demand imbalances,
8 weather, and market dynamics. Given the Company's increased reliance on natural
9 gas generation and corresponding increase in the volume of natural gas purchased,
10 smaller changes in price can have a material impact on the Company's total natural
11 gas fuel costs. For example, due to the Company's increased consumption, a \$1 per
12 MMBtu change in the price of gas today could cause a \$260 million change in cost,
13 whereas as recently as 2010, prices would have had to change over \$2 per MMBtu
14 to cause the same \$260 million change. Continuing the Company's natural gas
15 hedging program will mitigate the impact of this volatility.

16 **Q. DO THE HISTORICAL HEDGE LOSSES REFLECT INEFFECTIVENESS**
17 **OF THE HEDGES?**

18 A. No, the hedge losses and gains are a function of the natural gas prices in the market
19 compared to the hedged positions and should not be used to determine effectiveness
20 of the hedging program. As mentioned earlier, the Company does not take
21 speculative positions, and the intention of the program is to mitigate price volatility.
22 Moreover, the cumulative hedge gains or losses depend on the time period for
23 which they are measured. As seen in the table provided in PIA Staff's testimony,
24 the hedge positions over the last ten years have resulted in a cumulative gain over
25 that time period. On a long-term basis, the Company expects the hedge gains and
26 losses to largely offset as natural gas prices typically fluctuate up and down.

1 **Q. IS THERE A FUNDAMENTAL MARKET DIFFERENCE BETWEEN THE**
2 **TIME PERIODS COVERED BY THE HEDGING PROGRAM IN THE**
3 **EARLY 2000'S COMPARED TO THE LAST FIFTEEN YEARS?**

4 A. Yes. The natural gas market has fundamentally changed as result of shale gas driven
5 by hydraulic fracturing ("fracking") and horizontal drilling, which had a dramatic
6 impact on the supply of natural gas within the industry. With the abundance of
7 supply, the price pressure brought on by potential structural scarcity of natural gas
8 was no longer a prominent force driving the market. In 2008, the average NYMEX
9 prices for the following year were trading over \$12/MMBtu during certain times,
10 driven by a narrative that the country was running out of natural gas and would
11 soon be dependent on liquified natural gas ("LNG") imports to meet its needs. The
12 introduction of shale gas and fracking soon changed the natural gas outlook and
13 prices dropped precipitously. As a result, the market is operating in a much different
14 environment now given that there is no structural scarcity driving up prices. It is
15 widely believed that the United States has decades of natural gas supply available
16 at prices generally in the range of prices observed in the market today. However,
17 while long-term supply abundance has reduced structural scarcity risk, natural gas
18 prices remain subject to material volatility driven by weather-related impacts on
19 both demand and supply, infrastructure constraints, and broader market dynamics.

20 **VI. RENEWABLE RESOURCE PROCUREMENT COST RECOVERY**

21 **Q. HOW ARE RENEWABLE PROCUREMENT COSTS CURRENTLY**
22 **RECOVERED?**

23 A. As explained in our Direct Testimony, Georgia Power structures its renewable
24 procurements to collect bid and winner fees to help defray the cost of the request
25 for proposal ("RFP") process, including the cost of the Independent Evaluator, and
26 to evaluate the submissions received in the RFP. Both the fees received from the
27 RFP participants and the cost of Georgia Power's RFP administration and
28 evaluation costs flow through the FCR. Therefore, any net revenues or costs are

1 captured in the fuel balance, consistent with longstanding practice and direction
2 from the Commission. Including any net revenues or costs in the same tariff where
3 the customer benefits accrue from the low and fixed cost energy resources procured
4 through renewable RFPs is fundamental to the Company and Commission's
5 strategy to procure renewable resources and is consistent with cost causation
6 principles.

7 **Q. DOES THE COMPANY AGREE WITH STAFF'S RECOMMENDATION**
8 **TO PLACE COSTS IN EXCESS OF REVENUES ASSOCIATED WITH**
9 **GEORGIA POWER'S RENEWABLE ENERGY RFPs AND**
10 **SUBSCRIPTION PROGRAM INTO A REGULATORY ASSET TO BE**
11 **ADDRESSED IN THE NEXT BASE RATE CASE?**

12 A. No. These costs should be recovered through the FCR, consistent with current and
13 past practice and cost causation principles. For more than ten years, the
14 Commission has approved the Company's recovery of all Utility Scale and
15 Distributed Generation RFP-related costs through fuel, along with any incremental
16 renewable and nonrenewable resources costs and charges collected from customers
17 participating in the Company's renewable subscription programs.² The Company
18 proposes to continue this long-standing practice, while PIA Staff is recommending
19 a change despite offering no reasons for this departure or justification why these
20 costs should now be placed in a regulatory asset.

21 Notwithstanding the Company's request in this case, Georgia Power is actively
22 reviewing the costs of conducting its renewable RFPs and the proposed

² See *Order Adopting Stipulation*, Georgia Public Service Commission, Docket No. 44160 (July 29, 2022) at 23-25; *Order Adopting Stipulation as Amended*, Georgia Public Service Commission, Docket No. 42310 (July 29, 2019) attached Stipulation paras. 3 and 5; *Order Adopting Stipulations*, Georgia Public Service Commission, Docket No. 40161 (August 2, 2016) attached Stipulation para. 3; *Order Approving Georgia Power Company's Request to Apply the Renewable Cost Benefit Framework to Behind the Meter Solar Technologies and to Adjust the Renewable Energy Development Initiative Distributed Generation Program Schedule*, Georgia Public Service Commission, Docket Nos. 40161 and 16573 (June 7, 2017); see also *Georgia Power's Application to Apply the Renewable Cost Benefit Framework to Behind the Meter Solar Technologies and to Adjust the Renewable Energy Development Initiative Distributed Generation Program Schedule (including the BTM Joint Recommendation as Attachment 1)*, Georgia Public Service Commission, Docket Nos. 40161 and 16573 (June 1, 2017).

1 procurement fees sought from RFP Participants to minimize the potential for RFP
2 costs to exceed revenue collected, which will be presented to the Commission for
3 consideration in upcoming RFPs.

4 **Q. IS IT APPROPRIATE TO COMPARE COSTS AND BENEFITS FOR**
5 **RENEWABLE PROCUREMENTS OVER A SHORT TIME FRAME AS**
6 **STAFF DID TO SUPPORT THEIR RECOMMENDATION, WITHOUT**
7 **CONSIDERING THE LONG-TERM BENEFITS THAT ACCRUE TO**
8 **CUSTOMERS?**

9 A. No. The fundamental value proposition for renewable resources is that they require
10 significant upfront costs that are then offset by long-term low price and fixed cost
11 benefits that accrue over the life of the asset. Further, the RFP administration costs
12 and revenues are realized in blocks over time rather than on a regular cadence, as
13 evidenced by the over-recovery of \$21 million of revenues net of expenses in the
14 historical period that reduced FCR costs as compared to the projected shortfall in
15 the test period as noted in PIA Staff's testimony. Staff's characterization of
16 Renewable RFP projected period costs as "excess" is inaccurate and misplaced.

17 **VII. REAL TIME PRICING**

18 **Q. HAS THE COMPANY INTRODUCED A NEW RTP FUEL ACCOUNTING**
19 **METHODOLOGY IN THIS CASE?**

20 A. No. The Company continues to use the methodology approved by the Commission
21 in the Company's 2010 base rate case (Docket No. 31958) and in practice for the
22 last 15 years.

23 **Q. PLEASE DESCRIBE THE CURRENT RTP FUEL CREDIT**
24 **METHODOLOGY.**

25 A. RTP incremental load is priced based on marginal cost. That revenue received from
26 RTP customers is allocated partially to base and partially to fuel. The amount
27 allocated to fuel is the average marginal replacement fuel cost of all Georgia Power

1 resources operating in that hour plus Georgia Power's share of pool sales or
2 purchases and off-system sales or purchases.

3 **Q. WHY WAS THIS METHODOLOGY UPDATED IN 2010?**

4 A. The RTP fuel credit methodology was updated in 2010 to better mirror the overall
5 RTP rate and more quickly reflect changes in fuel costs incurred by the Company.
6 The revised methodology better aligns fuel revenues and expenses attributable to
7 RTP customers and limits wide swings in amounts credited to the fuel and base
8 accounts during periods of fuel price volatility.

9 **Q. ARE FIRM TRANSPORTATION OR NON-DISPATCHABLE PPA COSTS**
10 **INCLUDED IN THE RTP FUEL CREDIT CALCULATION?**

11 A. No. Firm Transportation ("FT") and non-dispatchable PPA costs have not been
12 included under the current methodology. These fixed costs are, by definition, not
13 marginal replacement fuel costs.

14 **Q. WERE FT AND NON-DISPATCHABLE PPA COSTS RECOVERED**
15 **THROUGH THE FUEL DOCKET PRIOR TO 2010?**

16 A. Yes, FT and non-dispatchable PPA costs were recorded as FCR expenses prior to
17 2010, when the current methodology was approved by the Commission, and have
18 continued to be since the implementation of the current methodology.

19 **Q. DO RTP CUSTOMERS CONTRIBUTE TO FIXED COSTS INCLUDING**
20 **FT AND NON-DISPATCHABLE PPAS?**

21 A. Yes. The RTP incremental load is assessed a marginal cost-based rate. The price
22 for RTP incremental load includes the marginal running cost of the system (lambda)
23 even though most of the kilowatt hours sold are generated by plants with a lower
24 running cost. As a result, most hours priced at RTP provide a contribution to the
25 fixed costs of the system by lambda being greater than the underlying energy costs

1 to serve them. Further, the Customer Baseline Load (“CBL”) portion of an RTP
2 customer’s load is assessed the fully embedded base and FCR rate.

3 **Q. WOULD CHANGING THE FUEL CREDIT METHODOLOGY CHANGE**
4 **THE TOTAL REVENUES RECEIVED FROM RTP CUSTOMERS OR**
5 **IMPACT TOTAL COSTS FOR OTHER CUSTOMERS?**

6 A. No. As discussed in the 2000 Rule Nisi proceeding (Docket No. 11708-U) focused
7 on RTP and Georgia Power’s 2010 base rate case proceeding, where the RTP
8 methodology was changed, a change in accounting practice would have no effect
9 on the RTP price or the resulting revenues. It would merely shift base revenue to
10 fuel to lower fuel costs, but the lost base revenue would need to be made up in
11 increased base rates of those same customers who would now have lower FCR
12 charges. This would have no lasting effect on the cost to customers.

13 **VIII. FUEL COST SHARING**

14 **Q. WHAT IS FUEL COST SHARING?**

15 A. Various intervenors suggested the Company adopt a fuel cost sharing mechanism,
16 where the Company shares in the risk of the actual fuel costs in comparison to the
17 forecasted budget on which the fuel rates are set. Based on their recommendation,
18 the Company would absorb any over or under variance of fuel costs up to a fixed
19 percentage. Any amounts over the fixed percentage amount are presumed to be
20 captured through the over/under mechanism to be addressed in the next fuel rate
21 case.

22 **Q. DOES THE COMPANY AGREE WITH NRDC, SIERRA CLUB, AND**
23 **SACE’S RECOMMENDATION TO IMPLEMENT A FUEL COST**
24 **SHARING MECHANISM?**

25 A. No. The Company does not earn a return on fuel costs and is already appropriately
26 incentivized to keep fuel costs low. Fuel costs have always been designed as a direct

1 pass-through on a dollar-for-dollar basis. Based on their proposal, the fuel costs
2 will now potentially flow through as income for the Company. Fuel costs are often
3 volatile based on market dynamics on both macro and micro-economic level, most
4 of which are outside of the Company's control. Likewise, the Company's budget
5 forecast of fuel costs largely depends on the inputs from independent sources from
6 the industry and not derived solely by Company personnel.

7 **Q. DOES THE COMPANY ACTIVELY TAKE STEPS TO LOWER FUEL**
8 **COSTS FOR CUSTOMERS?**

9 A. Yes. As a regular part of doing business, the Company seeks out opportunities to
10 lower fuel costs for customers. In addition, there have been several activities the
11 Company has proactively undertaken within its control in recent years to further
12 optimize fuel costs for customers.

13 One such example is in its process of securing fuel transportation contracts. The
14 Company has a demonstrated record of proactively negotiating coal transportation
15 contracts to reduce fuel and production costs for customers, including at rail-captive
16 generating facilities where no direct rail delivery competition exists. For REDACTED
17 REDACTED, the Company negotiated transportation contract terms with REDACTED that
18 resulted in approximately REDACTED in initial production cost savings over the
19 REDACTED, with Company projections reflecting up to an additional REDACTED
20 REDACTED in savings attributable to operational constraints and lower transportation
21 rates secured through those negotiated arrangements. Similarly, for REDACTED,
22 the Company negotiated transportation arrangements with REDACTED that
23 produced no less than REDACTED in transportation contract savings over the REDACTED
24 REDACTED period. Achieving these outcomes at rail-captive plants underscores the
25 Company's proactive and disciplined approach to managing transportation costs on
26 behalf of customers.

27 Another example is the implementation of an established, standardized heat rate
28 program by the Company that directly links plant operational discipline and

1 maintenance practices to measurable efficiency outcomes through defined Key
2 Performance Indicators (“KPIs”) and documented program tasks. Heat rate
3 performance is evaluated using a consistent fleetwide methodology that focuses on
4 controllable operational parameters and verified performance data, ensuring
5 accountability. This operational discipline is further reinforced through centralized
6 economic dispatch that commits and dispatches generating resources to minimize
7 total system production cost, subject to reliability, environmental, and operational
8 constraints. All else equal, units with better heat rate performance tend to be
9 dispatched more frequently under this framework, while less efficient units tend to
10 be utilized less. Because this framework already drives operator behavior,
11 prioritizes efficiency improvements, and oversees heat rate performance through
12 objective measurement and review rather than cost redistribution, the
13 implementation of a separate fuel cost sharing mechanism would be duplicative and
14 unnecessary.

15 Further, the Company retains natural gas storage inventory to ensure the reliability
16 of fuel supply and for balancing daily pipeline requirements. When market prices
17 are high, the Company can utilize that storage to provide additional benefit by
18 offsetting high market prices with gas from storage. The Company’s gas supply
19 strategy, which includes optimization of storage, leveraging pipeline capacity that
20 provides access to lower-priced supply, and capitalizing on gas market conditions,
21 effectively reduces natural gas costs and maximizes value for our customers.

22 As evidenced by these examples, the Company takes its responsibility of prudent
23 fuel management seriously and is consistently looking to optimize and lower fuel
24 costs for customers whenever possible. Finally, intervenors that are advocating for
25 fuel cost sharing have not provided sufficient evidence in their testimonies that the
26 Company took specific imprudent actions that resulted in increased fuel costs. The
27 current mechanism ensures that the customers only pay for the actual fuel costs
28 incurred and there is no return earned on fuel costs. As such, any additional

1 incentive to encourage the Company to lower fuel costs for customers is
2 unnecessary.

3 **Q. DO A MAJORITY OF STATES UTILIZE FUEL-COST SHARING**
4 **MECHANISMS, AS INTERVENORS RECOMMEND?**

5 A. No. As NRDC, Sierra Club, and SACE Witness Kalin indicates, there are less than
6 10 states with existing fuel-sharing policies.³

7 **IX. NUCLEAR PRODUCTION TAX CREDITS**

8 **Q. WHAT IS THE COMPANY'S CURRENT PROPOSAL FOR TREATMENT**
9 **OF NUCLEAR PRODUCTION TAX CREDITS?**

10 A. In its Storm Damage Recovery Application in Docket No. 44280, the Company
11 included 25% of 45U Production Tax Credits ("PTCs") regulatory liability
12 generated in 2024 and 2025 as an offset to the revenue requirement of storm
13 recovery costs as a benefit to customers.

14 **Q. HOW DOES THE COMPANY RESPOND TO GAM'S**
15 **RECOMMENDATION THAT NUCLEAR PTCS BE USED TO OFFSET**
16 **FUEL COSTS RECOVERED THROUGH FCR-27 RATHER THAN AS AN**
17 **OFFSET TO STORM EXPENSE?**

18 A. Income tax credits, including PTCs, have always been a base rate component. The
19 Company does not earn a return on fuel costs and, therefore, does not pay income
20 taxes on fuel costs. Given the purpose of the income tax credits are to offset the
21 Company's income tax obligation, they should rightfully be included as a base rate
22 component and included in the Storm Damage Recovery Application.

³ See Direct Testimony of Jeremy Kalin on behalf of NRDC, Sierra Club, and SACE, Docket No. 56765 (Apr. 9, 2026) at 17.

1 **X. FUEL COST TRANSPARENCY**

2 **Q. PLEASE RESPOND TO ALLEGATIONS THAT THE COMPANY IS LESS**
3 **THAN TRANSPARENT REGARDING ITS FUEL COSTS.**

4 A. Each month, under Docket No. 3382-U, the Company files an over- or under-
5 recovery status of its FCR balance with the Commission, which includes actual fuel
6 revenues and fuel costs as well as projections of the FCR recovery balance on a
7 monthly basis until the date of the next expected fuel rate case. The Company also
8 files monthly operating reports with the Commission, which provide general ledger
9 details of all financial costs, including fuel costs. In addition, the Company files
10 natural gas hedging reports monthly with transaction level details as part of the
11 monitoring process of the hedging program.

12 **Q. WOULD THE COMPANY SUPPORT A FUEL COST LINE ITEM ON**
13 **CUSTOMER BILLS?**

14 A. Interested customers can already request a detailed bill that provides an itemized
15 breakout of bill components, including fuel. As such, it is not necessary for the
16 Company to change its bill presentation.

17 **XI. CONCLUSION**

18 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

19 A. Yes.

1 MS. PRYOR: In addition, with your
2 permission, I'd like Mr. Houston to give a summary
3 of the prefiled testimony.

4 CHAIRMAN SHAW: Yeah. Mr. Houston, go ahead.

5 MR. HOUSTON: Yes. Thank you.

6 Good morning, Commissioners. We appreciate
7 the opportunity to be here again today in support
8 of Georgia Power's FCR-27 application, our rebuttal
9 testimony response to the critiques and
10 recommendations of the Commission's Public Interest
11 Advocacy staff and various intervenors.
12 Specifically, we address feedback on the company's
13 interim fuel rider, or IFR, the company's coal
14 procurement, inventory management and unit
15 commitment, fossil unit outages and replacement
16 power costs, the natural gas hedging program,
17 renewable resource RFP cost recovery, real-time
18 pricing, or RTP, fuel credit methodology, fuel cost
19 sharing, treatment of nuclear production, tax
20 credits, and, finally, fuel cost transparency.

21 First, we explain why the company's requested
22 modifications to the IFR will provide greater rate
23 stability for customers and why maintaining the IFR
24 in its current form does not recognize the reality
25 of the company's growing system. We describe the

1 company's coal procurement strategy, which is
2 rooted in maintaining a reliable supply of coal for
3 the generation fleet to ensure reliable and
4 cost-effective generation when our customers need
5 it most, and which works in tandem with our prudent
6 inventory management practices.

7 We also addressed the company's approach to
8 unit commitment. Although the company economically
9 dispatches resources on its system to minimize the
10 total cost of serving native load, there are
11 several operational limitations and constraints
12 that must be considered in the company's unit
13 commitment decisions. Regarding fossil fuel
14 outages -- regarding fossil unit outages, we
15 respond to PIA staff's recommended disallowance
16 related to the two outages at Plant McDonough
17 combined-cycle units 5-B and 6-B, which it alleges
18 were imprudent, along with the outage at Plant
19 McIntosh combustion turbine, for which there were
20 no replacement costs. We provide additional
21 context and information for each of these three
22 events and explain how the company's actions were
23 reasonable before, during, and after each event.

24 Our rebuttal testimony also reiterates the
25 purpose and importance of the Commission-approved

1 natural gas hedging program. We continue to
2 support the company's request of program
3 modifications, given the exposure of our fuel costs
4 to natural gas price market, net natural gas price
5 in the market. We explain how customers benefit
6 from continuation of the hedging program, which
7 protects against price volatility, and explain why
8 the effectiveness of the program should not be
9 simply measured by historical gains and losses.

10 As it pertains to renewable procurement and
11 program cost recovery, our rebuttal testimony
12 explains why the Commission should continue its
13 long-standing practice of allowing both the
14 revenues and expenses associated with future
15 requests for proposals, or RFPs, to be included in
16 the fuel cost recovery mechanism to align with
17 where the benefits of renewable programs are
18 recognized.

19 Next, we address PIA staff's testimony
20 regarding RTP fuel credit methodology, which the
21 company has not proposed changing, and respond to
22 intervenor recommendations regarding fuel cost
23 sharing mechanisms. We dispute the notion that the
24 company does not have an incentive to lower fuel
25 costs for its customers. And we detail several

1 activities the company has proactively undertaken
2 in recent years to optimize fuel costs for the
3 benefit of our customers.

4 We also explain why using nuclear production
5 tax credits, or PTC, to offset fuel costs recovered
6 through FCR-27 are appropriately a base rate
7 component, and, therefore, should not flow -- flow
8 through the fuel costs.

9 Finally, we conclude by describing the
10 company's ongoing actions that provide the
11 Commission and the public with sufficient insight
12 into the company's fuel costs. This includes the
13 monthly over- or under-recovery status of the FCR
14 balance filings made with this Commission, as well
15 as monthly operating and hedging reports.

16 We continue to support the company's FCR-27
17 application and requested FCR rates as modified,
18 which will result in a decrease to customer fuel
19 rates. The company's proposed changes to the IFR
20 and hedging program further support customers by
21 providing greater rate and price stability.

22 The company has currently managed its
23 generation resource fleet and the company
24 respectfully requests the Commission to approve the
25 FCR-27 application.

1 Thank you for your time and consideration.

2 MS. PRYOR: Thank you.

3 Chairman Shaw, the panel is now available for
4 questions from Commissioners, as well as
5 cross-examination.

6 CHAIRMAN SHAW: I would just ask that -- I
7 know that staff has recommended, as well as other
8 parties, to study -- further study the RTP model
9 and how the large loads affect that, particularly
10 around fuel costs.

11 I mean, does the company have a stance on
12 that or do y'all object to looking at the RTP in a
13 separate docket?

14 MR. EVANS: Commissioner, we always are happy
15 to work with Commission and staff on any issue.
16 Going into the next rate case, one of our primary
17 objectives -- going into every rate case is to
18 evaluate the effectiveness of all of our rates.

19 We're going to be doing that going into the
20 next one with or without a docket. We're always
21 happy to work with the Commission and staff and our
22 customers on any issue that -- that's emerging.

23 CHAIRMAN SHAW: Well, what's -- the reason
24 why staff is looking at this is because we are in a
25 different situation now with the amount of load

1 increase, just the overall impact, as far as costs
2 alone. And it is complicated the way you price
3 these -- these customers.

4 And particularly with the increase in -- I
5 mean, we've heard it said that 98 percent of the
6 load growth is from commercial industrial and large
7 load customers. So it is -- it is complicated. It
8 is something that I think needs to be looked at.

9 MR. EVANS: Yes. Yes, Commissioner. And we
10 are. We will. We've been continuing to look at
11 it -- right? -- and bring forward improvements as
12 we saw fit.

13 The rules and regulation changes last year
14 that this Commission approved are an example of
15 that; right?

16 That we don't wait for -- for a rate case if
17 we see something that needs to change; right?

18 We're going to continue to look at that and
19 the effectiveness of it. We can talk today about
20 how RTP was designed, how it is covering those
21 costs, how the commitments we've made show that;
22 right?

23 CHAIRMAN SHAW: Yeah. I mean, you're the
24 expert. I've always -- I've always enjoyed
25 listening -- hearing you, you know, when you're on

1 the stand. Because you -- you are knowledgeable on
2 the subject at hand. And so I know there will be
3 some good questions around that today.

4 I just wanted to start out and say that I
5 also have -- have concerns about that and look
6 forward to hearing what you -- what you say.

7 MR. EVANS: Yes, sir.

8 COMMISSIONER HUBBARD: Yeah. Let me go ahead
9 and jump in with a few questions, if I can. Let's
10 maybe just pick up right where Chairman left off
11 there on the large load customers.

12 They're on the time-of-use supplier choice
13 monthly access charge. The large load customers
14 that are 100 megawatts or larger; is that right?

15 MR. EVANS: The new ones.

16 COMMISSIONER HUBBARD: The new ones, right.

17 MR. EVANS: The new ones that have taken
18 effect under the new rules and regs approved last
19 year are on that rate; correct.

20 COMMISSIONER HUBBARD: And they're paying
21 real time pricing rates on time-of-use supplier
22 choice?

23 MR. EVANS: Yes. And be more -- a little bit
24 more specific. Because that time-of-use supplier
25 choice -- right? -- has a couple of different

1 options under it.

2 They're on what's called the monthly access
3 charge option. And what that does is, as you said
4 correctly, prices them at RTP for their energy
5 usage, and then has a customized monthly access
6 charge, a fixed charge that each of those customers
7 pay that then cover the associated -- and make a
8 contribution towards associated embedded and fixed
9 costs, in addition to what the RTP rate would be.

10 COMMISSIONER HUBBARD: Got it. Okay.

11 Normally with an RTP customer, they have to
12 have some history -- right? -- to establish a
13 customer baseline. But in this case, what -- their
14 application for electrical service, that's used
15 as -- kind of to establish that baseline; is
16 that -- is that right?

17 MR. EVANS: I would say existing customers
18 have to have that. We have offered real time
19 pricing with a customer baseline to new loads
20 locating to the state for some time now for many
21 years. That is -- like all of our real time
22 pricing offers, regardless of whether it's on the
23 monthly access charge option or the traditional RTP
24 rate with a customer baseline, all of those have to
25 still, one, cover their marginal costs, as RTP is

1 designed to do, make a contribution to embedded
2 cost -- therefore, benefiting all customers -- and
3 still pass the rate impact measure test and our
4 associated economic thresholds.

5 So regardless of the option, whether --
6 because for new customers -- right? -- that are not
7 on the rules and regs that are eligible for the
8 monthly access charge rate, they could get an RTP
9 offer and a monthly access charge offer together.
10 Those are passing the same economic thresholds.
11 One is not more advantageous to the customer than
12 the other, and one is not putting less downward
13 pressure on rates than the other.

14 COMMISSIONER HUBBARD: So they can choose
15 between RTP or monthly access charge, you're
16 saying?

17 MR. EVANS: The non-rules and regs new 100 --
18 or customers above 100 megawatts.

19 COMMISSIONER HUBBARD: Right. Well, help me
20 then understand how you're accounting for that
21 required firm transportation of fuel for these
22 gas-fired power plants that the Chairman mentioned.
23 You know, 98 percent of which at least, in terms of
24 gigawatt-hours, the accounting for in this fuel
25 cost recovery are attributed to those new large

1 load customers.

2 How are you accounting for that firm
3 transportation for fuel in the monthly access
4 charge, or the RTP, whichever they select?

5 MR. EVANS: Certainly. And just this one --
6 I heard this stat a couple of times yesterday. The
7 98 percent is for all commercial and industrial,
8 not large loads, not data centers and things like
9 that. It's for all of our load growth in the
10 commercial and industrial class.

11 Now, we know a lot of those are large loads
12 and a good portion of those large loads are data
13 centers. And so the foundation of RTP, it consists
14 of five components; right?

15 One of those components that occurs in every
16 single hour of every -- is lambda. And I heard a
17 couple of things yesterday that I'd like to adjust
18 and correct; right?

19 Lambda is the marginal operating costs of the
20 highest economic unit running on the entire system;
21 right?

22 That is higher than our embedded RTP fuel
23 rate. It always is substantially higher. Those
24 customers, hour by hour, are paying all of their
25 energy based on the most expensive economic unit

1 running; right?

2 That delta, which is -- you know, this is
3 getting into our embedded cost of service studies
4 and our rate-making treatment and things like that.
5 But that delta between that highest economic unit
6 running and our RTP fuel credit is that -- is what
7 we have historically called capital substitution.

8 It's the revenue that these customers pay to
9 reflect fixed costs, like firm transportation, like
10 additional capital costs, things like that, that
11 the company invests to result in lower fuel costs;
12 right?

13 As you know, through our resource planning
14 process, we're always looking for the most
15 economical builds and most economical generation
16 resources. Sometimes that results in additional
17 fixed costs being incurred for a lower fuel cost
18 over the operating life of that unit; right?

19 So by paying lambda, the highest operating
20 cost on the system in every single hour, that delta
21 that is above fuel for every year is then
22 established to make that contribution to things
23 like fixed costs, and like FT.

24 And to just give you an order of magnitude --
25 right? -- this is very clear in every one of our

1 cost of service studies that we filed with the
2 Commission in a rate case; right?

3 Those capital substitution costs are removed
4 from every other rate and rate class and directly
5 assigned to the RTP rate to bear. They have to
6 bear all of those costs. And to give you an order
7 of magnitude, I believe our last cost -- historic
8 cost of service study filed with the Commission was
9 2021 test year. Or historic year. Pardon me.

10 In 2021, that capital substitution amount for
11 lower loads than we're going to see was over
12 \$200 million. I believe staff's analysis of FT
13 costs that RTP should bear were \$19 million a year.
14 So we're talking an order of magnitude more of what
15 costs are recovered from RTP customers for fixed
16 costs than what the FT was historically.

17 Now, we know those costs are going to go up
18 for FT. We know the RTP load will also go up. And
19 because the RTP load will go up, that's priced on
20 lambda, that capital substitution amount that I
21 mentioned will go up proportionally, too.

22 So as those FT costs rise, so does the
23 recovery of those costs and recovered through --
24 and transparently shown in our cost of service
25 studies.

1 COMMISSIONER HUBBARD: 19 million sounds
2 awfully low for firm transportation costs, if
3 that -- I realize that was back in 2021 and the
4 last cost of service study that was done. And we
5 didn't -- we didn't have -- we haven't had a cost
6 of service study service done since that time.

7 Although, as the Chairman pointed out,
8 there's been a pretty substantial shifting in the
9 ground underneath us with respect to these
10 large-load customers.

11 So that 19 million sounds awfully low. I --
12 firm transportation costs allocated to RTP
13 customers, that's what you said?

14 MR. EVANS: So that is not our analysis. I
15 was taking that directly from staff's testimony. I
16 believe it's -- I can tell you the table, but they
17 said \$57 million a year.

18 They calculated over a three-year historic
19 period. That's \$19 million a year. I'm just
20 taking their FT allocation and comparing it to the
21 capital substitution amount in 2021 was over
22 \$200 million.

23 So the cost that we recovered from RTP
24 customers for things like FT was \$200 million in a
25 single year, compared to staff's analysis that

1 would indicate \$19 million.

2 COMMISSIONER HUBBARD: Okay. And then
3 take -- take-or-pay contracts. Can you talk to me
4 about those?

5 I just need to understand. Do those include
6 all renewables: biomass, solar, wind?

7 Is that what's included in take-or-pay
8 contracts or what do you mean by those?

9 MR. EVANS: Certainly. So, yes, it is the
10 contracts that have fixed -- that we -- that are
11 not dispatchable. We cannot dispatch them. They
12 do not come on the system economically.

13 For lack of a better word, they are
14 economically unusable in our dispatchable system --
15 right? -- because those do not vary.

16 If a kilowatt-hour comes onto the system, we
17 do not pay more. If a kilowatt-hour comes off of
18 the system because of response to RTP prices, we do
19 not pay less. They are not included and have never
20 been included in the definition of average marginal
21 replacement fuel costs, which for over 16 years has
22 set the RTP fuel credit in the fuel docket.

23 But, now, one thing to mention is that that
24 definition existed long before the accounting
25 change in 2010. That's been part of how we

1 dispatch the system. It's been talked to this
2 Commission and staff for years and years prior to
3 2010. That was a well-established process that
4 then was adopted to reflect the fuel accounting for
5 RTP, but it did not drive it.

6 COMMISSIONER HUBBARD: Okay. Let me -- just
7 a few more questions, if you don't mind.

8 MR. EVANS: Sure.

9 COMMISSIONER HUBBARD: Can you help me
10 understand? So staff also did some analysis where
11 they removed some of those large loads from a --
12 from their analysis and the dispatch and RTP rates
13 went down 5, 11 percent, something like that. I
14 also know that you're asking for an increase in the
15 interim fuel rider. And there's a carrying cost to
16 that.

17 So help me understand how you're accounting
18 for some of those additional carrying costs for the
19 increase in RTP rates and other things that are
20 being driven by these large commercial customers.
21 How you're accounting for those in -- in the
22 monthly access charge, for example, in your
23 time-of-use service supply choice.

24 MR. EVANS: Sure. So a couple of things
25 there. One, I think -- I believe their analysis,

1 which we had a -- I think in cross yesterday, we
2 had some trouble mapping exactly where that data
3 came from.

4 But I'll take it at face value because I
5 think we can understand that fuel costs go up the
6 more load you serve. That is -- that is true. We
7 are serving more load. That is true; right?

8 COMMISSIONER HUBBARD: The quantity is going
9 up, but also the -- the increase in demand is
10 driving up the price of that, as well.

11 MR. EVANS: Absolutely. The cost is going up
12 as the load goes up. That is one-half of the
13 equation. I think with every kilowatt-hour we
14 serve, whether -- regardless of who it's from, our
15 costs will go up.

16 To look at cost in isolation is irrelevant
17 without looking at the revenue associated with that
18 load; right? So, yes, the fuel rate will go up.
19 Also, the RTP fuel credit will go up. Also lambda,
20 which they pay every hour, which is above both of
21 those, will also go up.

22 The revenue will go up with this load
23 associated that drives that cost increase, just
24 like it always does for every kilowatt-hour.

25 COMMISSIONER HUBBARD: Okay. One or two more

1 questions, then. Did -- was the company able to
2 provide any kind of -- I saw a qualitative argument
3 in the rebuttal on the price stability that's
4 provided to ratepayers from the hedging program.
5 Was there any kind of quantitative analysis on that
6 hedging program?

7 Again, we talked about 17 years of losses,
8 four years of gains. I know that that's not the
9 intention, but is there any quantitative analysis
10 that you provided to support the hedging program
11 and the benefits that are provided?

12 MR. HOUSTON: I mean, I would say the
13 quantitative analysis is the results of what we've
14 seen over the last 20 years. There is a graph in
15 our rebuttal testimony that shows if prices spike,
16 having a higher hedge limit will put downward
17 pressure on the exposure to natural gas, but no
18 additional quantitative analysis.

19 COMMISSIONER HUBBARD: Okay.

20 MR. BERRIGAN: Commissioner, can I just add?

21 COMMISSIONER HUBBARD: Sure.

22 MR. BERRIGAN: The quantitative analysis
23 backward-looking is one thing. The gas hedging
24 program is not meant to be speculative. So any
25 forward-looking analysis doesn't really apply to

1 the purpose of the program; right?

2 The purpose of the gas hedging program is to
3 be consistent, disciplined -- disciplined approach
4 to providing stability, you know, for those fuel
5 prices for our customers. So anything forward
6 would be speculative and probably not tell you what
7 you need to know about the benefits of the gas
8 hedging program.

9 COMMISSIONER HUBBARD: And then maybe just
10 one -- two more questions. So there was a pretty
11 large identification of uneconomic coal dispatch to
12 the tune of 152 million over the last three years.
13 And -- now, I know that I asked about this at the
14 end of the day.

15 There wasn't any analysis provided from the
16 company, to my knowledge, about the
17 security-constrained economic dispatch that would
18 back up all of the things on page 14 of your
19 testimony: binding transmission, facility ratings,
20 contingency constraints, voltage support
21 requirements, reserve obligations, minimum
22 operating levels, all of that sort of thing.

23 My concern is that we are extending these
24 coal plants for large load customers and others for
25 at least another decade through 2038. And if we

1 are uneconomically dispatching these coal units, we
2 need to wrap our arms around that and understand
3 what plan may be in place. Because 152 million
4 over three years, if that is the right number,
5 extended out another 12 years or so, we're talking
6 about a large amount of money that may or may not
7 be prudently spent.

8 So is there a plan in place to -- I mean, we
9 don't know yet. We have someone who is saying that
10 there's uneconomic dispatch and then you're saying
11 there's not. But we don't have the data to kind of
12 substantiate that.

13 So I'm just trying to understand: Should we
14 expect more of the same of what intervenors are
15 considering to be uneconomic coal dispatch or do
16 you have any kind of attempt or plan to mitigate
17 that, if there is uneconomic coal dispatch?

18 MR. OHLSON: If I could address that. I did
19 listen yesterday. I did listen to the testimony
20 that was provided on that analysis. And my opinion
21 is that it's deeply flawed.

22 There was -- so I don't believe that it shows
23 true uneconomic dispatch. Or, really, we could
24 talk about the difference in commitment of coal
25 units and dispatch of coal units. But, yeah, I did

1 hear yesterday Mr. Hewitson talked about minimum
2 downtimes. And it was argued that the minimum
3 uptime and downtime of the units were different.

4 And, in fact, Mr. Hewitson was correct.
5 Those units do have a seven-day minimum up and
6 minimum downtime. That's a significant assumption
7 to change in a model and will absolutely drive
8 those results to be much higher, in terms of what
9 he was looking for.

10 There's other issues, as well. When you
11 remove these large loads from the analysis, since
12 the lambda changes, there's a lot of different
13 impacts that can occur that are not accounted for.
14 Having those units committed also avoids things
15 like CT startup costs and other reserve costs.

16 So I would respectfully submit that that
17 analysis was flawed and I do not believe it shows
18 economic commitment or dispatch. And I do not
19 believe that we perform economic commitment or
20 dispatch.

21 COMMISSIONER HUBBARD: But we don't -- we
22 don't -- we have to take your word for it because
23 we don't have that evidence of binding transmission
24 facility constraints and other things of that
25 nature; right?

1 MR. OHLSON: I'm sorry. Can you repeat?

2 COMMISSIONER HUBBARD: It's not a question.
3 It's more of a comment that we have to take your
4 word for it.

5 MR. OHLSON: And based on the questions and
6 the -- the topics that we've been discussing over
7 the last several months with staff, we have begun
8 to implement some recording of unit commitment, and
9 specifically coal units. It's very difficult from
10 a system perspective to tell you why anything is
11 committed at any given time. Many different units
12 with many different constraints.

13 The electrical system has, you know,
14 stability and reliability needs. And all those
15 things are considered on a daily basis. But
16 specifically to coal plants, there are, you know, a
17 finite number of commitment reasons. And we're
18 seeking to log those so we can explain them better.

19 COMMISSIONER HUBBARD: Okay. Last question.
20 So I heard -- well, is it the company's position
21 that there were zero imprudent actions taken by the
22 company that led to forced outages?

23 These last three years were 100 percent
24 prudent operations?

25 MR. BERRIGAN: Yes. Correct. I mean, yeah,

1 I know there was discussion yesterday about whether
2 or not there were -- maybe a mistake made or, you
3 know, a reason for each individual outage. But we
4 fully believe that the company was prudent in its
5 actions before, during and after each one of those
6 outages.

7 And so, yes, I mean, you know, we -- there
8 was debate on the specifics of each one of those.
9 But, yes, I mean, the company acted prudently in
10 each of those.

11 COMMISSIONER HUBBARD: Okay. Thank you.

12 CHAIRMAN SHAW: All right. Any other
13 questions?

14 (No response.)

15 All right. Georgia Public Service
16 Commission.

17 MR. COLLADO: Good morning.

18 CHAIRMAN SHAW: Good morning, Chris.

19 MR. COLLADO: Good morning, Mr. Chairman.

20 CROSS-EXAMINATION

21 BY MR. COLLADO:

22 Q. Good morning, panel.

23 A. (Witness Houston) Good morning.

24 A. (Witness Berrigan) Good morning.

25 A. (Witness Ohlson) Good morning.

1 A. (Witness Evans) Good morning.

2 Q. I want to continue this conversation we
3 started about coal, but I want to talk about procurement
4 first.

5 And, Mr. Ohlson, that's sort of your realm;
6 correct?

7 A. (Witness Ohlson) Yes.

8 Q. You work in coal procurement. Are you --
9 would you also be involved in decisions related to coal
10 dispatch?

11 A. (Witness Ohlson) Not directly.

12 Q. Not directly, okay.

13 In your rebuttal on page 12 and 13, starting
14 at line 27, you state: Accordingly, the company limited
15 the higher price volumes to a modest share of Plant
16 Bowen's projected needs, less than 10 percent of the
17 relevant years, and used those times to mitigate supplier
18 risk within Bowen portfolio, rather than as a replacement
19 for the core Illinois Basin and the NAPP supply.

20 And by higher price volumes, this was
21 discussing diversification of suppliers; correct?

22 A. (Witness Ohlson) Correct.

23 Q. Okay. Does the company have any internal
24 policies or procedures in place that limits the amount of
25 higher price volumes to a modest share?

1 A. (Witness Ohlson) If you're asking if we have
2 specific restrictions on that, no.

3 Q. Okay. Then what drives the company's
4 analysis on how much of the coal supply needs to be
5 subject to this kind of diversification?

6 A. (Witness Ohlson) Okay. So our mission is to
7 provide reliable and economic supply of fuel to our plants
8 so that our plants can provide reliable and economic
9 performance for our customers. And all of this is trying
10 to maintain reliable and economic decisions, you know, for
11 the customers, which are in the center of what we do.

12 Part of that reliability is diversification
13 amongst coal producers. So this is specific to Plant
14 Bowen. And specific to Plant Bowen, we buy from basins on
15 the eastern side of the United States, like the two
16 basins, two of which have proven recently to be lower
17 cost, and the third has separated itself with a little
18 higher cost.

19 All three are important to us for geographic
20 diversity when it comes to our supply chain. So this is
21 where we try to keep trains moving, avoid transportation
22 congestion that can occur at the load-outs at the mines.
23 It can occur from other natural issues, flooding, whatnot
24 that can occur along the lines of the haul. And it can
25 also occur from producers having issues at their mines.

1 So having a geographic diverse supply is
2 important to us. That is part of our reliability column.
3 But also on the economic side, we do recognize that this
4 particular basin has separated itself with higher cost.
5 And that's why it was limited to 10 percent.

6 So I would say that -- to your question about
7 how we do that, it's through prudent judgment to maintain
8 reliability, but also provide the coal supply at a
9 reliable -- on a reliable basis at the least reasonable
10 cost.

11 If I could point out, too, the -- the number,
12 in terms of the volume that was included for that
13 diversity purchase, is not indicative of the additional
14 cost that it made; right?

15 So -- so when you look at the -- you call it
16 a premium that we paid for that 10 percent component, when
17 spread across the portfolio, that number is much less than
18 the volume percentage.

19 Q. But the 10 percent isn't a limit. That's
20 just how much it was used in a specific case; correct?

21 A. (Witness Ohlson) In this specific case, that
22 was our prudent judgment limited to -- it's actually, I
23 think, 9 percent, but we can say 10.

24 Q. Would the company be willing to establish a
25 policy that limits the amount of higher-priced contracts

1 that it enters into so that transparent policy could be
2 implemented?

3 A. (Witness Ohlson) So I think that we would be
4 willing, as we said before, to work with the Commission on
5 anything, in terms of having some framework and
6 guidelines. I would say that my hesitation on putting
7 hard numbers to that is that we don't know what the
8 markets will look like in the future.

9 And so putting bounded percentages or costs
10 on that could preclude us from prudent decision-making in
11 the future. A discussion on a framework or a guideline
12 would be -- we would be acceptable to that.

13 Q. And moving further down the page, on page 13,
14 line 26, you state: As rail companies' ability to provide
15 service flexibility has decreased, Southern Company has
16 transitioned to a more proactive coal inventory management
17 process to mitigate a more restrictive coal supply chain
18 and ensure reliability of our fuel supply to our plants.

19 Could you explain how the rail companies'
20 ability to provide service flexibility has decreased?

21 A. (Witness Ohlson) Yes. So if we could go back
22 to 2011, FCR-22, that's when the current inventory targets
23 were established for our coal plants, the 40 to 50 days.
24 At that time, the amount of coal generation, the capacity
25 factors of coal units was -- was much greater. And,

1 therefore, the -- we had a lot more producers to buy from
2 and the railroads allocated a lot more resources to the
3 coal industry. So that means they had a lot more
4 locomotives, a lot more crews hired on the coal lines to
5 haul.

6 Since 2011, we have seen a structural decline
7 in the coal industry; right? A lot of unit retirements
8 and across the board in the industry we're seeing about
9 70 percent reduction from that period of time into what
10 the current coal industry looks like today. And Southern
11 Company and Georgia Power is no different.

12 So, as such, the producers have rationalized
13 their industry; right? There are far fewer producers for
14 us to buy from. And the railroads have also rationalized
15 their business. So fewer locomotives allocated to the
16 coal or coal business, fewer crews hired and trained along
17 these lines of haul. And so what that does is it reduces
18 the flexibility that the supply chain has to meet our coal
19 plants' needs.

20 So back at that time, the design was -- the
21 units basically, quote, ran from the trestle, which means
22 they were expecting trains to show up and support
23 real-time operations. The railroads and the supply chain
24 can no longer provide that service. And so we've had to
25 adapt to that. So that's what I mean by the lack of

1 flexibility in the supply chain.

2 Q. Okay. Now, linking your explanation there to
3 the company's new coal inventory management process, has
4 this decreased flexibility increased the need to increase
5 coal inventories at the plant?

6 A. (Witness Ohlson) So at times the answer is
7 yes. At times it's the opposite. So in order for us to
8 manage coal plant operations -- right? -- so coal plant
9 operations are based on coal costs versus the kind of need
10 for the plants at the time through whatever the load
11 forecast or -- or the current load or natural gas prices
12 are at that time.

13 So while the coal that's purchased, it's
14 delivered fuel cost is -- is pretty consistent. We know
15 what that's going to be. We're operating in a much more
16 uncertain world, in terms of what the -- how often the
17 coal plants will be called based on load fluctuations,
18 natural gas volatility.

19 So given this more rigid supply chain, and on
20 the other side, this more -- this need for flexibility of
21 coal plant operations, we have had to use the pile as a
22 bit of a flex point between those two. And so what that
23 means is that we have a steady state of coal arriving at
24 the plant through our transportation partners and coal
25 producers. And we -- in times when the plant is not

1 called on operations, we are stockpiling that coal and
2 sometimes building it above target.

3 The flip side is that when we have periods of
4 high burn -- and we've seen those just prior to this test
5 period and when the supply chain was not keeping up with
6 the coal burn, we were supplementing that from the pile.
7 And actually inventories drew down below the target.

8 So I would say that the rigidity in the
9 supply chain has caused us at times to be above our
10 targets. At times it can cause us to be below. And
11 that's why the targets are always a long-term goal for us
12 to -- to see, to move back to.

13 Q. If the company needs to maintain larger
14 inventory levels because of this need for flexibility with
15 inventory, will the company request a change to the target
16 inventory levels from the Commission?

17 A. (Witness Ohlson) We are not currently
18 suggesting a change to the target inventory levels. It
19 has been common practice -- I think as long as I've been
20 associated with it, for us to use the pile to build up
21 before a summer peak season or a -- or a winter peak
22 season in order to make sure that the plant is well
23 supplied and can provide reliable service to our
24 customers. So a little extra protection against supply
25 chain disruptions.

1 That's been a standing practice. So we've
2 tried to move a little high in the range or even above
3 before those peak seasons. And then we anticipate that
4 coming out of those seasons we may be a little below. And
5 then we'll use the shoulder periods to build back up.

6 Again, I would say that at times we are --
7 when we are above target, it's because we're doing --
8 we're managing that supply chain in the interest of our
9 customers and allowing them to choose cheaper generation
10 options that are available at the time. And we'll
11 stockpile that coal and hopefully wait until we're called
12 upon to run those units.

13 Q. I want to switch over to staff's testimony on
14 page 25 and 26. Is everyone there?

15 Okay. On page 26, line 13, staff states that
16 the company standard operating procedures to commit and
17 dispatch the lowest cost -- lowest-cost generation
18 available, subject to identifiable constraints.

19 Mr. Ohlson, would you agree with that
20 statement? Or anyone on the panel, sorry. I understand
21 this is kind of moving to a different situation.

22 A. (Witness Ohlson) With the heavy emphasis on
23 subject to identifiable constraints. So economics is
24 clearly part of our goals. However, reliability and
25 system constraints and unit constraints present real

1 physical challenges that sometimes, you know, looking at a
2 strict energy merit order or, you know, if you were just
3 to look at the dispatch cost of a plant, that doesn't tell
4 the whole story in any way.

5 Q. Sure. And with regards to those constraints,
6 you guys have mentioned other -- you guys have mentioned
7 other factors that come, which mean -- you guys have
8 mentioned other factors that come into play, including
9 reliability, production costs, coal supply availability,
10 and coal inventories; correct?

11 A. (Witness Ohlson) I'm sorry. I had a little
12 trouble hearing that question.

13 Q. Yes. Sorry.

14 And among the constraints that the company
15 has identified in some of its data request responses,
16 they've mentioned reliability, production costs, coal
17 supply availability and coal inventories. Would you agree
18 with that?

19 A. (Witness Ohlson) Can you repeat the four
20 again?

21 Q. Reliability, production costs, coal supply
22 availability and coal inventories.

23 A. (Witness Ohlson) And this was -- those are
24 not all of the --

25 Q. No. No, no. This wasn't supposed to be an

1 exhaustive list.

2 A. (Witness Ohlson) Okay.

3 Q. These are just ones that are mentioned. I'm
4 just trying to kind of identify some of these constraints
5 that you mentioned.

6 A. (Witness Ohlson) I would agree that those are
7 some of the constraints.

8 Q. Sure. Okay. So if a unit's coal inventory
9 was running significantly above target, could that be a
10 reason under Georgia Power's own procedures to dispatch
11 that unit in order to draw the inventory down?

12 A. (Witness Ohlson) So, yes. Coal inventory
13 management at times can include the curtailment of a coal
14 unit when coal is scarce and we are holding the unit back
15 in order for higher periods of -- of need. And it can
16 also include periods of high inventory where we need to
17 lessen the pile and -- for safety reasons and physical
18 constraints at the plant, yes.

19 Q. Okay. And in those moments when that type of
20 decision needs to be made, the company is sort of forced
21 to move off of the lowest cost generation available, just,
22 you know, factor it into one of these other constraining
23 factors; correct?

24 A. (Witness Ohlson) Again, I think that question
25 is misleading because you're comparing it to almost a

1 false choice. So we have made prudent decisions on the
2 coal purchases, prudent decisions on the delivery schedule
3 for those -- delivery schedules of those purchases.

4 And then that is all based on forecasts
5 and -- of load and natural gas prices and -- and coal
6 plant operations. So once those commitments are made,
7 so -- to ensure that we have a reliable supply at a
8 reasonable low cost for our customers -- once that plan is
9 in place over the coming months or years, forecasts --
10 those forecasts can change and we have to manage those
11 commitments.

12 Those commitments are still, in my view, very
13 economic overall because it makes sure that our plants are
14 reliable for those higher-cost needs when called upon. So
15 if there's some, you know, small periods of time when we
16 manage the coal inventory pile, that is the economic
17 decision for the constraints that we see at that time.
18 And it's all meant to ensure that the plant stays as a
19 reliable source for our customers.

20 Q. So shifting our focus back to page 25, there
21 is a graph in the trade secret version of staff's
22 testimony, Figure 3.

23 A. Yes.

24 Q. Okay. And without getting into the actual
25 numbers, do you see how the inventory of specifically

1 Plant Scherer specifically relate to the target inventory
2 as -- as shown in that graph?

3 A. (Witness Ohlson) I do.

4 Q. Okay. Given the target versus actual in
5 those plant's coal inventories, is it likely that Plant
6 Scherer was dispatched because inventory was too high?

7 A. (Witness Ohlson) I do not think you can draw
8 that conclusion from this chart.

9 Q. When a plant's inventory is above the target,
10 does Georgia Power have an incentive to dispatch the unit
11 more, even if it's not the cheapest unit available, in
12 order to bring that inventory back down?

13 This is sort of what you said before in your
14 previous answer; correct?

15 A. (Witness Ohlson) That is -- that is not based
16 on the target phase. We do not invoke any coal inventory
17 management in order to arbitrarily get to a target, no.

18 Q. Going to change gears to talk about outages,
19 moving back to your rebuttal testimony on page 18. And
20 also, this was also -- there's some redactions in this
21 section of your testimony. A lot more than the redactions
22 in the nuclear testimony. Is there a reason for that?

23 I'm just curious. It's okay. You don't have
24 to answer that question. I was just --

25 On page 18, line 14, there's a discussion

1 about McDonough 5-B outage on November 25th, 2023, talking
2 about the root cause factor for that.

3 Panel, do you see that section?

4 A. (Witness Berrigan) Yes.

5 Q. Okay. On page 19, line 3, paraphrasing, the
6 redacted or invert- -- inadvertently installed in a way
7 that allowed the electrical fault to cure -- to occur.

8 With that statement, isn't the company saying
9 here that there was a mistake that led to the outage?

10 A. (Witness Berrigan) Yes. And I think as we --
11 it was discussed earlier -- right? -- the definition and
12 as we think about prudence -- a prudent decision or what
13 was clearly imprudent, we're acknowledging that a mistake
14 was made; right?

15 That the company and that the employee didn't
16 act to a level of perfection in this case. But, you know,
17 thinking about prudent and the training of that employee,
18 the work that was performed before, during and after that
19 outage -- right? -- it's an isolated incident, there's no
20 history, this isn't an overly complicated task that was
21 performed, and, yes, there was a mistake made.

22 But the company has provided training. The
23 company has ensured that everything was corrected as a
24 result of this. And so, from a prudence perspective, we
25 believe that the company was prudent related to this

1 outage.

2 A. (Witness Houston) Yeah. And I would also
3 say that the protective systems operated in this case. So
4 it's a -- it's a whole cascading level of work and
5 protections that are put in place.

6 So as Mr. Berrigan pointed out, this was
7 routine maintenance. The unit tripped offline based on
8 the protective systems. And we have no history of issues
9 as it relates to this type of work.

10 So you put all those things together between,
11 leading up to this, what happened at the time, the quick
12 response, and then the -- the analysis that was done
13 afterwards. And we believe that this was prudent.

14 Q. You mentioned the mistake made by the worker.
15 Would you also agree that maybe there's other mistakes
16 that weren't -- that were from other people, including
17 maybe the foreman or the supervisor who did not check the
18 work of the installation on this part?

19 A. (Witness Berrigan) And, again, I don't -- I'm
20 not sure what kind of work was performed outside of the
21 one employee. Again, we're saying there was a mistake
22 made by this employee. And, again, isolated incident and
23 all the things that Mr. Houston mentioned.

24 A. (Witness Houston) Yeah. I mean, I -- I
25 would add that certainly there was a mistake made, but it

1 was routine work. There was a work order that went along
2 with that.

3 And supervisors, they do not check every
4 piece of routine work. I mean, there's a lot of work that
5 needs to be done on the plants. And not every single
6 piece of work is checked off by a supervisor. That would
7 be duplicative efforts.

8 Q. Okay. And moving down to page 20, there's
9 discussion about an outage at McDonough on Unit 6-B on
10 January 1st, 2025. Without getting into trade secret
11 details regarding the outage, is this not a similar
12 situation where a human error by the design engineer led
13 to the outage?

14 A. (Witness Berrigan) Yeah. On this one, I
15 would say it's -- it's not similar in that the -- the
16 mistake that was made here was a result of contractors'
17 work. And, you know, the -- the checks and balances that
18 the contractor or the original equipment manufacturer has.

19 This -- this was not a mistake of a -- of a
20 Georgia Power employee. And, further, again, I mean
21 there's controls around, you know, oversight of the
22 contractor.

23 The contractor has their own procedures that
24 they're performing. You know, as a result of this, you
25 know, there were -- there was an additional four -- the

1 first four rows of blades in the turbine were replaced by
2 the manufacturer. That work was performed and no charge
3 to the company.

4 And so there was -- I'll say, you know,
5 the -- the contractor acknowledged this being their fault
6 and that they then compensated through, you know, newer
7 equipment as a result of that.

8 A. (Witness Houston) And I would also add, it's
9 true, if we were using an unqualified contractor, that
10 would certainly be imprudent. But this contractor knows
11 this equipment better than anyone. So they're qualified,
12 they're experienced. They've been on the site.

13 And -- and the issue at stake here was this
14 was their work. And there's no way we could have known
15 that they had not done this particular function. So when
16 you put that all together, we believe that it was prudent.

17 I mean, I think of it as an analogy of, say,
18 if you went to a board-certified surgeon; right? You went
19 to the surgeon, the surgeon made a mistake on a technical
20 error. That's not imprudent -- imprudence on behalf of
21 the patient; right?

22 That's -- that's a technical error that the
23 surgeon made. So this contractor is highly qualified,
24 highly experienced. There was no way that we could have
25 known.

1 Q. I understand the distinction you're making;
2 the fact that it was a vendor, the fact that it was a
3 contractor.

4 But doesn't GPC still have site access in the
5 same way as if they had done it with their own crews?

6 Like, I'm just -- I fail to see the
7 difference of why they would treat it differently because
8 it was a contractor, in terms of evaluating prudence.

9 A. (Witness Houston) And, again, I think as
10 Mr. -- Mr. Houston said, I mean, this contractor doing the
11 work, that OEM is the expert on this equipment; right?

12 We are relying on their expertise to do the
13 work. That's why we've hired them to do this work. And
14 so, again, they made the mistake. And we are relying on
15 them to do the work on our behalf.

16 Q. Mr. Evans, I know we've already discussed,
17 sir -- you've already discussed with Commissioner Hubbard
18 some matters about the RTP fuel credit methodology. I'd
19 just like to follow up with some of those discussions
20 you've mentioned.

21 Is it fair to say that the costs to RTP
22 customers is based on one set of metrics, the marginal
23 costs, but the allocation to the fuel and the base rate
24 buckets is based on a different set of metrics and
25 calculations?

1 Would that be a fair statement?

2 A. (Witness Evans) Can you repeat that?

3 Q. Sure. Is it fair to say that the cost to RTP
4 customers is based on basically the calculation of
5 marginal costs, but the allocation to the fuel and the
6 rate buckets, which you say is part of this calculation,
7 is based on a different set of metrics?

8 We're not using the exact same metric;
9 correct?

10 A. (Witness Evans) So the RTP price is based on
11 five components. The first, as I mentioned earlier, is
12 lambda. That's included in every hour.

13 The next two are also included in every hour,
14 which is line losses and a recovery factor. The -- the
15 last two components are not included in every hour. It is
16 a price signal to represent reliability costs for
17 generation. That is represented on a weather-normal year
18 over 50 hours.

19 The last component is a price signal to
20 represent transmission costs. That on a weather-normal
21 year is signaled 300 hours. So those components represent
22 the marginal cost that the system incurs to serve an
23 additional kilowatt-hour of load, or the cost avoided for
24 a kilowatt-hour reduced from the system.

25 These components have existed for 35 years.

1 They have been modified and reviewed many, many times over
2 that period of time. But they've always existed in some
3 form or fashion.

4 RTP has been designed to provide overall
5 benefits to the system of customers increasing or
6 responding to price signals. That benefit has been
7 substantial to Georgia Power in the state of Georgia over
8 these decades.

9 It is not meant, nor has it ever been, to
10 spread or average a preexisting cost to these customers.
11 These customers pay their marginal costs that are incurred
12 on the system and then some. So it's such that they
13 always benefit and put downward pressure on existing
14 customers' rates.

15 Q. Those marginal costs, would those be credited
16 to the base revenues or to the fuel revenues?

17 A. (Witness Evans) Both. As we've discussed,
18 there's an RTP credit that goes to fuel and the remaining
19 revenues go to base.

20 Q. Okay. The \$200 million recovered from RTP
21 customers for firm transportation that you mentioned to
22 Commissioner Hubbard earlier, would that be credited to
23 base revenues or fuel revenues?

24 A. (Witness Evans) So the \$200 million was
25 referencing the capital substitution component. And

1 that's the revenues received from lambda in every hour net
2 of the fuel revenue that's booked to the FCR calls. So
3 that is in base revenue. And that is downward pressure on
4 base rates that every other customer benefits from.

5 Q. Is the FT costs included in the RTP fuel
6 credit calculation?

7 A. (Witness Evans) No, no. As we said before,
8 FT costs are recovered through the capital substitution
9 component because they're fixed. The -- the RTP fuel
10 credit recovers the marginal costs that result from an
11 additional kilowatt-hour running or being added to the
12 system or being reduced from the system.

13 If it's a fixed cost, it is not included in
14 that, nor should it be. We would not want to credit a
15 customer for FT avoided if we did not avoid it by them
16 reducing a kilowatt-hour.

17 Q. And is that also a -- is that also true for
18 the non-dispatchable PPA costs?

19 A. (Witness Evans) That's correct.

20 Q. Are there general principles or best
21 practices of rate-making to try to match the costs and the
22 revenues for the same types of costs and revenues in the
23 same mechanism where you can, where it's possible?

24 A. (Witness Evans) So RTP has always -- and this
25 was heavily discussed, I believe, in the 2010 docket

1 whenever this accounting methodology was approved; right?

2 In that docket, it put downward pressure on
3 base rates because revenues were being removed from fuel
4 and putting into base rates; right?

5 A -- a key consideration that we have to
6 recognize here is that we are talking about the accounting
7 methodology. We are not talking about changing the
8 ultimate price that customers pay.

9 The RTP price is unchanged. It is just: Do
10 the revenues show up in fuel or do they show up in base
11 rate? Wherever they show up, customers benefit -- other
12 customers benefit from that by putting downward pressure
13 on those costs.

14 So in 2010, those revenues were removed from
15 fuel and put into base revenue, resulting in downward
16 pressure on base rates.

17 Q. But you would agree that the current
18 methodology doesn't match those FT costs and PPA costs
19 with the revenues; correct?

20 That's not the way it's currently designed?

21 A. (Witness Evans) That's correct. It's not
22 meant to match fixed costs on an hour-by-hour basis
23 because they do not fluctuate on an hour-by-hour basis.

24 Q. And the company currently believes that the
25 revenues collected from RTP customers is sufficient to

1 cover both fixed and fuel costs; right?

2 A. (Witness Evans) The company is certain that
3 it is recovering the marginal cost -- the incremental
4 marginal cost to serve these customers, full stop, and put
5 downward pressure on rates.

6 This has been shown for decades of RTP
7 through our cost-of-service studies being the rate
8 group -- the marginal rate group that is the closest to
9 parity going back many, many rate cases. They are the
10 closest ones to exactly covering their costs.

11 Rate groups are historically either over --
12 under parity or over parity. The marginal rate group has
13 consistently been right at parity -- right? -- case after
14 case.

15 Additionally, every one -- as I mentioned,
16 every one of these offers, whether it be through the
17 monthly access charge offer, traditional RTP offers with a
18 customer baseline, every one of those go through the rate
19 impact measure test that the company and the Commission
20 have always relied on to ensure that that downward
21 pressure on rates is occurring over the life of that
22 project.

23 Q. For the RTP fuel credit, that's based on the
24 average cost of fuel, not the -- the marginal cost of
25 running the system; correct?

1 A. (Witness Evans) It is the average marginal
2 cost of fuel. The average marginal replacement cost.

3 Q. Replacement cost?

4 A. (Witness Evans) Yes.

5 Q. Okay. That's the --

6 A. (Witness Evans) Sorry. I wanted to --

7 Q. It's understandable.

8 A. (Witness Evans) It's -- it's a long acronym.

9 Q. Yeah. Okay. How is it that the RTP fuel
10 credit is so much lower than the overall supply cost on a
11 per-megawatt basis, month over month, if the FT is
12 supposed to be already covered there?

13 A. (Witness Evans) Sure. We would expect it to
14 differ from the average. Whenever you're creating a
15 cost -- an average cost over 2.8 million customers, the
16 definition of an average is that groups will be above that
17 average and groups will be below that average.

18 The marginal rate group RTP customers have a
19 load factor nearly twice that of residential customers.
20 That means they use more fuel during low-cost hours than
21 everyone else. That drives down their price pay -- their
22 average cost incurred.

23 Customers, like the domestic class rate group
24 representing residential customers, have a load factor of
25 less than, you know, 45 percent. I think it's 42 percent.

1 They use more fuel during high-fuel-cost hours. They use
2 less fuel during low-fuel-cost hours. That drives up
3 their average.

4 Q. Right. But they're also allocated more of
5 the fixed costs; correct?

6 A. (Witness Evans) Can you repeat that?

7 Q. The -- you mentioned the -- the FCR
8 customers, wouldn't they be allocated more of the fixed
9 costs, though?

10 A. (Witness Evans) I'm not sure domestic's
11 allocation of fixed costs in the fuel cost.

12 Q. Isn't it possible that one reason the FCR --
13 I'm sorry -- the fuel credit methodology allocates the
14 fuel costs lower than the average supply -- I'm sorry.

15 Low compared to the overall supply cost is
16 that this FCR -- the fuel credit methodology doesn't
17 actually include the FT costs in the calculation directly?

18 A. (Witness Evans) Yes. I think it's important
19 to go back to the underlying principles of the RTP rate
20 and its existence to begin with.

21 Traditional rate-making methods in which
22 average costs are spread over all customers is not and has
23 never been how RTP is established. If we were to do that,
24 we would not have or need an RTP rate.

25 RTP is meant to recover marginal cost to

1 serve those customers and then provide downward pressure
2 on existing costs. Existing costs, like fixed costs. If
3 we now want to start averaging every cost on the system
4 and spreading it over all load, including marginal load,
5 then the RTP rate would not exist.

6 We have always made the distinction between
7 marginal load existing and existing load. We've always
8 made the distinction between embedded costs and marginal
9 costs. That is, by design, for 35 years.

10 Q. I understand. Historically, I understand
11 that, but with the -- with RTP customers having so much
12 more of an incremental cost to serve them, do you see how
13 it breaks down a little bit?

14 A. (Witness Evans) I don't. I only see it being
15 reinforced over and over again by the company through our
16 ARP extension, freezing base rates, with the exception of
17 storm costs, through 2028, and then our commitment of a
18 floor of revenue that produces substantial savings to all
19 other customers.

20 Q. Is your testimony that you believe that RTP
21 costs fully covers incremental FT costs caused by those
22 customers?

23 A. (Witness Evans) Yes. And we've committed to
24 benefits in excess of costs to this Commission through
25 previous stipulations.

1 Q. What about QF costs, are they also included
2 in the fuel credit methodology?

3 A. (Witness Evans) As I said --

4 Q. Are they included?

5 A. (Witness Evans) We're retreading our
6 discussion -- my discussion with Mr. Hubbard --
7 Commissioner Hubbard. They are not.

8 Those fixed costs that do not vary -- again,
9 if a kilowatt-hour comes onto the system, that does not
10 change what our costs are. If a kilowatt-hour comes off,
11 it does not reduce those costs. Therefore, they do not
12 fluctuate in the recovery.

13 Q. And we've discussed that RTP customers, they
14 pay the -- they're exposed to price utility and fuel cost.
15 So they wouldn't pay hedging costs. That was mentioned
16 yesterday.

17 But would you also agree to that statement?

18 A. (Witness Evans) Yes. I mean, I think we
19 could fast forward-through -- unless it's the average
20 incremental -- or the average marginal fuel costs, it's
21 not covered in the fuel clause, which is a key
22 distinction.

23 MR. COLLADO: All right. I have no further
24 questions.

25 CHAIRMAN SHAW: All right. Thank you.

1 Georgia Association of Manufacturers.

2 CROSS-EXAMINATION

3 BY MR. JONES:

4 Q. Good morning, Mr. Chairman, Commissioners.

5 Good morning, panel.

6 A. (Witness Houston) Good morning.

7 A. (Witness Berrigan) Good morning.

8 A. (Witness Ohlson) Good morning.

9 A. (Witness Evans) Good morning.

10 Q. All right. I just wanted to cover a couple
11 of issues with you, if I could. And let's just start with
12 hedging, which I think we've talked a lot about. So I'll
13 try not to spend too much time on it.

14 But I understand from your colloquy with
15 Commissioner Hubbard that you haven't done a strict -- a
16 quantification of hedging benefits. Is that over any span
17 of time?

18 Over 20 years, 10 years; you don't have a
19 quantification of it?

20 A. (Witness Houston) No, we don't have a
21 quantification.

22 Q. Okay. And when you're executing a hedging
23 program, you purchase financial instruments of different
24 kinds; is that right?

25 A. (Witness Houston) Yes. That's correct.

1 We -- the hedging program is not speculative in any way.
2 I think the hedging program -- hedging instruments are
3 well-defined. There's not a prop book or anything like
4 that. It's purely to put a ceiling on the prices.

5 Q. And you're -- you're limited in the types of
6 instruments you can choose?

7 A. (Witness Houston) Yes. That's right.

8 Q. Okay. Excuse me. And that effectively fixes
9 the price of a certain amount of gas in future months;
10 right?

11 A. (Witness Houston) Yes.

12 Q. And do you do that on a month-by-month basis?

13 A. (Witness Houston) Yeah. Continually, almost
14 on a daily basis, looking at the market and then putting
15 on hedges as appropriate to meet those thresholds.

16 Q. And so if the actual market price in the
17 month that you buy the hedge settles below the hedge
18 price, you record a hedging loss; right?

19 A. (Witness Houston) Yes. That -- that is true.
20 But the flip side of a hedging loss, as we talked about
21 yesterday, is a lower natural gas price, which benefits
22 all customers.

23 Q. And if -- again, if the market price settles
24 above that hedge price, then you record a hedging gain;
25 correct?

1 A. (Witness Houston) Yes. That's right.

2 Q. Would you agree that the purpose of your
3 hedging program, or any good hedging program, should be to
4 allow you to meet the market, as we said, not beat it;
5 right?

6 You're not trying to beat the market, so to
7 speak?

8 A. (Witness Houston) Absolutely not. It's not
9 -- this is not about beating the market, entering into
10 sort of exotic or speculative-type transactions. Very
11 vanilla-type instruments that are used and they are
12 layered in over time in a disciplined way to give us the
13 coverage up to the hedge percentage that we've agreed to
14 with this Commission.

15 Q. Okay.

16 A. (Witness Ohlson) So can I just add to that?

17 Q. Please, yeah.

18 A. (Witness Ohlson) When you say meet the
19 market, the hedging program is designed to not meet the
20 market for a portion of it during certain market
21 disruptions; right?

22 So it's designed to protect part of your fuel
23 portfolio from meeting the market during those
24 discussions.

25 Q. Are you saying "meeting" or "beating"? I'm

1 sorry.

2 A. (Witness Olson) I said "meet".

3 Q. Meeting, okay.

4 A. (Witness Olson) I thought you -- I thought I
5 was using the words you used.

6 Q. No, you're right.

7 A. (Witness Olson) Okay.

8 Q. You're right. You're right. I wanted to
9 make sure we were --

10 A. (Witness Olson) That's the --

11 Q. Too much rock and roll sometimes and I'm --

12 A. (Witness Olson) The hedging program is not
13 designed to beat the market or...

14 Q. Right.

15 But -- so, in other words, to -- to simplify
16 it, in the long run, the goal you should -- you should
17 have a goal of offsetting hedging losses with hedging
18 gains over a long period of time; correct?

19 A. (Witness Houston) Yeah. I think in the -- in
20 the long run, maybe mathematically that's how it should
21 work out, yes.

22 Q. Yeah. And so what is the company -- I think
23 someone else asked this, but I wasn't quite clear on the
24 answer. What does the company consider long term?

25 What would you consider long term when you're

1 sort of measuring the effectiveness of the hedging
2 program?

3 A. (Witness Houston) Well, we're on a -- at the
4 moment, we're on a 36-month. We can hedge out 36 months.
5 So I would say -- I mean, there are a number of different
6 periods you can look at the effectiveness.

7 You can look at each year cumulative. I
8 think -- I think long term we try and manage to that
9 36-month horizon.

10 Q. Okay. Well, if you did that, though, it
11 wouldn't look very good for the last three years, right,
12 since you've had significant losses for the last three
13 years?

14 A. (Witness Houston) Yeah. Certainly if you
15 looked at the last three years, I think it's more losses
16 than gains. In each period there are going to be
17 individual transactions that are gains and losses.

18 If you look at a slightly longer period, I
19 think you would maybe see more gains than losses,
20 especially in 2022 when we needed those gains because of
21 significant price increases.

22 Q. Right. So you could look -- you know, it all
23 depends on the time frame you look over. Like the
24 company's pointed out, if you look over the last
25 ten years, it's more even out or a slight gain.

1 The staff has a chart in their testimony.
2 You would agree that over the past 20 years would be
3 losses again -- right? -- at those 21 years we keep
4 talking about?

5 A. (Witness Houston) Yeah. Yep.

6 Q. Yeah.

7 A. (Witness Houston) That -- that graph is
8 accurate, in terms of the numbers. But it doesn't
9 acknowledge the change in the natural gas environment.
10 Some of the years in there were pre-fracking -- right? --
11 and we all know what fracking has done to natural gas
12 prices. More volatile perhaps than those earlier years.

13 And so, as I say, you can pick any time
14 series. If you look at that 2025 year table, I think
15 that's a little bit misleading. Because the earlier years
16 where -- it's true that we did have some losses. Just the
17 market is fundamentally different.

18 Q. Yeah. Okay. Fair enough.

19 So if we look at, though, like, just say the
20 natural gas spot price -- Mr. Pollock had an exhibit in
21 his testimony. Did you see it?

22 That sort of showed the history of that. I
23 don't want to take the time to show it to you again.

24 A. (Witness Houston) Yes.

25 Q. But I will if you would like to see it,

1 but...

2 A. (Witness Houston) I remember there was a
3 graph right in the back that had --

4 Q. Yeah.

5 A. (Witness Houston) -- a 50-year history of
6 natural gas prices, but I suspect that's not what you're
7 referring to.

8 Q. No. It's a little bit less than that.

9 So, I guess, let me just try it this way so
10 we can save some time is the -- would you agree with me
11 that a lot of the peaks in the natural gas spot prices
12 come in the wintertime, over time?

13 A. (Witness Houston) I would not -- I would not
14 be surprised if that's true. I just -- I don't have a --

15 Q. Yeah.

16 A. (Witness Houston) -- good enough memory of
17 when the spikes come. Because spikes do come for reasons,
18 other than just --

19 Q. Sure.

20 A. (Witness Houston) -- winter. There's summer.

21 Q. Sure.

22 A. (Witness Houston) Could be --

23 Q. Russia invaded Ukraine?

24 A. (Witness Houston) Yeah, yeah.

25 Q. Spring?

1 A. (Witness Houston) As we talked about, it
2 could be macroeconomic events, so...

3 Q. Right.

4 A. (Witness Houston) If that's true, that
5 doesn't surprise me. But --

6 Q. Yeah.

7 A. (Witness Houston) -- peaks also come in the
8 summer and peaks also come at times you do not expect it.
9 And that's part of the hedge program.

10 Q. Does the company on a month-by-month basis
11 consider historical patterns like that?

12 In other words, are you trying to hedge more
13 in January, February? Are you trying to maybe hedge less
14 in some of the months where maybe hedging wouldn't provide
15 as good a benefit?

16 Or are you just doing the same thing each
17 month?

18 A. (Witness Houston) No, I think we're always
19 looking at the market. And, obviously, seasons are very
20 important for natural gas. Then there's the storage
21 injection season, and then there's the withdrawal season.

22 So as we move through those seasons and you
23 have an opportunity to look ahead based on a -- on a
24 window -- that's currently 36 months. But we would -- we
25 are requesting to extend that to 48 months.

1 As you look at that and you're seeing maybe
2 fewer injections, more injections, I think that all
3 informs the team about when to put hedges on.

4 Q. Do you think it would be a good improvement
5 to the program?

6 I mean, I hear you're saying that you're
7 doing that. Would it -- would it be an improvement or
8 change the program?

9 And, if so, would it be a good one to focus
10 on the winter pretty much for your hedging?

11 And some of these other events, like -- you
12 can't predict. So hedging is really just more of a gamble
13 then. But you have a pretty good sense that it's going to
14 be high prices in the winter and maybe a better time to
15 hedge?

16 A. (Witness Houston) I mean, I think we need to
17 look at all market factors. And, you know, we -- if
18 you -- if you put an element of trying to make a period
19 you are trying to hedge against, then that goes a little
20 bit against the hedge program.

21 I'm not saying that we shouldn't acknowledge
22 that there are differences seasonally, but the purpose of
23 the hedge program is over the hedge window to put enough
24 insurance in place that if there's a sudden spike, which
25 could be caused by something other than seasons, that

1 there's coverage. But also acknowledging that seasons do
2 exist, I guess.

3 Q. So factoring that in in some way?

4 A. (Witness Ohlson) Yeah. And can I -- if you
5 have this three -- and we're asking for a four-year window
6 look-ahead. When you're hedging natural gas, if there are
7 patterns seasonally, those would be -- we -- they would be
8 reflected in the forward curves that you are hedging
9 against; right?

10 And it also goes a little against the -- the
11 idea of hedging in general, which we don't know when the
12 market disruptions will occur. I mean, we -- you can
13 understand that seasonally gas prices will increase as
14 demand goes up. But for reasons that you can find
15 historically, a lot of the disruptions can happen for
16 different reasons, as well.

17 So hedging is not meant to identify exact
18 future disruptions and guard against them. It's meant to
19 protect all the time and for what you don't know is going
20 to happen.

21 Q. But you can still look at historical patterns
22 and how you could design your system; right?

23 A. (Witness Ohlson) You could look at
24 historical patterns. And, again, forward markets would --
25 would express those patterns, as well.

1 Q. Okay, okay. Moving to production tax
2 credits. I believe on page 35 of your testimony, the
3 panel states that there have always been base rate costs,
4 but I'd like to ask a few questions about that.

5 Income taxes are based on taxable income;
6 correct?

7 A. (Witness Houston) Correct.

8 Q. And income is the difference between your
9 base revenues and deductible base rate expenses, which are
10 base rate costs; is that fair?

11 A. (Witness Houston) Fair.

12 Q. But production tax credits and their value
13 are not based on income. They're earned for every
14 kilowatt-hour generated by a resource that's eligible for
15 the credit; right?

16 A. (Witness Berrigan) And the production tax
17 credits, or tax credits in general, are meant to be a
18 reduction of income tax expense.

19 Q. Well, that wasn't my question. How are they
20 generated?

21 They're generated based on kilowatt-hour
22 usage, not on income; correct?

23 A. (Witness Berrigan) Correct.

24 Q. Okay. In other words, the same kilowatt-hour
25 that causes Georgia Power to incur fuel costs is the same

1 one that generates these nuclear PTCs that are issued?

2 A. (Witness Berrigan) Correct.

3 Q. Correct?

4 All right. And the ones at issue in this
5 case were enacted after your '22 rate case; would you
6 agree?

7 A. (Witness Berrigan) That's correct. The '22
8 rate case is the -- that is the -- the case that required
9 the company to include those as a -- on the balance sheet
10 and defer those for recognition in a future proceeding.

11 Q. But the specific tax credits here you're --
12 that you're using in the storm damages case to reduce base
13 rates, those aren't the ones that were in existence when
14 base rates were last set; right?

15 A. (Witness Berrigan) That's correct.

16 Q. They're in 2024 and '25.

17 And there's no Commission order regarding
18 those specific tax credits as to how they should be
19 treated; right?

20 A. (Witness Berrigan) The ones that we're
21 proposing to use for storms?

22 Q. In '24 and '25.

23 A. (Witness Berrigan) The -- yes. Last
24 summer's stipulation, the Commission -- part of that order
25 was that the company would recognize those in income in

1 '26, '27, and '28 as part of the rate stay out.

2 Q. Well, but -- but there's nothing that would
3 prevent the Commission from applying them here in the fuel
4 case; right?

5 The Commission has the authority to do that?

6 A. (Witness Berrigan) The Commission has the
7 authority to -- yes.

8 Q. Right. And applying -- as Mr. Pollock
9 testified yesterday, applying those nuclear PTCs to
10 lower -- lower fuel costs would actually benefit non-RTP
11 customers -- right? -- because it would benefit the FCR
12 rate?

13 A. (Witness Berrigan) I think from a -- a pure
14 revenue requirement perspective, the impact would be the
15 same. I think what he's -- what he spoke to yesterday was
16 the allocation -- right? -- across customer classes, rate
17 classes of how those would be beneficial to each of those
18 different classes. But the actual benefit, the overall
19 reduction in rates or revenue requirement would be the
20 same under storm or -- or fuel.

21 Q. Yeah. That was my next question. So
22 ultimately there's no difference in your net revenues
23 whether you use them.

24 In this case, you're using them in the
25 base -- for storm damage; right?

1 A. (Witness Berrigan) Correct.

2 Q. Okay. And of the -- the available credits
3 that you have, the company is proposing to use 25 percent
4 of them; is that a number I remember correctly?

5 A. (Witness Berrigan) In the storm case --

6 Q. In the storm case.

7 A. (Witness Berrigan) -- the company had
8 proposed to use 25 percent of the ones that had been
9 generated for tax years '24 and '25.

10 Q. And is there any consideration to using more
11 than that since you have -- you have three times more
12 that's sitting there?

13 Are there any -- any other thoughts of using
14 additional amounts to help improve affordability?

15 A. (Witness Berrigan) As we -- you know,
16 included in our storm filing, we believed that the
17 25 percent was the appropriate amount to include as a
18 reduction to the revenue requirement.

19 Q. All right. Thank you.

20 So my last question goes to -- we've been
21 talking about RTP a lot. And, Mr. Evans, you've been
22 saying a lot about it this morning.

23 And you recall the chart in staff's testimony
24 showing the difference between the average fuel cost and
25 the RTP fuel credit?

1 A. (Witness Evans) Yes.

2 Q. And you were speaking to that earlier and
3 explaining some of the ways that -- that RTP customers pay
4 for FT through the capital substitution charge; right?

5 Is any of the difference that we see there --
6 and you were getting to this and I'm -- maybe I didn't
7 hear it clearly enough. Is any of the difference there
8 getting to the different types of load shapes that we see
9 with RTP customers, as opposed to non-RTP customers?

10 A. (Witness Evans) Yes, yes. I -- I think I
11 touched on it, but I'll -- I'll expand a little bit. RTP
12 customers, I believe the marginal rate group's load factor
13 is over 70 percent. I think it's about 72 percent. The
14 domestic rate group's load factor, I believe, is
15 42 percent, subject to check, but I think those numbers
16 are right.

17 That means that residential customers use
18 energy during high-fuel-cost hours more as a -- as a
19 percent of their total usage -- right? -- such that their
20 average fuel costs incurred is higher.

21 RTP customers, because their load factor is
22 72 percent, they use energy much, much more throughout the
23 entire year. That means that they use more kilowatt-hours
24 during low-fuel-cost times.

25 We would -- as you would expect with, you

1 know, 2.8 million customers, different load shapes,
2 different types of businesses, manufacturing facilities,
3 small commercial, residential, lots of customers use
4 energy at different times throughout the year; right?

5 Whenever you're looking at an average, there
6 will be rate groups that use -- whose cost is higher than
7 that average. And then there will be some that are lower.
8 By RTP's costs matching its actual price, they are lower.

9 MR. JONES: Mr. Chairman, that's all I have
10 for today.

11 CHAIRMAN SHAW: Thank you, Mr. Jones.

12 Panel, do y'all need to take a break or are
13 you ready to keep going?

14 MR. EVANS: Keep going.

15 CHAIRMAN SHAW: Ready to go. Good deal.

16 All right. We'll call up the next, and that
17 would be Georgia Interfaith Power and Light and
18 Southface.

19 MS. WHITFIELD: Chair, with your permission,
20 I'd like Mr. Sherrier to hand out GIPL and
21 Southface Exhibits 1, 2 and 14, which were used
22 yesterday. He's really just handing them to
23 Mr. Evans, who didn't receive them.

24 And good morning.

25 MR. HEWITSON: Good morning.

1 CHAIRMAN SHAW: Good morning.

2 MS. WHITFIELD: Good morning, Commissioners.

3 Good morning, Panel.

4 CHAIRMAN SHAW: It is still morning.

5 BY MS. WHITFIELD:

6 Q. Let's talk about RTP, Mr. Evans. We've
7 established that the RTP fuel credit reflects the money
8 contributed by RTP to offset costs to everyone else in the
9 FCR docket. Correct?

10 A. (Witness Evans) Yes.

11 Q. And RTP fuel credit is the hourly average
12 marginal fuel cost, which is calculated using bottom of
13 the -- bottom of stack unit costs and takes pooled sales
14 into account as well; correct?

15 A. (Witness Evans) Sales and purchases, yes.

16 Q. The RTP fuel credit does not include any cost
17 or compensation in the fuel docket for firm
18 transportation; correct?

19 A. (Witness Evans) That's correct.

20 Q. It doesn't include any cost for
21 non-dispatchable PPAs; correct?

22 A. (Witness Evans) That's correct. Those fixed
23 costs that do not vary with kilowatt hour sales, but, in
24 many cases, put lower -- put downward pressure on our fuel
25 costs incurred; right? And I think FT is a great example

1 of that.

2 If there was no FT incurred, our marginal
3 average replacement costs would be higher. So that's an
4 example of a fixed cost, like there is a number of fixed
5 cost incurred through prudent generation resource planning
6 that we -- that the units selected have higher fixed costs
7 at the benefit of lower operating costs and fuel costs.

8 Q. And the RTP fuel credit also does not include
9 any costs or renewable program expenses, correct?

10 A. (Witness Evans) That's correct.

11 Q. Or hedging, correct?

12 A. (Witness Evans) Yes. Again, if it's not in
13 the definition that you said, then it's not included in
14 the FCR recovery.

15 Q. So the RTP fuel credit does not include any
16 costs for the senior citizen fuel discount; correct?

17 A. (Witness Evans) Can you repeat that?

18 Q. The RTP fuel credit does not include any
19 costs towards the senior citizen fuel discount, correct?

20 A. (Witness Evans) No. That -- that fixed cost
21 again does not vary with kilowatt hour usage, is an
22 embedded cost, and is not under the design of RTP in
23 total. However, all of our RTP customers and our marginal
24 customers have embedded cost allocation, right, and bear
25 portions of the income-qualified discount program, which

1 it's now called, and that income-qualified program is
2 spread out among all of our ratepayers.

3 Q. But not the senior citizen fuel discount that
4 is specifically accounted for in the fuel docket; correct?

5 A. (Witness Evans) Not that portion of it;
6 correct.

7 Q. Correct. So that means that everyone else,
8 meaning non-RTP customers, are paying for 100 percent of
9 those costs as part of their fuel charge in this fuel
10 docket; correct?

11 A. (Witness Evans) Well, again, if we're
12 talking about the accounting and splitting of base and
13 fuel revenues, that is correct. However, it is widely
14 known and known for many, many years, and when this
15 accounting change was made, that it was recovered and
16 putting downward pressure in base rates, and so the price
17 in total is not changing. The costs are covered by these
18 customers and it is producing well beyond the expenses
19 incurred in the fuel clause through revenue in the basic
20 side.

21 Q. You haven't provided any accounting as part
22 of this docket for the benefit that you are describing in
23 a rate case; correct?

24 A. (Witness Evans) Again, I think you can go
25 back to the cost of service study filed in the last rate

1 case. In all of them it's clearly identified. You see
2 the amount of capital substitution removed from every rate
3 group and rate. It's taking those costs away from them.

4 And then the next line -- and I can give you
5 line references if needed. The next line shows all of
6 those costs being directly allocated just to the marginal
7 rate group. That benefit, as I mentioned in the last
8 filed study, I believe was 200-plus million dollars for
9 that single year.

10 Q. So \$200 million a year is the total capital
11 substitution costs that is allocated on an annual basis
12 for the RTP rate in the base rate case?

13 A. (Witness Evans) No. That was a single year
14 in 2021 based off of RTP loads, lambdas and costs in 2021.
15 As you see those costs increase and those loads increase,
16 that benefit will substantially increase. I would expect
17 it to be far greater than that in the next filed study.

18 Q. Did you provide any accounting in this docket
19 to reflect the costs that you're describing that you
20 expect will be far greater in a future rate case?

21 A. (Witness Evans) No.

22 Q. So let's turn to firm transportation. I
23 believe you've described today, but if not today, then
24 certainly in your document responses, you've described
25 that Georgia Power contemplates the RTP price as being

1 designed to collect money from RTP customers to contribute
2 towards firm transportation; is that correct?

3 A. (Witness Evans) Can you point me to where
4 that was said?

5 Q. Sure.

6 (The document referred to was marked for
7 identification as GIPL/Southface Exhibit 4.)

8 MS. WHITFIELD: Mr. Sherrier, could you
9 please provide GIPL/Southface Exhibit 4, which is
10 STF-PIA-3-5.

11 If he may approach.

12 MR. HEWITSON: Sure.

13 MR. EVANS: Just for me, or everyone?

14 MR. HEWITSON: Thank you.

15 BY MS. WHITFIELD:

16 Q. And do you see here that it is Georgia
17 Power's position that RTP revenue is designed to
18 contribute towards firm transportation?

19 A. (Witness Evans) That's correct.

20 Q. But, again, non-RTP customers are charged for
21 100 percent of firm transportation, correct, in this
22 docket?

23 A. (Witness Evans) Again, the answer is in
24 total benefits to customers through the total RTP revenue
25 across basin fuel, RTP prices, which are designed in

1 total.

2 Again, the price components that I described
3 earlier deliver a single price hour by hour to our
4 customers that varies. On the back end, the accounting
5 and split between base and fuel is done. So the costs are
6 absolutely being covered through the RTP price.

7 Q. But you realize that by not accounting for
8 those costs in this docket where 100 percent of the costs
9 are charged, that means that non-RTP customers pay
10 100 percent of the firm transportation account; correct?

11 A. (Witness Evans) No, because they pay more
12 than just the fuel costs. If they get to benefit on the
13 base side of their bill, then they do not pay for
14 100 percent of the costs. They pay both fuel and base
15 costs. They get a benefit on base that offsets fuel.
16 They do not pay 100 percent.

17 Q. So your answer is no because of a future
18 benefit that might happen concerning firm transportation
19 in a rate case. But if we could for a moment focus on the
20 accounting in this specific case.

21 A. (Witness Evans) Sure.

22 Q. You agree that 100 percent of firm
23 transportation costs are charged in this docket; correct?

24 A. (Witness Evans) Firm transportation costs
25 have existed beyond this case, beyond the historical year

1 and beyond when the accounting order changed fuel recovery
2 in 2010. So no, I disagree. We have filed many rate
3 cases that show those costs and benefits being recovered.

4 Q. I'm sorry. You disagree that yesterday
5 your -- your co-panelists, I think we established that
6 100 percent of firm transportation costs of Georgia Power
7 are accounted for to be recovered in this docket. Are you
8 disagreeing with that?

9 A. (Witness Evans) No, I'm saying that that is
10 not -- you cannot look at it in isolation, and that this
11 is not a new issue that has come up. We have shown those
12 benefits many, many times.

13 So -- and please forgive me if I have
14 mischaracterized your question. It seemed as if you were
15 saying that we have never shown those benefits to be
16 offsetting, and I disagree with that.

17 Q. That's -- no, I'm -- I asked specifically
18 about the costs in this docket. So let's break it down.

19 100 percent of firm transportation costs are
20 charged in this docket; correct?

21 A. (Witness Evans) Correct. And offset by the
22 associated revenues in the base case.

23 Q. And RTP revenue in this docket, as reflected
24 in the RTP fuel credit, provides zero dollars towards firm
25 transportation; correct?

1 A. (Witness Evans) And ten times the associated
2 dollars in the base case.

3 Q. Correct. So you're agreeing with me?

4 A. That it provides substantially more in the
5 base case, yes.

6 Q. Mr. Evans, I'll ask again.

7 A. (Witness Evans) I agree that it's not in
8 this docket, but I disagree that you can look at the
9 docket in isolation.

10 Q. That's okay. We can -- we can agree to
11 disagree on that.

12 So Georgia Power is collecting those revenues
13 from RTP customers designed for firm transportation in
14 real-time, correct, in its monthly bills for RTP
15 customers?

16 A. (Witness Evans) Yes.

17 Q. But the benefit that you're describing will
18 arrive in a rate case?

19 A. (Witness Evans) Well, the benefit arrives as
20 the revenue's received and goes through the accounting
21 treatment and the regulatory process. So, I mean, the
22 revenues show up in real-time.

23 Q. I'm sorry. That was a confusing question. I
24 meant the benefit for residential and small business
25 customers, not the company.

1 A. (Witness Evans) Not -- I think those
2 benefits show up too. I mean, these revenues are not
3 below the line revenues. They go through the rate-making
4 process and are captured as part of the company's total
5 retail revenues.

6 Q. But meanwhile, you agree that residential and
7 small business customers are paying for one -- and not --
8 and other non-RTP customers, are paying for 100 percent of
9 Georgia Power's firm transportation costs in their fuel
10 rider; correct?

11 A. (Witness Evans) Again, yes, in that specific
12 docket, that is correct. And the associated revenues in
13 the base case are part of what also, right, as it goes
14 through the ratemaking process and the benefits from RTP
15 customers and large load and economic development that we
16 have seen, are what helped us stay out of a base rate
17 increase that customers have benefited from, with the
18 exception of the fuel increase, and have resulted in us
19 setting a floor of minimum revenues with substantial
20 benefits and savings for those very customers.

21 Q. So I'd like to turn to non-dispatchable PPA
22 costs, which we've covered, are not included in the RTP
23 fuel credit. And I want to understand the scope of what
24 you mean by non-dispatchable PPA costs.

25 MS. WHITFIELD: And for that, Mr. Sherrier,

1 if you could provide, with the Commission's
2 agreement, solar PPA tab of MFRP-1.

3 BY MS. WHITFIELD:

4 Q. And also, Mr. Evans, if you could take a look
5 at GIPL/Southface Exhibit 14, which is MFRP Exhibit 1,
6 line 27. These two exhibits are from the same document.
7 One is a worksheet underlying the summary of Exhibit 1.

8 And recognizing, Mr. Evans, that we did not
9 walk through MFRP Exhibit 1 together yesterday, if you
10 need a minute to take a look at that too and sort of
11 orient yourself, I understand. Otherwise, my question is
12 the solar PPA tab calculates the monthly projected total
13 costs of PPAs and QFs for solar that are recovered in this
14 FCR docket; correct?

15 A. (Witness Evans) I'll take your word for it.

16 Q. Okay. Well, how about, then, we look at
17 MFRP-1, line 27. Would you agree that that line item in
18 the projected fuel expenses for the FCR-27 budget that
19 says "Solar PPAs" reflects the total expenses in the test
20 period for those solar PPAs to be recovered in this
21 docket?

22 A. (Witness Evans) Again, I'm not familiar with
23 the makeup or details of that MFR. I can't speak to it,
24 what the underlying details are.

25

1 Q. Mr. Houston or Mr. Berrigan, could
2 you confirm that?

3 A. (Witness Houston) Yes, that is -- that is
4 correct, but I'm not sure if this schedule ties to the
5 number we have there on the screen.

6 Q. Would it be fair for me to ask the company to
7 correct me if that is not, in fact, the case, and let me
8 know, so we could say that's subject to check and move
9 forward.

10 Mr. Evans, the tab with a list of projects is
11 provided to you to give you a sense of the kinds of things
12 included in those overall numbers at the bottom of that
13 sheet, and then the total on MFRP-1, Exhibit 1, are these
14 the kinds of costs that are non-dispatchable costs, as you
15 described?

16 A. (Witness Evans) You'll have to forgive me.
17 This is six pages of really, really small font, and I'm
18 not sure I can read it.

19 Q. That is -- that's fair enough.

20 A. (Witness Evans) And regardless, I'm not -- I
21 would not be familiar with every single one of these 600
22 rows of data just provided to me.

23 Q. Are there any costs for solar PPAs or solar
24 QFs that are considered anything other than
25 non-dispatchable PPA costs?

1 A. (Witness Evans) Again, I'm hesitant to be --
2 to give an absolute answer, just because I do not know the
3 ins and outs of every single one of our PPA agreements.

4 Q. Okay.

5 A. (Witness Evans) So I know the process that
6 we go through in determination of what is or is not
7 included in that average marginal replacement cost
8 calculation, so that -- such that if a unit is not
9 dispatchable, right, then it's not included. So if we
10 have dispatchable PPAs, then I would imagine it would be
11 included without knowing those details.

12 Q. Would that be something that the company
13 could provide as part of a hearing request --

14 A. (Witness Evans) We can confirm that.

15 Q. -- which aspects of that line item and/or
16 that itemized sheet are considered to be dispatchable
17 versus non-dispatchable costs? Could you provide that as
18 part of a hearing request?

19 A. (Witness Evans) We can certainly try. I
20 don't know that -- this is not my area of expertise with
21 the PPA, so I'm hesitant to commit to something that there
22 might be nuances with, but --

23 MS. WHITFIELD: But, Mr. Chair, we'd like to
24 make a hearing request for an itemization of which
25 components of these solar PPA costs are considered

1 non-dispatchable PPA costs.

2 MR. HEWITSON: Good.

3 BY MS. WHITFIELD:

4 Q. I'd like to ask you about wind generally. Is
5 wind generally considered a non-dispatchable PPA cost?

6 A. (Witness Evans) Again, that would -- that
7 would be dictated by the PPA terms of the agreement.

8 Q. How about biomass PPAs? Are those considered
9 non-dispatchable PPA costs?

10 A. Same thing.

11 MS. WHITFIELD: Okay. Commissioner, I'd like
12 to make a hearing request for an itemization of
13 which of the costs included in MFRP-1, line 29,
14 that's wind, and MFRP-1, line 28, that's biomass,
15 are considered to be non-dispatchable PPA costs.

16 MR. HEWITSON: Very well.

17 BY MS. WHITFIELD:

18 Q. Mr. Evans, what do you consider to -- what --
19 what categories are generally considered to be
20 non-dispatchable PPA costs as you testified to in your
21 testimony --

22 A. (Witness Evans) Sure.

23 Q. -- at page 31.

24 A. (Witness Evans) It would be if -- if they
25 are dispatchable, meaning we can control when they put

1 energy on or off the system such that we are not obligated
2 takers when they are economically unusable and therefore
3 do not provide economic benefits to the system.

4 Q. So you testify that non-dispatchable PPA
5 costs were recorded as FCR expenses prior to 2010, and, in
6 fact, they're -- they're still recorded as FCR expenses.
7 I think the question is about RTP's payment. But I'm
8 curious how you offer that testimony. Is there someone
9 else on the panel who can speak to what kinds of costs are
10 non-dispatchable PPA costs?

11 A. (Witness Houston) No, I don't have any
12 knowledge of that.

13 A. (Witness Evans) And help me here because,
14 again, the process of determining it is based on the
15 agreement, the underlying PPA agreements.

16 Q. Sure.

17 A. (Witness Evans) I'm not familiar with the
18 600 lines of PPAs and QFs and the agreements associated
19 with them.

20 Q. Sure.

21 A. (Witness Evans) But we are -- our experts
22 that review those and determine the appropriate treatment
23 of them do those as those agreements come up.

24 Q. But I've also asked you about general
25 categories of fuel, and no one's been able to answer that

1 as well.

2 A. (Witness Evans) Can you repeat your
3 question?

4 Q. Sure. Is anyone on the panel able to speak
5 to what kinds of PPAs are considered non-dispatchable PPAs
6 by Georgia Power?

7 A. (Witness Evans) I thought I answered that.
8 It's those that we do not control when they dispatch and
9 put energy onto the system.

10 Q. Like what kinds of fuel supply? Wind, gas,
11 biomass, solar?

12 A. (Witness Evans) I believe we have some of
13 each one of those categories that we view as
14 non-dispatchable. Yes.

15 Q. Okay. You have non-dispatchable gas PPAs; is
16 that right?

17 A. I'm not familiar with the details of those
18 PPA. I'm not sure.

19 MS. WHITFIELD: I'd like to make a hearing
20 request for any non-dispatchable gas PPAs that
21 Georgia Power might have and an itemization of
22 those.

23 MR. HEWITSON: Okay. The breakdown of the
24 costs like you asked for in the other hearing
25 requests?

1 MS. WHITFIELD: Yes.

2 MR. HEWITSON: Okay. Just wanted to make
3 sure we're not asking for the PPAs. You're looking
4 for a breakdown of the costs --

5 MS. WHITFIELD: Yes. I'd like to know how
6 much of that specific line item. So the line items
7 on MFRP-1, Exhibit 1, how much of each of those
8 line items is deemed non-dispatchable for the PPAs.

9 Thank you.

10 CHAIRMAN SHAW: Wouldn't biomass be
11 dispatchable?

12 MS. WHITFIELD: Well, that's a good question.
13 I'm not -- I'm not sure, because I do know there
14 were some real questions about offering it capacity
15 credit, and its inability to perform. And when
16 we -- when we did the last certification for
17 biomass and there was some -- feels like it's a bit
18 of a gray area, and so I'm not -- I'm not sure how
19 that would be handled. It's one of the reasons I
20 wanted to ask for how that's broken up here.

21 BY MS. WHITFIELD:

22 Q. So you testify that -- you testified that a
23 number of non-dispatchable PPA costs were recorded as FCR
24 expenses prior to 2010. Are you aware that as of 2013, at
25 least, the amount of solar on line was nominal, less than

1 300 megawatts?

2 A. (Witness Evans) Yeah. I believe we have
3 substantially increased our solar generation through PPAs
4 significantly since then. Yes.

5 Q. Okay.

6 A. (Witness Evans) But that doesn't change the
7 underlying treatment of it. I mean, I think that
8 generation grows over time, but it doesn't change whether
9 it's viewed as an average marginal replacement cost or
10 not. It just means we have more of it.

11 Q. Sure. But surely you'd agree that larger
12 line items in the company's budget get more attention from
13 staff and commissioners and intervenors than smaller line
14 items; correct?

15 A. I'll take your word for it.

16 Q. So I'd like to ask you about a few of the
17 technicalities of the pricing structure. And as table
18 setting, you've said multiple times λ is a component
19 of price. The RTP fuel credit is the credit that we see
20 in the fuel docket specifically.

21 So you mentioned, I believe, in earlier
22 questions or in your summation that λ is based on the
23 highest cost unit running to serve the system. Is it
24 still true, as it was in 2000, that λ is the marginal
25 cost of the last resource used to serve the last increment

1 of load?

2 A. (Witness Evans) Yeah, I think you misquoted
3 me slightly at the beginning. I think I said economic
4 unit running.

5 Q. Okay. And help me understand that
6 distinction, please.

7 A. Sure. It's -- lambda is always dispatching
8 our system in economics. There might be situations where
9 a unit has to run outside of economics for a variety of
10 conditions, for a variety of reasons, circumstances. But
11 lambda is always capturing that highest economic unit
12 running on the entire system.

13 Q. Sure. So if coal is in a must-run state, it
14 would not be included. The price of that coal would not
15 necessarily -- would not be included in the lambda
16 calculation; correct?

17 A. (Witness Evans) That's correct.

18 Q. And if coal is dispatched out of economic
19 order, due to some of the various operating constraints,
20 it would not be included as lambda; correct?

21 A. (Witness Evans) I believe that's correct.

22 Q. You also mentioned, and, again, I may be
23 misquoting you, so please correct me if it feels like I
24 am.

25 I believe you said that lambda is higher than

1 the embedded RTP fuel credit. Is that -- did I get that
2 right? Is that what you said earlier?

3 A. (Witness Evans) Yes. Lambda, on average,
4 is -- I'm going to get this a little bit wrong, but it's
5 somewhere in the neighborhood of 50 to 60 percent higher.

6 Q. Than the RTP fuel credit?

7 A. (Witness Evans) That's correct.

8 Q. Okay.

9 A. (Witness Evans) Which makes sense because
10 the RTP fuel credit is an average. You think about, like,
11 the units running at a period of time; right? Lambda is
12 always the highest one on the system running in economics.

13 RTP fuel credit essentially is an average of
14 all those units that are cheaper than it for Georgia
15 Power. So the RTP fuel credit is always cheaper than
16 is -- than if you modeled and priced 100 percent of that
17 load running at just the most expensive.

18 Q. If you could turn to STF-JKA-1-4,
19 supplemental, which was handed out to you earlier and it
20 has -- just for ease of reference, though you may know
21 this at the top of mind, but this is the exhibit in which
22 you describe the term lambda as the hourly running cost of
23 incremental generation, and you describe the RTP fuel
24 credit as the hourly average marginal fuel cost for the
25 applicable hour.

1 Do you see that? It's on the second page.

2 A. (Witness Evans) What response number was
3 that?

4 Q. It's JKA-1-4, supplemental. It's paragraph
5 B, which is on the second page.

6 And my only question here is that you use the
7 term "incremental" in the context of price, and you use
8 the term "marginal" in the context of credit.

9 Could you please describe the difference
10 between those two terms in this context and how you're
11 using them.

12 A. (Witness Evans) In this context, I think
13 they're interchangeable.

14 Q. Okay. Thank you.

15 The RTP fuel credit is based on the hourly
16 average marginal fuel cost of Georgia Power's generation
17 units, correct?

18 A. (Witness Evans) With the addition of -- of
19 pool purchases and sales.

20 Q. Okay. Is lambda also calculated by -- based
21 on the incremental generation of the same set of Georgia
22 Power's generation units?

23 A. (Witness Evans) No. No. It's -- lambda is
24 a system number. So Georgia Power very well could have no
25 units running at the price lambda is set on, because

1 lambda is set based on another pool participant's unit
2 that is being dispatched at a higher price.

3 Q. And when you say it's a system number, does
4 that mean the Southern Company system?

5 A. (Witness Evans) The Southern pool. That's
6 right.

7 Q. I want to turn to the history of the RTP fuel
8 credit. You mentioned, page 31, line 3, that the RTP fuel
9 credit that we use today was updated in 2010. And by
10 using the phrase "update," you acknowledge that the RTP
11 fuel credit was not originally designed the way it was
12 used today; correct?

13 A. (Witness Evans) Can you -- was that rebuttal
14 testimony?

15 Q. It was. It's page 31, lines 3 through 8.

16 A. (Witness Evans) Yes. I've got it.

17 Q. Oh, you got 3.

18 A. (Witness Evans) Yes, I got it.

19 Q. Okay. Great. Are you aware that when RTP
20 tariff was originally designed, Georgia Power credited the
21 fuel balance for RTP customers at the same FCR rate as
22 charged everyone else?

23 A. (Witness Evans) Yes.

24 (The documents referred to was marked for
25 identification as GIPL/Southface Exhibit 3.)

1 Q. And, in fact, in 1992, as you can see on
2 GIPL/Southface Exhibit 3, Georgia Power testified that
3 designing RTP to contribute the same rate for fuel as
4 everyone else is the way Georgia Power would be sure,
5 quote, that the fuel costs paid by non-RTP users is not
6 affected by the existence of the RTP tariff.

7 A. (Witness Evans) Can you point me to that
8 exhibit?

9 Q. Yeah. Well, hopefully you have Exhibit 3 in
10 front of you.

11 A. (Witness Evans) I don't know that I do.

12 Q. If you don't -- I'm sorry about that,
13 Mr. Evans. I'm going to fix it.

14 A. (Witness Evans) Thank you. Yeah.

15 I apologize. Looking at this exhibit, it
16 says "Petition for rule nisi." Was that in 2004 or 2001?

17 Q. It's a document response from a hearing held
18 in 2000.

19 A. (Witness Evans) 2000. Okay.

20 Q. And in response to a document request,
21 Georgia Power quotes its own testimony from 1992.

22 A. (Witness Evans) Okay.

23 Q. And do you see here that Georgia Power
24 believed when RTP was created in 1992, that reimbursing
25 the fuel costs at the same rate that everyone else paid

1 was designed that way to be sure that non-RTP users would
2 not be affected by the existence of the tariff?

3 A. (Witness Evans) Yes, I see that. I believe
4 it was changed in 2010 because that proved not to be true,
5 and that by charging the embedded FCR rate resulted in,
6 for many, many, many -- I think it was for half the year,
7 the FCR rate was greater than the RTP price.

8 And so the way that accounting worked is the
9 fuel clause booked that revenue, regardless of what the
10 overall price was, which resulted in negative base revenue
11 being booked. And so when we went in for a base rate
12 case, all customers were not held harmless because there
13 was a substantial base revenue need to make up for that
14 negative base revenue.

15 So in 1992, that was the belief, and I think
16 for the subsequent 18 years, that proved not to be true,
17 which warranted the 2010 accounting change.

18 Q. Thank you for explaining that so clearly.

19 What I just heard you say is that what the
20 company realized is that if it didn't pull money out of
21 the fuel cost docket and put it in base rates, when it
22 came to a base case, its balances were going to be bad for
23 the RTP tariff.

24 A. (Witness Evans) Well, I think that was the
25 result. I think the driver of it was that we were

1 charging and recovering non-marginal costs through a
2 marginal rate, and that whenever you try to do that, it
3 will break.

4 And then, again, going back to -- and we can
5 point to many, many dockets where we've said this along
6 the way with RTP: It is not designed to recover fixed
7 embedded costs that are spread among all customers.

8 If you try to do that, it will break, like it
9 did, that led to the 2010 accounting change, and we don't
10 need a marginal rate. It -- that -- it should go away
11 then because you're not -- you're not sending the right
12 price signals and you don't need it. It's done that way
13 by design. Marginal costs recovered from marginal load.

14 Q. So you said that marginal cost is designed
15 not to recover fixed costs, but --

16 A. (Witness Evans) No. I said existing.

17 Q. That's right. You did. Existing fixed
18 costs. You agree, then, that fixed cost that an RTP
19 customer is causing should be part of that rate, correct?

20 A. (Witness Evans) That's correct. Yes.
21 Margin -- all marginal costs should be recovered.

22 Q. And do you agree that the RTP rate has been
23 used since its inception as a promotional rate to attract
24 new, large customers to Georgia?

25 A. (Witness Evans) I don't know about

1 promotional. I know it has been very successful in
2 attracting customers to Georgia. It's also been very
3 successful in allowing existing customers to utilize the
4 rate for benefits, such as shifting their load from
5 high-priced periods to low-priced periods, benefiting the
6 system, or just reducing their load during high-priced
7 periods.

8 While it is utilized by new customers
9 locating to the state, it is also utilized by our existing
10 customers. You do not have to have marginal load to
11 participate in RTP. You could sign up for RTP with
12 100 percent CBO and reduce your load during high-priced
13 hours and receive credits, which we have customers that do
14 that and benefit from that load response from the -- from
15 that dynamic pricing.

16 (The document referred to was marked for
17 identification as GIPL/Southface Exhibit 8.)

18 MS. WHITFIELD: May Mr. Sherrier approach
19 with what's been marked as Southface Exhibit 8,
20 which is Georgia Power's testimony from 2013 in
21 Docket 36989. And this exhibit includes excerpted
22 pages. It's not the whole transcript.

23 BY MS. WHITFIELD:

24 Q. I'd like to turn your attention, Mr. Evans,
25 to page 686, line 6 through 9.

1 A. (Witness Evans) I'm sorry. What lines did
2 you say?

3 Q. It's lines 6 through 9 on page 686.

4 A. (Witness Evans) Yes.

5 Q. And here do you see that Georgia Power --
6 this is Georgia Power's witness, Mr. Robert, who was vice
7 president or in charge of rates, but he was a rates guy.
8 And do you see here he's asked: Would it be fair to
9 characterize the RTP rates as a promotional device used to
10 attract new, large customers?

11 To which he responds: It certainly has been
12 used for that, absolutely.

13 Do you disagree with that?

14 A. (Witness Evans) No, it's been used to --
15 it's absolutely been used to attract customers to the
16 state of Georgia.

17 (The document referred to was marked for
18 identification as GIPL/Southface Exhibit 9.)

19 BY MS. WHITFIELD:

20 Q. I'd also like to turn your attention to
21 GIPL/Southface Exhibit 9, which is Georgia Power's
22 testimony in the 2022 rate case.

23 A. (Witness Evans) Pardon me. Do I have that?

24 Q. You don't yet, nope.

25 A. (Witness Evans) Okay.

1 Q. You will have it in just a moment.

2 This is Georgia Power's 2022 rate case
3 testimony in Docket 44280, and GIPL/Southface Exhibit 9 is
4 excerpted pages. And for this one, I turn your attention
5 to what is page 12 of your testimony, Mr. Evans, lines 8
6 through 9 -- actually, lines 6 through 9, in which you
7 describe here that if more costs were shifted to RTP, it
8 would significantly decrease the appeal of the rate to
9 current and future customers. And you call the RTP rate,
10 quote, a critical rate for large economic development
11 customers that are considering locating, relocating or
12 expanding operations in Georgia; correct?

13 A. (Witness Evans) Yes, that's correct. I
14 mean, I think it's simple as shifting costs, increasing
15 the rate whenever you're competing against other
16 jurisdictions and other states for new customers that
17 locate to Georgia to bring jobs and economic development,
18 that increasing the price --

19 Q. Are you also aware that Georgia Power is
20 justified giving promotional rates to RTP customers, in
21 part, based on the demand response value those customers
22 provided?

23 A. (Witness Evans) Can you point me to that?

24 Q. Yes, I can.

25 (The document referred to was marked for

1 identification as GIPL/Southface Exhibit 10.)

2 MS. WHITFIELD: Mr. Sherrier, if you could,
3 please provide GIPL/Southface Exhibit 10. This is
4 Georgia Power's testimony in the rule nisi Docket
5 in 2000. That is Docket 11708-U.

6 A. (Witness Evans) I apologize if you said it.
7 Could you point me to the page again.

8 BY MS. WHITFIELD:

9 Q. I don't think I did say it. It's page 9,
10 lines 24 -- well, it's probably best if you start a few
11 lines up from that. We're on line 21, where it says: As
12 a result of this dynamic interaction of a large group of
13 customers, Georgia Power can depend on a consistent level
14 of response that effectively becomes the equivalent of a
15 generating resource when conditions worsen and RTP prices
16 rise.

17 Do you see that?

18 A. (Witness Evans) I do.

19 Q. And, in fact, at that time, in 2000, the RTP
20 price response provided 328 megawatts for a typical peak
21 day response; correct?

22 A. (Witness Evans) I see that.

23 Q. And that, Georgia Power testified, prevented
24 the need to construct more generation; correct? That's
25 line 28.

1 A. (Witness Evans) Thank you. And it says it
2 prevents the need to construct similar megawatts of
3 generation.

4 Q. Correct. And then if you go down the page to
5 line 44, it further is talking about demand response and
6 explaining how this demand response demonstrates that the
7 concept behind the development of the RTP tariff is
8 performing as it was intended.

9 Do you see that?

10 A. (Witness Evans) Yes.

11 Q. So at present day, RTP is still a promotional
12 device; correct?

13 A. (Witness Evans) It's still a rate offered to
14 both existing and new customers, yes.

15 Q. But the amount of demand response that it
16 offers, which allows us to forgo buying new generation, is
17 less than half of what RTP customers were providing in
18 2000.

19 A. (Witness Evans) Where do you -- can you help
20 me with that math?

21 Q. Absolutely.

22 (The document referred to was marked for
23 identification as GIPL/Southface Exhibit 11.)

24 Q. Take a look, please, at 11, what has been
25 marked as GIPL/Southface Exhibit 11. This document is

1 Georgia Power's response to data request STF-PIA-1-7, in
2 last year's All-Source RFP docket.

3 A. (Witness Evans) Yes.

4 Q. And if you turn to the third page of that
5 exhibit --

6 A. (Witness Evans) Okay.

7 Q. -- you will see the demand response that is
8 attributed to the RTP day-ahead customers and the RTP
9 hour-ahead customers.

10 Do you see that?

11 A. (Witness Evans) I do.

12 Q. Okay. And in total, you see that the RTP
13 tariff is credited with 127 megawatts of demand response
14 to avoid buying new generation.

15 A. (Witness Evans) So these numbers are very
16 different from what the 2000 testimony says. And they do
17 not represent the same thing at all.

18 Q. Great. Explain that to me.

19 A. (Witness Evans) Sure. One is on a typical
20 peak day, so that is a single day's response that's
21 expected from the RTP rate.

22 This is the capacity equivalent on a winter
23 and summer basis, which says when that response occurs
24 throughout the year -- so it's a response throughout the
25 entire year -- cross-reference with the capacity value of

1 when that response happens. In addition, the response
2 listed here is that response expected above the response
3 seen in the historical forecast.

4 So this is a response beyond what we have
5 seen historically. Responses seen historically for
6 historical prices is already embedded in the load forecast
7 itself. These numbers sit on top of that.

8 So there is a passive response, which is part
9 of our regression models of load and price signals that
10 bake into our standard forecast. This is looking at
11 forward-looking RTP prices of the additional response we
12 should expect on top of that that we've historically seen.

13 So one, the 2000 document, references a
14 single day, and the total response seen. And again,
15 that's 25 years ago. What we have here is a planning
16 version that has to be viewed in combination with what's
17 already seen in the forecast.

18 Q. So if you look back at the 2000 testimony,
19 page 9, line 42, you'll see that the single-day value they
20 actually describe as 864 megawatts.

21 A. (Witness Evans) Yes. That is a single year
22 historical peak actual value.

23 Q. That's right.

24 A. (Witness Evans) And as we know, our
25 forecasts are based on weather normal. And so if you were

1 to look, going into the future, whenever RTP prices are
2 going to be substantially more than they were in this
3 year, and have been historically, we would expect the
4 response to be more. However, if it is not -- and this is
5 the key component of RTP -- they are paying the cost
6 incurred for that.

7 A customer has the option. There is no
8 obligation under RTP to respond. It is to send the
9 appropriate price signal to customers such that they can
10 evaluate that with their own economics of their business
11 and make the determination whether they should shed load
12 and avoid that cost or continue to produce and incur it.

13 Q. I also wanted to note that I realized that I
14 should do this a bit out of context, but these demand
15 response capacity numbers are the numbers that are
16 included in Georgia Power's capacity tables, in which it
17 includes all of its embedded costs, historic and
18 projected, of how it's going to meet the needs of the
19 system.

20 So I suppose I would ask, with a little more
21 time, a hearing request if Georgia Power could provide
22 updated numbers, if needed, to provide an apples-to-apples
23 comparison, or not, if that's not appropriate.

24 A. (Witness Evans) Okay.

25 Q. Thank you.

1 Staff's analysis and their testimony, the
2 Newsome panel, page 57, lines 3 through 4, demonstrated
3 that when large data center growth was removed from
4 Georgia Power's modeling software, Aurora, fuel cost per
5 megawatt hour would be about 5 to 11 percent lower in
6 2028.

7 Are you familiar with that testimony?

8 A. (Witness Evans) I'm sorry. I was moving the
9 stack of documents off my test -- can you repeat the page
10 number in reference?

11 Q. Yes. It's the Newsome panel, page 57, lines
12 3 through 5.

13 A. (Witness Evans) Yes.

14 Q. Do you want me to repeat my question?

15 A. (Witness Evans) Yes, please.

16 Q. Are you familiar with staff's analysis that
17 demonstrated when large data center growth was removed
18 from Georgia Power's modeling software, Aurora, that fuel
19 costs per megawatt hour were reduced by 5 to 11 percent in
20 2028?

21 Are you familiar with this testimony, you,
22 Mr. Evans, or anyone on the panel?

23 A. (Witness Evans) I am.

24 Q. You didn't offer any rebuttal to this
25 testimony in your prefiled rebuttal testimony, did you?

1 A. (Witness Evans) No. We had a hard time --
2 and I think this came across in cross yesterday. We had a
3 hard time figuring out where it came from, I think, and
4 it's helpful, the testimony yesterday. That was a
5 different data request than the one referenced on 8 was
6 used. So -- but, again, I think -- and I think I said
7 this earlier. We understand that costs go up as you serve
8 more load. So we'll take -- we'll take that foundation
9 as -- as yes.

10 Q. Okay. Moving on from RTP, I think, if we
11 could turn to page 4, lines 21 of your testimony. Here
12 you describe -- essentially you're describing updates to
13 your fuel costs expected in the projected period and the
14 under-recovery balance in the projected period.

15 So at page 5, lines 7 through 8, you testify
16 that the under-recovery balance is projected to be
17 significantly higher than you -- than you would have
18 expected during your direct testimony; correct?

19 A. (Witness Houston) Yes. If we were to
20 actualize for natural gas prices and actualize for costs
21 subsequent to when we filed, yes, that's correct.

22 Q. Okay. I think you may have answered my next
23 question. Your testimony says that this update is a
24 combination of two updates. Is that the -- primarily the
25 cost from winter storm fern being one, and then the other

1 being the updated price in the intervening period?

2 A. (Witness Houston) Yes. Winter Storm Fern,
3 we're just actualizing for all costs through that period,
4 which included Winter Storm Fern and then the natural gas
5 price update as well.

6 Q. What's the impact to the projected Part-B
7 rate as a result of this change?

8 A. (Witness Houston) Well, I think the Part-B
9 rate is stated here, but it's trade secret.

10 Q. I'm referring to the -- I see cost. I might
11 be missing it. Can you point me to the line -- the page
12 and line.

13 A. (Witness Houston) Well, understanding your
14 question correctly, line 8, where we say FCR-27 Part-B
15 balance --

16 Q. Oh, yes.

17 A. (Witness Houston) -- as of May?

18 Q. Yes. So I'm seeing the -- the total cost of
19 that balance. I'm curious. You had provided earlier that
20 the FCR-27 projected Part-B rate would be .1423 in the
21 summer and .1415 in the winter. I'm wondering how that is
22 shifted in light of this update. And if you've filed this
23 and I've missed it, that's -- let me know that too.

24 A. (Witness Houston) Just to be clear, this
25 update is not reflected in our request. This is just for

1 informational purposes.

2 Q. Okay. So you're not -- you're not changing
3 the Part-B rate that you are requesting as a result of
4 these updated costs?

5 A. (Witness Houston) That's correct. If we
6 were to update for this number, that would actually be an
7 increase in the rate.

8 Q. Correct. Okay. Thank you. And on page 4,
9 line 20, same question, essentially. Here you say you've
10 incorporated the latest natural gas price forecast, and
11 the update to the FCR-27 budget, and that average price is
12 2.8 percent lower.

13 What is the impact of the Part-A rates as a
14 result of prices being lower than you expected?

15 A. (Witness Houston) I don't have that
16 information available, but if you were to update for all
17 events that have happened, including the natural gas price
18 decrease and the actualization of cost, you get this
19 number here that's in line 8, which, if we were to update
20 for that, would be an increase in the rates.

21 Q. I guess I'm wondering about the
22 forward-looking cost, though. So you've suggested that
23 the -- on page 4, line 21 to 22, you say that the latest
24 price forecast on average is 2.8 percent lower. So what
25 I'm wondering is, shouldn't that mean that the Part-A

1 rate, the forward-looking projected rate, would then also
2 be lower?

3 A. (Witness Houston) Yes, that -- that is
4 correct. The forward rate would also be included. And I
5 think, once you take that and meet it against the update
6 to Part-B, you'd still have an increase in the request.

7 Q. I see. Okay. So when you cancel those two
8 out, you lead to an increase. Have you provided an update
9 of the FCR-27 budget reflecting these updated costs and
10 the canceling out?

11 A. (Witness Houston) No, we have not.

12 Q. Could you please provide an updated FCR
13 budget reflecting the updated projected costs? I would
14 offer that as a hearing request. Perhaps not the whole --
15 not the whole budget, but the numbers behind the impact.
16 There's a lot of play here and you are --

17 MR. HEWITSON: But that's not part of our
18 request. That's what he just testified.

19 MS. WHITFIELD: But what I'm seeing is that
20 you're projecting that prices are going to be
21 2.8 percent lower, and you're saying, but we're not
22 going to lower our request. I'd like to know why.

23 MR. HEWITSON: Well, he just answered that
24 question. Because when you net that out with
25 Part-B, you get an increase, so we're not going

1 to -- we're not going to update it, so that there
2 isn't an increase to our request, so we're meeting
3 our request at a lower level.

4 MS. WHITFIELD: But you've obviously done the
5 financials to make that determination. Can you
6 provide those financials that you did to make that
7 determination that it nets out?

8 MR. HEWITSON: We can provide the netting --

9 MS. WHITFIELD: Because at the --

10 MR. HEWITSON: -- but we're not changing our
11 request.

12 MS. WHITFIELD: I understand.

13 MR. HEWITSON: Okay.

14 MS. WHITFIELD: I understand. I got that.

15 MR. HEWITSON: You want to check our math.

16 MS. WHITFIELD: Yes. I want to -- I want to
17 see the -- I want to see the math, yeah.

18 Thank you. Nothing further. Thank you.

19 COMMISSIONER HUBBARD: Could I ask a
20 follow-up question, if I may, Mr. Evans? So a
21 little bit of a preface. I mean, you mentioned
22 that the firm transportation costs are not included
23 in the RTP credit to fuel because it's a fixed
24 cost, I think.

25 And then you also mentioned that the RTP

1 credit exceeds costs because there's a delta
2 between that system lambda and then the actual
3 units set are dispatched. And so there's a delta
4 there and that benefit accrues. And that's maybe
5 one way that these firm transportation costs are
6 accounted for.

7 You also mentioned, though -- and then
8 they -- they come back into the base rates, and
9 that's where that benefit flows to. But you
10 mentioned that those benefits are in the form of a
11 marginal average replacement cost, I think.

12 Do you recall that marginal average
13 replacement cost for firm transportation? That's
14 where that --

15 MR. EVANS: Let me -- and I might have -- I
16 might need to clear that up a little bit.

17 COMMISSIONER HUBBARD: Please.

18 MR. EVANS: So the average marginal
19 replacement cost is the calculation to determine
20 the RTP fuel credit. The amount above that,
21 that -- that -- the delta between lambda and that
22 RTP fuel credit we refer to as capital
23 substitution.

24 COMMISSIONER HUBBARD: Yes.

25 MR. EVANS: That's the amount, the

1 \$200 million in 2001 that I referenced earlier.
2 That amount is on the base set. So that is just
3 our -- our highest economic unit running in every
4 hour. That is not an average. The average of the
5 marginal units occurs for the RTP credit
6 calculation.

7 COMMISSIONER HUBBARD: Right. But in terms
8 of calculating that benefit that -- that average
9 marginal replacement cost, is that based on a -- on
10 a gas peaker or what does that average marginal
11 replacement cost? I mean, I guess it --

12 MR. EVANS: So the average marginal
13 replacement cost is looking at every Georgia unit
14 running in every hour, regardless of -- of gas,
15 coal, every dispatchable unit running, plus system
16 purchases and sales, because, in any given hour, we
17 might be leaning on the system and making purchases
18 on the system, or you might be a net seller to the
19 system.

20 So we're taking into account those -- those
21 pool purchases and sales hour by hour, plus the --
22 every Georgia unit running. And that is the
23 average. So it's not related just to a gas peaker.
24 It's -- it's our nuclear units running, right?
25 It's our hydro units running. It's every Georgia

1 dispatchable unit running.

2 COMMISSIONER HUBBARD: For the firm
3 transportation costs that are included in the base
4 rates, that -- those firm transportation costs
5 almost -- since we're talking about gas
6 transportation, they're based on the premise that
7 you would be adding -- the incremental or marginal
8 unit that you would be adding would be a gas
9 peaker; is that right? We're still working under
10 that premise?

11 MR. EVANS: So the premise of the RTP rate in
12 total, yes. Right? So it's looking at, as I
13 mentioned earlier, the five -- the five components.
14 That -- one of those components is our reliability
15 cost, our marginal cost of generation; right? And
16 that marginal cost of generation can get to, during
17 times of scarcity, like we're in now, the cost of a
18 CT.

19 Now, that does not mean, as we -- as we know,
20 right, that through prudent resource planning that
21 we're going to build a CT; right? But if you build
22 something besides the CT that's going to lower
23 your -- your lambda costs, right, at the expense of
24 additional fixed costs, like additional capital
25 costs for that CC or that firm transportation.

1 So that is where that capital substitution
2 comes in to give credit to all of our other
3 customers by the revenue received from RTP
4 customers at lambda, which is above that fuel cost.

5 COMMISSIONER HUBBARD: Right. And that
6 generation component was based on, what, the top 50
7 hours you mentioned, transmission 300 hours?

8 MR. EVANS: On a weather normal basis, that's
9 how the price signal is sent. The cost itself is
10 a -- is an annual cost, right? It's just in the
11 design of RTP, how concentrated does that price
12 signal need to be sent to reflect the underlying
13 costs.

14 COMMISSIONER HUBBARD: Okay. Well, I guess
15 what I'm getting at is that that benefit, that
16 incremental capacity that would be needed is based
17 on a gas peaker, but given all of the demand and
18 the market for gas peakers, that cost is probably
19 significantly more than you may be accounting for.

20 And I also know that dispatchable solar plus
21 battery storage can also be that peaking unit.

22 So I think what I'm getting at is that there
23 may be a need to update some of the information
24 that's used to calculate the benefits from firm
25 transportation, plus a gas peaker versus

1 alternatives, or even that gas peaker and firm
2 transportation with updated costs today.

3 MR. EVANS: Yes, sir. And our assumptions
4 are updated annually. That cost of that capacity
5 cost that I referenced is updated every single
6 year, based on current projections. And as you
7 would expect, right, during times of surplus, like
8 we saw in the 2000s and 2010s, right, the cost of
9 capacity was low; right? There's a variety of
10 market conditions that resulted in that.

11 As we know right now, we are moving into a
12 period of scarcity and those capacity costs are
13 increasing, as you would expect.

14 COMMISSIONER HUBBARD: The last question. On
15 the capacity for non-dispatchable power purchase
16 agreements, are we still -- are you still including
17 the value of any capacity in those power purchase
18 agreements? I see RECs energy. Those are
19 typically included in power purchase agreements.
20 But are capacity values explicitly included as well
21 in power purchase agreements for solar, for
22 example?

23 MR. EVANS: Not familiar with how our PPAs
24 are accounted for that have capacity payments.

25 MR. HOUSTON: Yeah, I'm not aware of any

1 solid PPAs that have capacity payments, but they
2 made it. But I'm just not aware of that.

3 COMMISSIONER HUBBARD: I think I've seen --
4 it was just a few weeks ago when there was a
5 transfer of a PPA. It included RECs energy and
6 capacity, and this was an older solar PPA.

7 But I guess what I'm driving at is that
8 there's a value to that capacity, apparently, if
9 it's captured in a PPA, but it's not captured, for
10 example, in an RFP, an All-Source capacity RFP.
11 Those are not considered to be capacity-providing
12 resources and are not included.

13 So I'm just drawing that distinction that
14 PPA, solar PPAs and others that are
15 non-dispatchable PPA as part of the FCR, appear to
16 have a value capacity. It's included in some of
17 the contracts, but then it doesn't appear, for
18 example, in an All-Source capacity RFP. Not a
19 question. Just a comment. That's all.

20 CHAIRMAN SHAW: All right. Any other
21 questions?

22 MS. WHITFIELD: Mr. Chair, if I could move in
23 GIPL and Southface Exhibits 1 through 4, 8 through
24 11, and 14 through 16, into the record, please.

25 CHAIRMAN SHAW: So marked.

1 (GIPL/SOUTHFACE Exhibits 1 through 4, 8
2 through 11, and 14 through 16 were admitted into
3 evidence.)

4 MS. WHITFIELD: Thank you.

5 CHAIRMAN SHAW: I'm assuming that Mr. Baker
6 and Ms. Ariza cross for this panel. So we'll go
7 ahead and take a break and have everybody back at
8 1:00.

9 Panel, you can be excused.

10 (Whereupon, a lunch break was taken.)

11 CHAIRMAN SHAW: Welcome back. Hope everyone
12 had a chance to grab a quick bite to eat. We'll
13 continue with our hearing on the second day of
14 Docket No. 56765.

15 We have -- Panel, I'll just remind you,
16 you're still under oath. And we'll start where we
17 left off, and I'll call up -- MARTA is up next.

18 MR. BAKER: Thank you, Mr. Chairman.

19 CROSS-EXAMINATION

20 BY MR. BAKER:

21 Q. Good afternoon, Panel.

22 A. (The Panel) Good afternoon.

23 Q. It's going to be very quick for me, but I
24 think, Mr. Evans, you may have answered this earlier
25 today, but I just would like a clarification, just make

1 sure I get it absolutely clear.

2 The question is, is the cost of hedging
3 recovered from all customers?

4 A. (Witness Evans) So the cost of hedging is
5 not included in the RTP FCR calculation because it is not
6 an average marginal replacement cost by definition.

7 Q. Okay. And that would be the only category of
8 customers where it's not recovered; is that correct?

9 A. (Witness Evans) I believe so. I mean, it's
10 included in the other standard FCR tariffs.

11 Q. Okay. All right. I don't know if this --
12 the Panel knows this answer, but I have a general question
13 to the Panel is, do you know how many megawatts of the new
14 large load contracts have been signed as of today, just
15 approximately?

16 A. (Witness Evans) Yes. We have, I believe,
17 around 9,600 megawatts of signed large load contracts.

18 Q. And this isn't just commitment. This isn't
19 just the two-page commitment. This is a contract, full
20 contract?

21 A. (Witness Evans) That's correct.

22 Q. Okay. All right. Thank y'all very much.

23 MR. BAKER: Thank you, Mr. Chairman.

24 CHAIRMAN SHAW: Thank you.

25 Resource Supply Management.

1 (No response.)

2 CHAIRMAN SHAW: Sierra Club, SACE, NRDC.

3 MS. ARIZA: Thank you.

4 CHAIRMAN SHAW: Afternoon.

5 MS. ARIZA: Good afternoon.

6 CROSS-EXAMINATION

7 BY MS. ARIZA:

8 Q. Good afternoon, Panel.

9 A. [The Panel] Good afternoon.

10 Q. For the record, my name is Isabella Ariza,
11 and I represent Sierra Club, SACE, and NRDC.

12 Let me start by asking you some questions
13 about coal diversity. You got some questions from
14 Mr. Collado about your decision to pursue coal diversity,
15 but, to be clear, the point of diversity in any
16 competitive market is to take advantage of the lowest cost
17 supply available, is it not?

18 A. (Witness Ohlson) Ask me that again. I'm
19 sorry.

20 Q. The point of diversity in any market is to
21 take advantage of lower costs from the resources that
22 you're purchasing.

23 A. (Witness Evans) Actually, the point of
24 diversity would be reliability. So if we were truly
25 chasing lowest cost, we could single source our coal

1 product and only purchase from the cheapest provider.

2 That would be -- it would be very imprudent in terms of
3 from a reliability perspective for a number of reasons.

4 So I think diversity is more of a reliability
5 component. And then once we factor in diversity, then we
6 absolutely seek to purchase, among that diverse group, at
7 the lowest reasonable cost.

8 Q. So are you saying that in the name of
9 diversity in your coal supply, you're willing to pay
10 higher prices for coal indefinitely without a cap?

11 A. (Witness Evans) So I've not said anything
12 about without a cap. But I have said that we would not
13 want to buy from a single, sole, least cost producer,
14 because we do think that diversity is important for a
15 number of reasons: For the reliability of our -- of our
16 deliveries to support the power plant which supports our
17 customers, and it's an example of where reliability does
18 have a cost.

19 I mean, no one has argued that purchasing
20 from multiple suppliers was not a prudent decision. So I
21 think we all agree that at some level diversity is
22 important.

23 Q. I think you're right that staff agrees that
24 some level of diversity is important. And you said before
25 today that you limited your purchases to 9 percent of this

1 premium priced coal, but that you were not comfortable
2 with staff suggestion -- suggestion to set a percentage as
3 a cap; is that correct?

4 A. (Witness Evans) That is what I said, yes,
5 correct.

6 Q. Can you state which guardrails would you be
7 comfortable with, or should the Commission expect you to
8 continue to make these decisions on an ad hoc basis?

9 A. (Witness Evans) So I would not characterize
10 it as ad hoc. I would characterize it as the
11 responsibility to make prudent decisions in our purchasing
12 across a number of suppliers and the multiple basins that
13 we purchase from for each of the two coal facilities.

14 I'd be willing to have a conversation about
15 guidelines and the reasons for the diversity, the
16 importance of it. I can give many examples of
17 transportation congestion concerns, supply chain
18 disruptions in terms of flooding and rail lines.
19 Producers that have either systematic or longwall moves,
20 meaning that they move equipment in the mines, or just
21 like the a roof collapse that occurred recently at one of
22 the mines that caused there to be a loss of production.

23 Those are some of the reasons why having a
24 diverse portfolio of purchases is important for our
25 customers, so that we can continue to deliver coal to the

1 plant in the timely manner that we do. And again, having
2 that reliability does have a cost.

3 So having that conversation, I think we're
4 very comfortable with in explaining the urgency of it, the
5 way markets move, the way the price in the different
6 basins can fluctuate. They're not necessarily related to
7 each other at all times. Leads me to say that I'm not
8 comfortable today telling you what percentage of diversity
9 or what cost of diversity I think is prudent for our
10 customers.

11 Q. Okay. Can we agree, at least, on the fact
12 that you're not in the business of making sure that those
13 particular coal mines stay in business?

14 A. (Witness Evans) So are you -- can you ask
15 that a different way, please?

16 Q. Can we agree, at least, that it's not Georgia
17 Power's objective mission or responsibility to make sure
18 that each of the coal mines that supply you with coal stay
19 in business?

20 A. (Witness Evans) I would say it this way: It
21 is in Georgia Power's customers' best interest that they
22 have a competitive, diverse supply of coal to purchase
23 from. So I think the competitive solicitation process is
24 important to driving costs down and making sure that we
25 don't overpay for the price of coal.

1 So it is important for us to have viable
2 partners in the different basins. And in that sense, I do
3 think it's important that the mines stay viable and that
4 there's multiple production facilities available.

5 Would we -- I think -- I think, to your
6 question, to be fair, I think -- would we spend customer
7 money in order just to keep one afloat? I mean, no, no,
8 no, that that is not the intention at all.

9 Q. Okay. Thank you.

10 Now, I'll ask you some questions about coal
11 generation. In your direct testimony -- and I'm asking
12 you to -- in this rebuttal panel, because your colleagues
13 yesterday said that this was a question for you, in your
14 direct, you discuss Bowen's designation as a must-run
15 unit; correct?

16 A. (Witness Evans) So I believe in the -- I
17 believe in the direct testimony Bowen may have been
18 referred to as a must-run unit at times.

19 Q. Can you state for the record what it means to
20 designate a coal unit as must run?

21 A. (Witness Evans) So there could be multiple
22 reasons. Are you asking me to name a specific time that
23 it was a must-run?

24 Q. Just a definition of what having a unit
25 designated as must run means. Does it mean it runs every

1 hour of every day, or is there a time period?

2 A. (Witness Evans) This is how I would answer
3 it: It's a common characteristic of electrical networks
4 that, at times, generation is required in certain areas to
5 maintain system reliability, system stability. And I'd
6 say that's especially true near large load centers.

7 I would just make sure everyone remembers
8 Atlanta is a very large load center, and Plant Bowen is in
9 very close proximity. I mean 40, 50, 60 miles. So I
10 think there would -- it would be a surprise if the system
11 did not ask for Plant Bowen to be available to support
12 system needs at times.

13 Q. So at times the company determines that a
14 unit like Bowen, regardless of whether there's other
15 cheaper options available, must run; is that correct?

16 A. (Witness Ohlson) So at times the system
17 stability may require any generating unit on the system to
18 be available in online. And that would be true for Plant
19 Bowen as well, yes.

20 Q. Okay. And separately, your testimony
21 recognizes that one of the primary drivers of higher fuel
22 expenses is higher levels of coal generation; correct?

23 A. (Witness Ohlson) Can you say that a
24 different way? I'm not sure -- I'm not sure I can say yes
25 to the way you said that.

1 Q. Let me see if I can find the page.

2 But generally you've stated today and
3 recognized, I think, in response to commissioners, that
4 one of the primary drivers of higher fuel expenses in the
5 historic period was higher levels of coal generation.

6 A. (Witness Ohlson) Are you referring to high
7 prices or high inventory?

8 A. (Witness Houston) Yeah, I can answer that.
9 That is correct. Also, higher coal generation in the
10 forecasted period as well.

11 Q. Okay. And I was going to ask about forecast
12 period too. You will continue to increase the percentage
13 of coal that you will use over the next three years;
14 correct?

15 A. (Witness Houston) Yes. That was in the
16 direct testimony.

17 Q. It seems like if you have high fuel costs due
18 to higher-than-expected coal operations, the last thing
19 you would want is to categorize your coal units as
20 must-run; isn't that correct?

21 A. (Witness Ohlson) So I would offer again that
22 must-run would typically, to my knowledge, not be based on
23 an economic -- true economic decision, but rather a system
24 reliability, system stability decision, which, when we say
25 not economic, that means outside of that constraint, it

1 would not have been running.

2 But it is economic if you factor in the
3 system reliability, what that would look like, if it
4 called on a unit, like a Plant Bowen, and it was not able
5 to meet the need. So the repercussions could be much
6 greater.

7 Q. But just in putting aside reliability for a
8 minute and assuming a perfect world in which other
9 resources were available, you don't want to use a resource
10 that is designated as must-run if there are cheaper
11 options available?

12 A. (Witness Ohlson) I'm sorry, but I don't
13 think I'm gonna answer a question that says "putting aside
14 reliability for the moment," because that's not something
15 that we can do.

16 Q. I don't mean ignoring the fact that you need
17 to provide reliable services, just that to achieve your
18 mission to ensure low rates, you would rather not have a
19 unit that you -- that is expensive designated as must-run.
20 Is that not adequate characterization?

21 A. (Witness Ohlson) Which is why I think we
22 can -- we're going to consider reliability. We're going
23 to consider system constraints and unit constraints. And
24 then we're going to make the decision to commit units,
25 which means have them on an -- online and available, or

1 dispatch them, which means move them to their different
2 load positions to achieve the lowest cost, once those are
3 their characteristics have been met.

4 Q. Okay. I'll ask you some questions now about
5 Bowen's minimum downtime in Michael Goggin's analysis.

6 A. (Witness Ohlson) Yes.

7 Q. Yesterday, during cross-examination,
8 Mr. Hewitson stated -- and you stated earlier today that
9 once Bowen comes online -- sorry -- offline, the minimum
10 amount of time it needs to remain offline is seven days;
11 is that correct?

12 A. (Witness Ohlson) That is correct.

13 Q. Does Bowen require a seven-day downtime
14 because it's an older coal plant, or because it would
15 otherwise require capital investment, or is there another
16 reason why there's such a long downtime?

17 A. (Witness Ohlson) I'm not a plant operator.
18 I can't answer that. I can tell you that as long as I've
19 known about the minimum up and down times, it's been seven
20 days for both.

21 Q. Are you aware of any other coal plants in the
22 country that require such long minimum downtime?

23 A. (Witness Ohlson) I would not characterize
24 that as long for a coal plant. I would characterize that
25 is fairly standard.

1 Q. Are you aware that PJM's minimum downtime is
2 eight hours?

3 A. (Witness Ohlson) I'm not aware of using PJM.

4 Q. And you didn't provide --

5 A. (Witness Ohlson) Can you just clarify? That
6 was for a coal unit, a large central station coal unit had
7 eight hours of minimum downtime?

8 Q. Correct.

9 A. (Witness Ohlson) Okay. I -- that would be
10 surprising to me.

11 Q. Okay. And you didn't provide that minimum
12 downtime constraint in discovery, did you?

13 A. (Witness Ohlson) You'd have to show me. I'm
14 not aware of what we provided in terms of Bowen's
15 characteristics.

16 Q. Okay. And did you happen to run Mr. Goggin's
17 analysis, changing the minimum downtime to seven days?

18 A. (Witness Ohlson) No.

19 Q. Would it surprise you to learn that, with
20 that change, the reduction in the disallowance is less
21 than \$1 million?

22 A. (Witness Ohlson) You're saying -- I'm sorry.

23 Q. Oh, Mr. Goggin -- are you aware that
24 Mr. Goggin found that, given his analysis, \$152 million
25 should be disallowed from the uneconomic dispatch

1 operations at the coal plants?

2 A. (Witness Ohlson) So a \$1 million change from
3 his original estimate?

4 Q. Right. That's my question.

5 Would it surprise you to learn that with the
6 change of minimum downtime, seven days, the reduction in
7 the disallowance is less than \$1 million?

8 A. (Witness Ohlson) I don't think it'd be
9 appropriate for me to comment on a model that he created
10 outside of our purview. And, you know, we disagree with a
11 lot of the assumptions and characteristics that we used in
12 that. So I'd rather not comment on what changes he's made
13 since then.

14 MS. ARIZA: Okay. No further questions.

15 Chairman Shaw, I just move my one exhibit
16 entered into the record. I'll have it marked as
17 Sierra Club, SACE, and NRDC Exhibit 12, since I
18 marked the testimony and exhibits as Exhibits 1
19 through 11.

20 CHAIRMAN SHAW: So marked.

21 MS. ARIZA: Thank you.

22 (The documents referred to was marked for
23 identification as SIERRA CLUB/SACE/NRDC Exhibit
24 12.)

25 (SIERRA CLUB/SACE/NRDC Exhibit 12 was

1 admitted into evidence.)

2 CHAIRMAN SHAW: Redirect.

3 MS. PRYOR: No redirect at this time. Thank
4 you. I would just ask that the Panel be excused.

5 CHAIRMAN SHAW: All right. Panel, thank you
6 for your time, and y'all can be excused.

7 THE PANEL: Thank you.

8 MS. PRYOR: To the extent I have not moved
9 their testimony into the record, I would ask that
10 it be moved into the record.

11 CHAIRMAN SHAW: So marked.

12 And I'll let you keep things going and call
13 up your next panel, please.

14 MR. HEWITSON: Georgia Power calls Mr. Earl
15 Berry.

16 Good afternoon, Mr. Berry. While you're
17 here, will you please remain standing and raise
18 your right hand.

19 Thereupon,

20 EARL BERRY,
21 having been duly sworn, testified as follows:

22 DIRECT EXAMINATION

23 BY MR. HEWITSON:

24 Q. Mr. Berry, please state your full name, your
25 employer and your responsibilities, for the record.

1 A. Yes. Earl Richard Berry, Vice President of
2 Engineering for Southern Nuclear.

3 Q. Mr. Berry, on April 23rd, did you prefile or
4 cause to be prefiled 17 pages of rebuttal testimony in
5 question-and-answer format in this FCR-27 docket?

6 A. I did.

7 Q. And are there any changes you need to make to
8 your prefiled rebuttal testimony?

9 A. There are none.

10 Q. If I asked you the same questions today under
11 oath, would your answers be the same as are found in your
12 prefiled rebuttal testimony?

13 A. Yes.

14 MR. HEWITSON: Chairman Shaw, the court
15 reporter was previously given a copy of Mr. Berry's
16 prefiled rebuttal testimony, and I now ask that the
17 rebuttal testimony of Mr. Berry be copied into the
18 record as if given here today.

19 CHAIRMAN SHAW: So marked.

20 (Whereupon, the prefiled direct testimony
21 of Earl Berry follows:)

REBUTTAL TESTIMONY OF
EARL BERRY
ON BEHALF OF GEORGIA POWER COMPANY
GEORGIA PUBLIC SERVICE COMMISSION DOCKET NO. 56765

I. INTRODUCTION

1 **Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.**

2 A. My name is Earl Berry. I am the Vice President of Engineering for Southern
3 Nuclear Company (“Southern Nuclear”). My business address is 3535 Colonnade
4 Parkway, Birmingham, Alabama 35243.

5 **Q. MR. BERRY, PLEASE SUMMARIZE YOUR EDUCATIONAL AND**
6 **PROFESSIONAL EXPERIENCE.**

7 A. I began my academic studies at the University of Kentucky, earning a Bachelor of
8 Science in Chemical Engineering in 2000. Following this, I pursued a Master of
9 Business Administration at National University. I started my career in the energy
10 industry in 2000 as a Process Engineer and Project Manager at Texaco (later
11 Chevron), where I led and supported multiple energy and emerging technology
12 projects, including gasification and hydrogen. Prior to joining Southern Nuclear, I
13 held engineering leadership positions in advanced energy and technology
14 organizations including Director of Engineering, Engineering Manager, and
15 Process Evaluation Manager for a series of energy startup companies.

16 In 2009, I joined Southern Nuclear and served in a series of progressively
17 responsible leadership roles including Chemistry Engineer, Rapid Response
18 Engineer, Engineering Components Supervisor, Manager of Site Projects, and
19 Engineering Systems Manager. I advanced to the role of Engineering Director in
20 2016, and Work Management Director in 2018. I hold an ANSI Senior Reactor

1 Operator certification, which further grounds my leadership experience in licensed
2 nuclear power plant operations. Beginning in June 2019, I served as the
3 Organizational Effectiveness Manager before I was seconded in February 2020 to
4 the Institute of Nuclear Power Operators (“INPO”) to serve as the Organization
5 Effectiveness Leader supporting industry-wide performance improvement. I
6 returned to Southern Nuclear in August of 2021 as the Governance and Oversight
7 General Manager, and in June of 2022, I became the Vice President of Engineering.
8 In this position, I am responsible for enterprise engineering governance, nuclear
9 safety, equipment reliability, regulatory compliance, and executive oversight of
10 engineering performance across the Southern Nuclear Fleet. I engage with the
11 nuclear industry and am the executive sponsor of industry initiatives in accident
12 tolerant fuel and digital modernization.

13 **Q. PLEASE DESCRIBE SOUTHERN NUCLEAR OPERATING COMPANY.**

14 A. Southern Nuclear is a subsidiary of Southern Company and operates two nuclear
15 electric generating plants on behalf of Georgia Power Company (“Georgia Power”)
16 and its co-owners: the Edwin I. Hatch Nuclear Plant located near Baxley, Georgia;
17 and the Vogtle Electric Generating Plant located near Waynesboro, Georgia. Plant
18 Hatch and Plant Vogtle are co-owned by Georgia Power, Oglethorpe Power
19 Company, the Municipal Electric Authority of Georgia, and the City of Dalton,
20 Georgia through Dalton Utilities. Southern Nuclear has been licensed to operate
21 Plant Hatch and Plant Vogtle since March 1997, when operating responsibility was
22 transferred from Georgia Power to Southern Nuclear. Southern Nuclear also
23 operates the Joseph M. Farley Nuclear Plant, located near Dothan, Alabama, for
24 Alabama Power Company.

25 **Q. MR. BERRY, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
26 **COMMISSION?**

27 A. No.

1 question, whether such causes could have been avoided through the application of
2 reasonable management decisions at the time of the event. The goal of identifying
3 possible causes of an event is quite different from evaluating whether the actions
4 or decisions in question were reasonable given the circumstances that existed at that
5 time. Often, these reports are based on information that was not available at the
6 time the underlying decisions were made or they omit key background information
7 or other general issues that were considered by the decisionmakers.

8 Further, Witness Reynolds only presents selected portions of the material included
9 in the reports, which provide insufficient context for the Commission's review. The
10 terminology utilized in such reports often has meanings that are specific to the goals
11 and ends of such reports. For example, "inadequate" connotes that the relevant
12 actions or decisions did not result in the desired outcome but does not mean that
13 the actions or decisions were unreasonable or reflective of a lack of diligence and
14 care by Company employees. Thus, to use these reports as Witness Reynolds has,
15 without proper context or independent analyses, risks misinterpreting or
16 misconstruing such reports and the actions taken in response to certain events. In
17 particular, the Root Cause and Apparent Cause reports typically do not delve into
18 the underlying basis or rationale for a decision, such as why an engineer, technician,
19 or operator took a particular action, but rather, summarily conclude that the decision
20 did not lead to the desired result.

21 **Q. DO YOU STAND BEHIND THE ACCURACY AND COMPLETENESS OF**
22 **THE REPORTS?**

23 A. Yes. I am extremely proud of the strength of our evaluative process as reflected in
24 these reports. I, along with all of Southern Nuclear's leadership, encourage
25 thorough and exhaustive analysis of these outages in order to identify every
26 possible corrective action that could have been taken to better inform practice and
27 process improvements to prevent such events from reoccurring. We apply a very
28 high standard to our causal analysis findings and corrective actions consistent with

1 nuclear industry measures of excellence. It is important to note, however, that the
2 purpose of post-event causal analysis is to find opportunities for improvement using
3 information that is available only after the event occurs. Accordingly, these
4 analyses intentionally apply a high standard and benefit from hindsight and are not
5 necessarily designed to assess whether decisions made prior to the event are
6 reasonable based on the information available at that time. We acknowledge that
7 not all processes are perfect and there are always opportunities for improvement
8 and the causal analyses bear that fact. However, the Company's efforts to
9 constantly improve our processes and performance should not be construed as
10 evidence of imprudence.

11 **Q. ARE THE CONCLUSIONS DRAWN IN THE REPORTS A SUBSTITUTE**
12 **FOR MANAGEMENT'S DECISION-MAKING PROCESS?**

13 A. No. Southern Nuclear management closely reviews the reports and engages in a
14 deliberative process to implement any necessary corrective actions. Southern
15 Nuclear management must also balance numerous other considerations and
16 challenges in determining the appropriate course of action (*e.g.*, timing, technology
17 interplay, cost, etc.).

18 **Q. DOES SOUTHERN NUCLEAR EXPECT AND ACCEPT THAT FORCED**
19 **OUTAGES WILL OCCUR?**

20 A. No, absolutely not. Southern Nuclear expects complete operational excellence. We
21 strive to have zero mistakes and no unplanned or forced outages, and our employees
22 are consistently reminded of this objective, along with the overriding goal of safety
23 that controls every decision made at the plants. This goal is exactly why Southern
24 Nuclear conducts Root Cause and Apparent Cause analyses without regard for cost
25 or what was actually or reasonably known at the time. Southern Nuclear intends to
26 utilize every resource and every avenue for improvement that is available. My
27 testimony is not intended to trivialize the outages that occurred or minimize the
28 importance of the additional fuel costs incurred. Rather, the purpose of this

1 testimony is to place each event in its proper context and focus attention on the facts
2 and circumstances as they existed at the time of each incident, including key
3 decisions leading up to these events.

4 **Q. PLEASE ELABORATE ON THE SIGNIFICANCE OF THE FACT THAT**
5 **PIA STAFF ONLY IDENTIFIED FIVE OUTAGES FOR RECOMMENDED**
6 **DISALLOWANCE.**

7 A. While it is the Company's position that none of these outages were the result of
8 imprudent actions or decisions, the fact that Witness Reynolds only recommended
9 disallowance of replacement fuel cost for five outages is a testament to the high
10 level at which the Company operates these plants. Over the three-year period
11 covered by this proceeding, Plants Hatch and Vogtle have contributed 64,802,106
12 megawatt hours ("MWh") of low-cost, emission free generation to Georgia
13 Power's customers. Over that same time, Witness Reynolds only identified five
14 outages for potential disallowance, representing 831,229 MWh of lost generation
15 (or just 1.3% of the total generation during the historic period). I believe that the
16 excellent operation of our plants over that time should be considered by the
17 Commission as it reviews these particular outages.

18 **Q. DOES THE EFFECTIVENESS OF SOUTHERN NUCLEAR'S FLEET**
19 **FIGURE INTO THE CONTEXT OF THE INCIDENTS DISCUSSED IN MR.**
20 **REYNOLDS' TESTIMONY?**

21 A. Yes. Southern Nuclear's excellent and cost-effective performance provides the
22 context necessary to truly understand why the decisions that Southern Nuclear
23 made—based upon known facts and competing priorities at the time, as the
24 prudence standard requires—were reasonable. In particular, Southern Nuclear has
25 a demonstrated history of success in reducing the impact of unplanned outages.
26 Although there are no criteria that measure "prudence," there are metrics for the
27 reliability of nuclear plants. One of these metrics is called the Capacity Factor, a
28 measure of how often a power plant runs over a specific period of time. The

1 Capacity Factor is expressed as a percentage and calculated by dividing the actual
2 unit electricity output by the maximum possible output. This ratio indicates how
3 fully a unit's capacity is used. The Capacity Factor of Southern Nuclear's Georgia
4 fleet (not including Vogtle Units 3 and 4) over the previous three years is 93.63%.
5 This is in line with the average of 93.2% for nuclear power generation in the United
6 States.¹ Vogtle Units 3 and 4 do not have three full years of service at this point
7 and, as previously discussed with the Commission, Unit 4 was operated at a lower
8 power level to extend fuel life.

9 **Q. WHY ARE THESE OBSERVATIONS NECESSARY TO ASSESS THE**
10 **REASONABLENESS OF SOUTHERN NUCLEAR'S ACTIONS IN THESE**
11 **INCIDENTS?**

12 A. The success of Southern Nuclear's fleet on metrics of cost, production, efficiency,
13 and safety could not be achieved without a culture of safety, reliability, and sensible
14 decision making that benefits Georgia Power's customers. Each of these metrics
15 (cost, production, efficiency, safety, etc.) is a priority that Southern Nuclear has an
16 obligation to weigh for the benefit of customers. The Root Cause and Apparent
17 Cause reports, which Witness Reynolds relies upon, are not written within this
18 framework. Rather, these reports go above and beyond to find *any* possible causes
19 of the incident analyzed, specifically with intent to identify means of improvement
20 going forward.

¹ See Table 6.07.B Capacity Factors for Utility Scale Generators Primarily Using Non-Fossil Fuels, U.S. Energy Information Administration, *available at* https://www.eia.gov/electricity/monthly/epm_table_grapher.php?t=epmt_6_07_b

III. PLANT HATCH

A. PLANT HATCH UNIT 2 EVENT 26 (09/13/2025)

Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT OCCURRED AT PLANT HATCH UNIT 2 ON SEPTEMBER 13, 2025.

A. On September 13, 2025, Hatch Unit 2 Operators were performing required turbine valve testing. On the fourth and final test, the unit experienced a trip of both REDACTED REDACTED. A manual SCRAM was inserted per site procedure and industry norms.

Q. WERE SOUTHERN NUCLEAR'S ACTIONS LEADING UP TO AND DURING THE SEPTEMBER 13, 2025 HATCH UNIT 2 EVENT REASONABLE AND PRUDENT?

A. Yes, Southern Nuclear's actions before and during the September 13, 2025 Hatch Unit 2 event were reasonable and prudent when evaluated based on the information available at the time and consistent with industry standards and plant procedures.

Prior to the event, the unit was operating within its approved configuration, and turbine valve testing was being performed in accordance with established procedures. There was no indication that conditions existed that would have caused this event. Three of four turbine valves had been successfully tested. Following the event, Southern Nuclear conducted thorough causal analysis to understand all the factors contributing to the event and identify appropriate corrective actions. These reviews were undertaken not because the pre-event decisions were imprudent, but because Southern Nuclear holds itself to a high standard of continuous improvement. Notably, the Root Cause Analysis did not find that the Company had inadequate procedures in place at the time of the event. Further, the occurrence of the event does not show that management or operational decisions were unreasonable given the facts and circumstances known at the time.

1 **Q. WHY SHOULD THE CONCLUSIONS OF POST-EVENT CAUSAL**
2 **ANALYSIS NOT BE USED TO JUDGE THE PRUDENCE OF PRE-EVENT**
3 **DECISION MAKING?**

4 A. As stated above, the purpose of post-event causal analysis is to find opportunities
5 for improvement using information that becomes available only after the event
6 occurs. These analyses purposefully apply a high standard and benefit from
7 hindsight. As such, they are not designed to evaluate whether decisions made prior
8 to the event are reasonable based on the information available at the time the event
9 occurred. In this case, Southern Nuclear's procedures, policies, and training reflect
10 sound operational judgement and a conservative bias toward safety as three of four
11 valves had already been successfully tested. The fact that improvement
12 opportunities were found does not mean that the original procedures or policies
13 were imprudent.

14 **Q. DOES WITNESS REYNOLDS' CONCLUSION THAT THIS OUTAGE**
15 **WAS IMPRUDENT FIT WITHIN HIS OWN DEFINITION OF**
16 **IMPRUDENCE?**

17 A. No. Witness Reynolds describes a plethora of factors to be evaluated in determining
18 if an outage is prudently incurred or the result of clear imprudence. He testifies that
19 if such analysis "indicate[s] that this was a one-time mistake by the plant operator,
20 I would likely conclude that the operator was imprudent in that he did not take
21 adequate care When I discover a pattern of similar events, and actions to
22 prevent this type of event were inadequate or not timely, *I would likely conclude*
23 *this outage to be clearly imprudent.*" Here, Witness Reynolds' has failed to identify
24 a pattern or similar events that would support a finding under his analysis of clear
25 imprudence. He cites no similar events, and in fact, omits the fact that the Company

1 had already performed three tests. In addition, on page 18 of his testimony, Witness
2 Reynolds acknowledges that the Company's steps and procedures were adequate.

3 **B. PLANT HATCH UNIT 2 EVENT 23, 11/01/2023**

4 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
5 **OCCURRED AT PLANT HATCH UNIT 2 ON NOVEMBER 1, 2023.**

6 A. On November 13, 2023, Hatch Unit 2 had a REDACTED REDACTED
7 REDACTED for the REDACTED REDACTED, which caused a leak. Operators
8 secured one of the two REDACTED REDACTED to reduce the leakage. The second
9 REDACTED REDACTED automatically tripped due to water from the leak. Operators
10 inserted a manual SCRAM as Reactor water levels dropped. The impacted REDACTED
11 REDACTED is not nuclear safety-related; therefore, the Maintenance team was deployed to
12 fix the broken bracket.

13 **Q. WERE SOUTHERN NUCLEAR'S ACTIONS LEADING UP TO AND**
14 **DURING THE NOVEMBER 13, 2023 HATCH UNIT 2 EVENT**
15 **REASONABLE AND PRUDENT?**

16 A. Yes. Southern Nuclear's actions associated with the November 13, 2023, event
17 were reasonable and prudent when evaluated based on the conditions and
18 information known at the time. The event was started by a pipe failure. Once the
19 leak occurred, Operators responded conservatively and in accordance with
20 approved procedures. When water intrusion caused the second REDACTED REDACTED
21 to trip and REDACTED water level to drop, Operators inserted a manual SCRAM per
22 approved procedures and industry norms.

1 **Q. DOES THE FACT THAT A REDACTED FAILURE LED TO THE OUTAGE**
2 **MEAN THAT SOUTHERN NUCLEAR’S PRIOR DECISION WAS**
3 **IMPRUDENT?**

4 A. No. Equipment failures, particularly REDACTED REDACTED, can occur without prior
5 warning notwithstanding the application of sound engineering, maintenance, and/or
6 operational practices. Southern Nuclear has robust programs in place for system
7 health monitoring, corrective actions, and continuous improvement, but the
8 occurrence of equipment failures does not show that pre-event decisions were
9 unreasonable. For this event, it is reasonable for Maintenance to fix a broken part
10 and return it to the previous state.

11 **Q. DOES THE FACT THAT THERE WAS EARLIER REDACTED FAILURE**
12 **MEAN THAT SOUTHERN NUCLEAR’S ACTIONS WERE TO RESTORE**
13 **THE BROKEN PART WERE IMPRUDENT?**

14 A. No. In hindsight, our causal analysis noted a missed opportunity to find earlier
15 failures and look deeper into the core issue. Although the causal analysis identified
16 failures in 2007, notably there were no other failures until 2023. So, it is reasonable
17 for Maintenance personnel to assume the needed fix was to reinstall the bracket
18 given reasonable operation for a period of 16 years. Additionally, as noted in our
19 causal analysis, both Maintenance and Operations personnel assumed simple
20 vibration was the core issue. With that in mind, the Maintenance and Operations
21 personnel assumed that reinstallation of the bracket was the right action.

1 IV. PLANT VOGTLE

2 A. PLANT VOGTLE UNIT 3 EVENT 86 (09/17/2024)

3 Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT
4 OCCURRED AT PLANT VOGTLE UNIT 3 ON SEPTEMBER 17, 2024.

5 A. On September 17, 2024, Vogtle Unit 3 experienced a REDACTED failure leading to a
6 REDACTED REDACTED REDACTED REDACTED REDACTED REDACTED
7 opening completely instead of staying closed. This led to an automatic SCRAM
8 and Safeguards actuation.

9 Q. WERE SOUTHERN NUCLEAR'S ACTIONS LEADING UP TO AND
10 DURING THE SEPTEMBER 17, 2024 VOGTLE UNIT 3 EVENT
11 REASONABLE AND PRUDENT?

12 A. Yes. Southern Nuclear's actions related to the September 17, 2024 Vogtle Unit 3
13 event were reasonable and prudent based on the information available at the time
14 and were consistent with plant design, procedures, and industry standards. This
15 event was caused by an unexpected REDACTED failure.

16 At the time of the event, Vogtle Unit 3 was operating within its approved
17 configuration, and there were no indications that this particular REDACTED failure or valve
18 response was imminent or reasonably foreseeable. The REDACTED were obtained as
19 safety-related components consistent with industry standards. The plant's
20 protection systems functioned as designed and intended and operators responded
21 appropriately.

22 The vulnerability of this single REDACTED failure is part of the original plant design. The
23 AP-1000 design is certified by the Nuclear Regulatory Commission ("NRC") in
24 accordance with 10 Code of Federal Regulations Part 52. Per the terms of 10 C.F.R.
25 Part 52, significant changes to the core design are not permitted without reapproval
26 by the NRC. As noted in the causal analysis, following completion of construction,

1 Southern Nuclear initiated a design change with the original equipment
2 manufacturer (“OEM”).

3 As with other post-event reviews, these analyses benefited from hindsight and were
4 conducted to strengthen long-term reliability and performance. The improvement
5 opportunities identified after the fact do not indicate pre-event decisions or
6 maintenance practices were unreasonable given the original plant design as
7 approved by the NRC.

8 **Q. COULD THIS OUTAGE HAVE BEEN PREVENTED BASED ON THE**
9 **CRITICALITY RANKING OF THE REDACTED AS SUGGESTED BY PIA**
10 **STAFF WITNESS REYNOLDS?**

11 A. No. As stated in the Southern Nuclear causal product, the REDACTED were noted as a
12 single point vulnerability (“SPV”) and the criticality of the part would not have
13 prevented the REDACTED failure. Southern Nuclear utilizes the Electric Power Research
14 Institute (“EPRI”) recommendations for REDACTED maintenance. These REDACTED were
15 categorized as “Run to Maintenance” and the SPV plan lists replacement of the
16 REDACTED with valve maintenance at no later than 10 years. The causal analysis noted
17 this was not an issue or contributor to the failure of the REDACTED since these REDACTED were
18 less than 10 years old at the time of failure. In fact, these REDACTED were replaced after
19 construction was completed and prior to commercial operation to maximize the
20 potential for satisfactory performance.

21 The Company’s response to this REDACTED failure was not clearly imprudent, nor was it
22 imprudent. The REDACTED were installed as designed and approved by the NRC.
23 Contrary to the statements of Witness Reynolds, additional or more regular
24 maintenance on this type of component does more harm than good because it
25 introduces infinitely more opportunities for failure. REDACTED fail when they are
26 installed incorrectly. To check a REDACTED, the maintenance engineer must uninstall and
27 reinsert it, which not only introduces oil from a human hand, it increases the

1 likelihood that the REDACTED is reinstalled incorrectly. REDACTED like these are the type of
2 component best left alone and not touched until a major system outage is scheduled.

3 **B. PLANT VOGTLE UNIT 3 EVENT 66 (07/08/2024)**

4 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
5 **OCCURRED AT PLANT VOGTLE UNIT 3 ON JULY 8, 2024.**

6 A. On July 8, 2024, Vogtle Unit 3 REDACTED REDACTED REDACTED failed to the
7 open position due to foreign material in a positioner internal pressure regulator.
8 This failure led to a loss of forward flow, causing the water levels in both Steam
9 Generators to drop. Operators inserted a manual SCRAM due to low water levels
10 in the Steam Generators.

11 **Q. WERE SOUTHERN NUCLEAR'S ACTIONS LEADING UP TO AND**
12 **DURING THE JULY 8, 2024 VOGTLE UNIT 3 EVENT REASONABLE**
13 **AND PRUDENT?**

14 A. Yes. Southern Nuclear's actions related to the July 8, 2024 Vogtle Unit 3 event
15 were reasonable and prudent based on the information available at the time and
16 consistent with plant design, procedures, and industry standards.

17 At the time of the event, Vogtle Unit 3 was operating within its approved
18 configuration, and there were no indications that the REDACTED REDACTED
19 within the REDACTED was present or that the REDACTED would fail in this manner.
20 The positioner in question is located inside another component and not visible upon
21 initial inspection without taking apart the surrounding component. Further, the
22 REDACTED REDACTED REDACTED REDACTED REDACTED REDACTED
23 REDACTED REDACTED. The positioner was installed during plant construction
24 and follow up inspections of similar positioners found no similar issues.

25 Even within Mr. Reynolds' own definitions of imprudence and clear imprudence,
26 the failure to REDACTED REDACTED REDACTED component located inside

1 of another component does not come close to imprudent decision making or
2 conduct of the Company. Further, the REDACTED was introduced by the
3 manufacturer, not the Company. No Company conduct, omission, or oversight
4 contributed to this outage.

5 **C. PLANT VOGTLE UNIT 4 EVENT 10 (06/05/2024)**

6 **Q. PLEASE DESCRIBE THE CIRCUMSTANCES OF THE OUTAGE THAT**
7 **OCCURRED AT PLANT VOGTLE UNIT 4 ON JUNE 5, 2024.**

8 A. On June 5, 2024, Vogtle Unit 4 Operators inserted a manual SCRAM after they
9 responded in an unexpected manner following the trip of the REDACTED REDACTED.
10 A faulty temperature probe gave a high REDACTED REDACTED REDACTED for the
11 REDACTED REDACTED. This resulted in an automatic Turbine Runback and REDACTED
12 REDACTED REDACTED. REDACTED buildup, due to the REDACTED, lowered the
13 REDACTED REDACTED REDACTED. However, the REDACTED prevented the
14 REDACTED from adjusting to respond to the lowering temperature.

15 **Q. WERE SOUTHERN NUCLEAR'S ACTIONS LEADING UP TO AND**
16 **DURING THE JUNE 5, 2024 VOGTLE UNIT 4 EVENT REASONABLE**
17 **AND PRUDENT?**

18 A. Yes. Southern Nuclear's actions related to the June 5, 2024 Vogtle Unit 4 event
19 were reasonable and prudent based on the information available at the time and
20 consistent with plant design, approved procedures, and operator training.

21 The event started with a faulty temperature probe that provided an erroneous high
22 REDACTED REDACTED REDACTED REDACTED. This REDACTED
23 REDACTED was installed during construction of the plant. There were no indications that
24 the REDACTED was faulty prior to the failure.

25 Following the outage, Southern Nuclear conducted the causal analyses to fully
26 understand the failure. As with other analyses, the causal product was the result of

1 hindsight and was prepared with the intent of furthering continuous improvement.
2 Southern Nuclear identified that this REDACTED was not installed correctly,
3 but there were no indications of similar issues with other REDACTED. Also,
4 it was found that none of the construction documents indicated any issues during
5 installation.

6 **Q. IS THIS COMPONENT SUBJECT TO ANY WARRANTY UPON WHICH**
7 **THE COMPANY COULD DRAW TO BE COMPENSATED FOR THIS**
8 **FAILURE AS SUGGESTED BY PIA STAFF WITNESS REYNOLDS?**

9 A. No. Witness Reynolds' suggestion that this is a warranty item underscores his
10 unfamiliarity with typical nuclear industry practice and the Vogtle Units 3 and 4
11 Project. In addition to the significant passage of time and the Westinghouse
12 bankruptcy resulting in warranties no longer being available, warranties that were
13 previously available would not cover the costs at issue here. Vendors will not agree
14 to warranty terms where they agree to bear indirect damages due to unit outages
15 and downpowers, or in the unlikely event they would it would render their
16 components cost-prohibitive. A warranty of the kind Witness Reynolds discusses
17 is not a standard or expected practice in the nuclear industry.

18 **V. CONCLUSION**

19 **Q. WERE THE COMPANY'S ACTIONS AND DECISION MAKING**
20 **REGARDING THESE OUTAGES CLEARLY IMPRUDENT?**

21 A. No. The Company's actions and decisions related to the outages addressed above
22 were reasonable and prudent and did not evidence any unaddressed reoccurrence
23 trend or repeat deficiency. Witness Reynolds' testimony does not support a finding
24 of clear imprudence for any of the five outages addressed. His attempt to identify a
25 common thread among these outages is an overgeneralization that does not
26 appropriately consider the full context of the circumstances impacting each outage.

1 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

2 **A. Yes.**

1 MR. HEWITSON: And with your permission,
2 we'll let Mr. Berry summarize his testimony.

3 CHAIRMAN SHAW: Yes, sir.

4 Mr. Berry, go ahead.

5 MR. BERRY: Thank you.

6 So good afternoon, Commissioners. I
7 appreciate the opportunity to support the Georgia
8 Power's Fuel Cost Recovery Application. As I
9 stated, my name is Earl Berry, and I'm the vice
10 president of engineering for Southern Nuclear
11 Company.

12 My rebuttal testimony addresses public
13 interest advocacy staff witness Joseph Reynolds'
14 testimony regarding the company's nuclear
15 operations and outages.

16 I specifically respond to each of his
17 recommendations regarding five of the company's
18 unplanned nuclear outages by providing additional
19 context and explanation for each event.

20 Witness Reynolds' recommendations in his --
21 in these proceedings are based on information
22 contained in certain reports written by Plant Hatch
23 and Plant Vogtle personnel, condition reports,
24 apparent cause reports, and root cause analyses.

25 Importantly, the reports Witness Reynolds

1 relied upon were not written with the goal of
2 analyzing whether decisions and questions were
3 reasonable, given what was known at the time;
4 rather, these causal reports utilize hindsight to
5 identify any and all potential causes of the
6 incident in question.

7 My rebuttal testimony explains how these
8 reports are based on information that is not
9 available at the time the underlying decisions were
10 made, or they omit key background information on
11 other issues that are generally considered by the
12 decision makers.

13 With that context, I argue that Witness
14 Reynolds' investigation did not consider the
15 totality of the facts regarding each event, and did
16 not support his assertion that each outage was
17 clearly imprudent, as he defines in the standard.

18 My testimony seeks to fill in the gaps and
19 clarify the events surrounding the outages and the
20 appropriateness of the company's actions before,
21 during, and after each of the five outages. I
22 further describe how the company's actions and
23 decisions related to the outages were reasonable
24 and prudent.

25 Thank you for your time and consideration.

1 MR. HEWITSON: Mr. Chairman, Mr. Berry is
2 available for questions from Commissioners, as well
3 as cross-examination.

4 CHAIRMAN SHAW: Thank you, sir.
5 Commissioners?

6 COMMISSIONER HUBBARD: Mr. Berry, I have a
7 question or two.

8 So you mentioned that there -- that there
9 wasn't -- the decisions that you reviewed, the five
10 different incidences that Witness Reynolds
11 identified, one of which did have -- well, and to
12 finish my thought -- that there was, at the time
13 that the decision was made, the decision was
14 prudent in your view. And so root cause analysis,
15 the other things like that, are backwards looking
16 and can't serve as a basis for this.

17 But isn't it true that one of those events
18 had an incident that stretched all the way back 16
19 years of vibration, and a fix was found, but that
20 fixed proved to last for a certain period of time,
21 but then needed to be fixed again and ultimately
22 resulted in an outage? Isn't that something that
23 was known at the time, because there was past
24 information that could have informed the decision
25 that installing another bracket would lead to

1 potentially an outage?

2 MR. BERRY: No, I do not agree with that if
3 you look at the totality of the facts. So you're
4 referencing the Hatch event.

5 So in 2007, a bracket was installed in the
6 wrong location. From 2007 to 2023, there were no
7 incidents. So why would you look at 2007 if there
8 were no incidents?

9 The first additional failure happened in
10 2023, and our document, our causal product talks
11 about -- and Witness Reynolds said on the stand
12 something that was incorrect. He said that, hey,
13 in all cases, vibration is a problem. You must go
14 look at it.

15 I would ask you what rotating piece of
16 equipment doesn't have any vibration? So a
17 statement which may have been inadvertent was
18 all -- all vibration. All pieces of equipment have
19 vibration. And if you read the causal product, you
20 will see that was actually what was in the mindset
21 of the maintenance journeyman. They assumed
22 vibration was the problem; thus their response was
23 we put the bracket back on.

24 They also asked, and it was also in the
25 causal product, they asked for vibration

1 measurements, which we went out and took. And the
2 vibration was acceptable. That is within industry
3 standards and guidelines.

4 So vibration was not the issue. The
5 fundamental mistake, as we pointed out in our
6 causal product from 2007, was not the installation
7 of the bracket. It was the installation of the
8 bracket in the wrong location, which led to the
9 cyclic fatigue that actually caused the failure.

10 That's a slightly different thing. So again,
11 I ask you, in that mindset in 2007, what did they
12 know versus what did we find out later?

13 And we -- again, we discuss that in our
14 causal product the -- we called it an improper
15 mindset. You know, again our standard in these
16 causal products is pretty high. So it was in our
17 mind and our belief an the improper mindset in the
18 way that the organization looked at it.

19 It was the belief that vibration was the
20 problem, and therefore they saw putting the bracket
21 down as being the reasonable action. And that's
22 why we determined it not to be fundamentally or
23 clearly imprudent in this particular case.

24 COMMISSIONER HUBBARD: Based on the
25 assumption of the journeyman to install that

1 bracket at the time?

2 MR. BERRY: That's correct.

3 COMMISSIONER HUBBARD: Okay. Then one other
4 question, I think. Witness Reynolds kind of
5 characterized -- well, there were five different
6 events that -- events that he identified, each one
7 that had a different root cause. And so there was
8 no pattern there.

9 But what he did do is group them together,
10 as, I think, what was it, either three or two were
11 based on -- I think three were based on what he
12 characterized as operator error or -- yeah, I don't
13 know if operator error is what he characterized it
14 as, but operator, you know, failed to follow code
15 requirements or the vibrations, things that could
16 have been caught by the operator versus, for
17 example, there were two issues that were OEM
18 related.

19 And so my question is, do -- in order to
20 establish a practice or a pattern, does it have to
21 be the exact same fault or error that happened, the
22 piece of equipment that failed, or can it be simply
23 operator error, if you will, and that be
24 establishing that pattern?

25 You know, there's five different instances

1 here. Two are OEM related; three are related to
2 operations. And so isn't that kind of -- isn't
3 that establishing a pattern of operator error? Can
4 you have two OEM incidences and three operator
5 issues that can be classified together that show a
6 pattern?

7 MR. BERRY: I understand the question. I'll
8 just be clear. I'm not sure he used those exact
9 words. I understand what you're saying, though, in
10 general a question.

11 So I think that, you know, you can -- you can
12 make patterns out of anything, but you're asking me
13 a very theoretical question, right? If -- if -- if
14 I go off and -- and, you know, hit somebody one day
15 and then I go spit gum in other place does that
16 show a pattern, it's -- I can say that both of them
17 are patterns because they're related to me.

18 So where you draw the box to determine a
19 pattern -- in our causal space, when we go look for
20 repeat patterns, we do look for similar behavior.
21 We don't necessarily look for or say, does the
22 behavior have to be exactly the same? We would
23 agree. Don't -- don't go. We teach our people not
24 to go look for exact matches. That could be too
25 dangerous.

1 We do ask them to look for same, similar
2 behaviors. That's actually a specific question
3 that we ask in our causal products. So we have a
4 specific question, and it's worded slightly
5 different in each of these products. But it'll be
6 a repeat event-type question that we ask. Is this
7 a repeat of that? None of these items were marked
8 as repeat events.

9 COMMISSIONER HUBBARD: Okay. And last
10 question. Is it -- we haven't built any AP1000s,
11 but there was one issue that caused a SCRAM, I
12 think, on day 36 of operations. Is that -- is that
13 expected, growing pains, if you will, right after
14 commissioning? Shouldn't commissioning catch a lot
15 of these issues, if not all of them? So to expect
16 something just 36 days after operations, I mean, is
17 that surprising to you?

18 MR. BERRY: It is not surprising to me.
19 My -- my goal is perfection. We want that for
20 every one of our customers. But it is not
21 surprising. If you look at data and compare, for
22 example, Vogtle Unit 1 to Vogtle Unit 3, Vogtle
23 Unit 1's availability that first year was about
24 70ish percent, low 70s percent. Vogtle Unit 3's
25 was in the mid 80 percent. So much better

1 performer. This is not unusual.

2 Again, if you compare the AP1000, you can use
3 international data from, like, the Power Reactor
4 Information System. So you have -- that's
5 international data. But if you use that and you
6 compare the Vogtle AP1000, or even the Chinese
7 AP1000 to the other competitive new nuclear units,
8 you will see that the AP1000's performance
9 exceeded.

10 COMMISSIONER HUBBARD: Okay. Thank you.

11 CHAIRMAN SHAW: Any other questions?

12 (No response.)

13 All right. Georgia Public Service
14 Commission.

15 CROSS-EXAMINATION

16 BY MR. COLLADO:

17 Q. Good afternoon, Mr. Chairman. Good
18 afternoon, Mr. Berry.

19 A. Afternoon.

20 Q. I want to direct you to something you said in
21 the beginning of your testimony, but you also mentioned it
22 in your summary, so you may not need to reference it, but
23 I'll just go ahead and quote you on page three, line 25.

24 You're talking about Witness Reynolds'
25 recommendation. You stated that the reports utilize

1 hindsight to identify potential causes of the incident in
2 question, whether such causes could have been avoided
3 through the application of reasonable management decisions
4 at the time of the event.

5 Were you aware or are you aware that Witness
6 Reynolds also reviewed Georgia Power and saw the company's
7 processes and procedures when writing his testimony?

8 A. He reviewed some of our procedures. Yes.

9 Q. And a process and procedure would have been
10 something that would have existed at the time of the
11 outage; correct?

12 A. Correct.

13 Q. And we would expect that the -- or you would
14 expect that the people working on Georgia Power's nuclear
15 fleet are aware of the processes and procedures during
16 operation of those units; correct?

17 A. Yes, I expect that.

18 Q. So we wouldn't consider that as a hindsight
19 consideration. In fact, it would be foresight. It would
20 be the company knowing that an outage could happen,
21 creating a process or procedure to address that, to
22 prevent it from happening, and something that was known by
23 the workers at the time of the outage; correct?

24 A. That was an extremely long sentence. Can you
25 restate that, please.

1 Q. Sure. You stated that Witness Reynolds
2 relied solely on hindsight, but if you are looking at a
3 process or procedure that the company has, that isn't
4 really hindsight. In fact, it's foresight. It's the
5 company thinking about how an outage could happen in the
6 future, creating a process to address that, and then
7 putting that process out there so its workers can follow
8 them; correct?

9 A. You asked me two questions. I don't know if
10 that was intentional. So you asked me -- the first
11 question was, was Witness Reynolds looking in hindsight,
12 yes. Even if you're reviewing the procedure, it's in
13 hindsight because you already know what the event is.

14 The second question you asked me is, do we
15 provide the procedures before an event to try to prevent
16 an event? And the answer to that is yes.

17 Q. Okay. I understand the second -- your second
18 answer. Going back to the first one, my point was, is
19 Witness Reynolds depending on a hindsight report solely
20 when he is looking at the processes that Southern Company
21 and Georgia Power create relating to the outage?

22 A. Yes, because you already know the outage
23 happened. But this is going to be a fundamental
24 difference. If you know the outage -- by the way, they
25 teach you this in root cause analyses, which Mr. Reynolds

1 also, I believe, says he's an expert in, which is, when
2 you already have the event in your head, even when you go
3 back and review other materials that were known, you still
4 have that. You have to try to split that.

5 So I cannot answer that question, that he
6 split it, because I'm not in his head. That's why I'm
7 answering the question the way I'm answering it.

8 Q. How about this then: How would the people
9 who write the processes be thinking about outages if they
10 hadn't happened yet? They're not thinking backwards,
11 they're thinking forwards; correct?

12 A. We are thinking -- so thank you for asking
13 that question. It's a wonderful question. Again, it
14 tells us how robust we were and shows why we were prudent.

15 We go through and look at our plants and how
16 they operate, and we assess what we consider the
17 vulnerabilities of those plants and the risk. Based on
18 that is how we go through our process of where do we think
19 we need procedures, where do we need written instructions,
20 what level of written instructions, and so on.

21 So all of that is based on not -- obviously
22 not an event, but thinking through how our plants are
23 designed, what we see as the vulnerabilities and the risks
24 are, and where we believe we need written instructions or
25 other instructions to be able to provide for our workers.

1 Q. Would you agree that although mistakes do
2 happen, Southern Nuclear expects operation without any
3 unplanned outages, either caused by procedural error or
4 operational error?

5 A. We do expect that.

6 Q. And with that said in your testimony, did you
7 or Southern Nuclear determine that all of the nuclear
8 outages discussed were reasonable and prudent?

9 A. Based on the definition that has been given
10 to me by the Commission and as highlighted in
11 Mr. Reynolds' announcement, I find that they were prudent
12 and they did not need that clearly improving guidance.

13 Q. And could any of the outages have been
14 avoided through the application of reasonable management
15 decisions at the time of the event?

16 A. Based on what we knew at the time of the
17 event? No. Obviously, our expectations were not fully
18 met in several of those outages. And I think, in
19 particular, we mentioned or Mr. Reynolds may have
20 mentioned the Hatch event where there was a clear miss in
21 procedure steps. You know, that clearly did not meet our
22 expectations.

23 Q. Let's talk about that outage.

24 Would you agree that the cause for this event
25 was human error? And if you want me to just define human

1 error again.

2 A. Our causal product found it was human error.

3 Q. And do you recall saying in a meeting with
4 staff in March that the cause of the event here was that
5 our operators missed a critical step in their procedure?

6 A. Our causal product states that, yes.

7 Q. So this is consistent with, yeah, causal
8 product.

9 Would you agree that this event was caused by
10 human error of GPC personnel?

11 A. It was caused by a staff member of Southern
12 Nuclear, that's correct.

13 Q. Would you agree that the root cause of this
14 outage was that the operator failed to perform a
15 sequential place keeping as required by the procedure?

16 A. Yes.

17 Q. And that operator was expected to know the
18 procedure prior to showing up to work that day?

19 A. Yes.

20 Q. So although both you and Mr. Reynolds agree
21 that the company's steps and procedures were adequate,
22 this outage was not caused by inadequate procedures;
23 correct?

24 A. Yeah, that is correct.

25 Q. And would you agree that the shutdown would

1 have been avoided if the procedures were properly
2 followed?

3 A. Yes.

4 Q. And GPC took disciplinary action against the
5 personnel due to this incident; isn't that correct?

6 A. Correct. We took discipline.

7 Q. Including termination?

8 A. For an individual. Yes.

9 Q. And is your testimony today that the
10 operator's actions during this incident were both prudent
11 and warranting employee termination?

12 A. By the definition used by our company, or the
13 definition used here is for clearly imprudent.

14 For our company, we felt we took prudent and
15 reasonable actions on behalf of the people of Georgia and
16 our company, meeting the definition as outlined here for
17 clearly imprudent, because I had good procedures and I
18 know it followed correctly by that -- those individuals,
19 which demonstrated that they followed it three out of four
20 times correctly, I would say that they were prudent.

21 Q. And you were talking about the actions of the
22 individual, not the actions of the company in disciplining
23 the individual; correct, when you're talking about
24 prudence?

25 A. When talking about prudence for that

1 discipline, that's correct.

2 Q. Okay. What about the prudence of the
3 operator's actions?

4 A. The operator's actions by our definitions
5 were not prudent.

6 Q. Okay. I want to talk about another Hatch
7 outage event 23. This is going to be discussed in
8 page 20, line 15 of your testimony. It's definitely not
9 page 20. There's no 20 pages in this testimony. I think
10 it's page 10.

11 A. Yes. Page 10.

12 Q. Page 10. Sir, I'm sorry about that.

13 A. Okay.

14 Q. I'm sorry, everyone involved. I'm talking
15 about Mr. Reynolds' testimony. On page 20 of
16 Mr. Reynolds' testimony, he's talking about the event 23
17 at Hatch 2.

18 I'm very happy with the last panel, by the
19 way.

20 A. Okay.

21 Q. On page 20, line 15, Mr. Reynolds says, in
22 response to the question, could this reactor manual SCRAM
23 have been avoided, Mr. Reynolds' testimony reads: Yes.
24 The company was aware that this -- of the issue and did
25 not fully analyze the situation.

1 CHAIRMAN SHAW: We're still on the same
2 incident at Hatch?

3 MR. COLLADO: We're on a different Hatch.
4 This one happened on November 1st of 2023.

5 CHAIRMAN SHAW: Okay.

6 MR. COLLADO: So this is different than the
7 incident I spoke to at first.

8 BY MR. COLLADO:

9 Q. And this was -- but you did discuss this a
10 little bit with Commissioner Hubbard. You -- Witness
11 Reynolds said an improper mindset contributed to the SCRAM
12 as an ineffective U-bolt was installed and a pattern of
13 vibration concerns were reported but never studied. Thus
14 the reactor manual SCRAM could have been avoided.

15 Do you agree with that statement?

16 A. I explained that to the Commissioner Hubbard
17 where that actually came from. Those words, "improper
18 mindset," are our words that we determined afterwards.
19 And I explained exactly the scenario to the Commissioner.
20 If you'd like, I could go back over.

21 Q. Well, specifically would you agree that the
22 reactor manual SCRAM could have been avoided?

23 A. All manual SCRAMS can be avoided. That's my
24 standard of which you asked me earlier. My standard is --
25 is high.

1 In this particular case -- again, I would say
2 all manual SCRAMS can be avoided. As I explained to the
3 Commissioner, right, the 2007 event, the -- the improper
4 mindset, which was the testimony of -- of Mr. Reynolds was
5 vibration issue should all be resolved. Their -- their
6 mindset was put a bracket on it. That stops vibration
7 issues. That's what they were doing. In their mind, they
8 were making actions.

9 That's what we knew. You know, that's what
10 the maintenance journeyman knew at the time.

11 Q. And would you agree that the improper mindset
12 or, I believe, in other places in your testimony you've
13 said the words faulty mindset. Would you agree that they
14 directly led to the failure to identify the cause of the
15 problem that led to the outage?

16 A. They did. It was affirmative.

17 Q. Moving back to your testimony on page 13, you
18 discuss the Vogtle outage in 2024. This is event 86.

19 In your testimony, when you state fuses fail
20 when they are installed incorrectly, does this mean that
21 the fuse was initially installed incorrectly by Georgia
22 Power?

23 A. No, it does not. Again, our causal product
24 goes off in investigating it. That was a direct response
25 to a statement that was made in the -- in the testimony,

1 of course, really related to maintenance.

2 Q. And do you know who installed this fuse? Was
3 it Georgia Power personnel or someone else?

4 A. I do not know exactly who installed this
5 particular fuse. I know we reviewed the work instruction,
6 but I, off the top of my head, cannot answer that.

7 Q. Can you also state -- to check a fuse, the
8 maintenance engineer must uninstall and reinsert it, which
9 not only introduces oil from a human hand, it increases
10 the likelihood that the fuse is reinstalled incorrectly.

11 Can you -- can you go a little further,
12 deeper into that? How does oil from the human hand affect
13 the fuse?

14 A. It increases the resistance on a fuse.
15 That's -- that's a well-known failure mode and is
16 discussed in -- in standard industry documentation for
17 that item. No fuzes. Again, this was in reference to a
18 direct question.

19 We did replace all of these fuzes right after
20 construction. We wanted to make sure that there were no
21 construction issues that -- that could have impacted them.
22 But every time you touch a component, you're taking a
23 risk. There's a risk of introducing human error, and
24 things like oil on your hands or any other miscellaneous
25 type materials will change the resistance to the fuse.

1 And this -- this changes that fuse characteristic.

2 In these particular fuses that are installed
3 are designed to -- to protect part of the control
4 circuitry for -- for this -- for this particular unit.
5 And those are low voltage, low amperage-type systems, so
6 they -- they do require a very clean source of power.

7 Q. Does Georgia Power provide gloves, or could
8 gloves have been used by maintenance engineers in this
9 process?

10 A. Certainly. And Georgia Power does provide
11 gloves. Both.

12 Q. Does the company train personnel on how to
13 perform proper inspections and maintenance regarding this
14 operation?

15 A. Yes, we do.

16 Q. Is it prudent for the company to neglect to
17 inspect and maintain items which must be removed and
18 reinstalled due to risk of error during a reinstallation?

19 A. Yeah. Wonderful question. We weigh the risk
20 of each and every application. Again, this has absolutely
21 nothing to do with this case. I understand why you're
22 asking it, but we would not, in any way, shape or form,
23 remove anything before it is necessary, to not introduce
24 other risk aspects.

25 Q. Is it true that the OEM has recognized that a

1 correction to the trip circuit software is being
2 redesigned for NRC approval to correct the key problem of
3 this single failure point?

4 A. That is not true. It is being redesigned
5 because I directed it to be redesigned. The OEM does
6 not -- did not do this, did not recognize this as any
7 different. The OEM believes this is core to the AP1000.
8 The AP1000s that they're selling overseas has this feature
9 exactly as it is. Design change has been designated by us
10 at Southern Company on behalf of Georgia, not by the OEM.

11 Q. Thank you for clarifying that.

12 Moving on to event 66, this outage occurred
13 in Vogtle 3 in July of 2024, and as discussed on page 15
14 of your testimony, 14 and 15. But on page 2 of page 15,
15 your testimony states that further, the foreign material
16 was introduced by the manufacturer, not the company. And
17 this is regarding the foreign material that led to the --
18 the failure.

19 Mr. Berry, in your opinion, who should be
20 responsible for the replacement fuel cost caused by this
21 outage?

22 A. In my opinion, I think that -- that's a tough
23 question, and my opinion is -- is not really relevant
24 here. But if you want to ask my opinion, it is
25 traditional in our industry that the cost is borne by the

1 organization and/or, you know, whoever -- whoever the
2 ratepayers are.

3 Q. You said the organization and the ratepayers.
4 This could be two different entities. Could you be more
5 specific?

6 A. Yeah. There are different rate structures
7 across the US, so I'm answering this question very
8 generically.

9 Q. Mr. Berry, do you know if the company sought
10 relief from the OEM before requesting that ratepayers pay
11 for the replacement power costs resulting from this
12 outage?

13 A. I believe we answered that in a separate
14 question, or I may be -- I may be mistaken in that, but I
15 thought we answered that in a separate question for this
16 one.

17 Now, this is, of course, an AP1000 and went
18 through the bankruptcy proceedings, which I know many of
19 the Commissioners are familiar with. So there are aspects
20 of warranty that are not valid. They were discharged
21 by -- by the bankruptcy proceedings that -- that the
22 organizations went through.

23 Q. So, to your knowledge, the company has not
24 sought relief from the OEM?

25 A. To my -- I know of -- no.

1 Q. Is it appropriate for the company to seek
2 fuel costs recovery from ratepayers when the OEM is
3 clearly and totally responsible for producing the
4 contaminated product that caused the unplanned outage?

5 A. Yeah. As I stated previously, there are
6 industry standards. No -- no OEM would sell us any
7 component if they thought they were 100 percent on the
8 hook for full fuel costs. Indeed, most of the materials
9 when you buy a component and has a warranty, it
10 specifically states that they will warranty certain
11 aspects, but they will not warranty how you use that
12 component. So you will not -- for example, if I go buy a
13 screw and put into my plant and for some reason I say that
14 screw caused the plant to trip, the manufacturer of that
15 screw would say that their warranty does not cover our
16 use.

17 Q. But the exact characteristics of the
18 warranty, that would be a part of a contract that Georgia
19 Power enters into with the OEM, correct?

20 A. Yeah. And I -- I failed myself. I probably
21 should have asked you. When you say "OEM," I -- or you're
22 talking about the bigger OEM, or are you talking about the
23 specific supplier of this component?

24 Q. I can't say specifically. I -- I don't know
25 exactly who would be responsible in this case. I'm saying

1 OEM and whoever the company would -- can and would be able
2 to recover from.

3 A. Yeah. This particular component is not --
4 and I'll -- I'll try to answer it again.

5 The first one, the bigger one I referenced
6 would be more of that bankruptcy-type item, right? That's
7 the bigger OEM.

8 Now, the smaller OEM, in this case, the
9 actual company that makes that particular component, we do
10 not negotiate terms with them. It is -- it is like going
11 to Home Depot and buying a part. It comes with a warranty
12 that is a -- a standard-type warranty, and it is -- it
13 does not cover the use of the component.

14 Q. And to your knowledge, this Commission does
15 not review any kind of contract with an OEM, whether it's
16 either type that you just described?

17 A. Yeah, I do not know what the Commission
18 reviews.

19 Q. And discussing the last outage, Vogtle 4,
20 that happened on June 5th of 2024. I believe it's on
21 page 16 of your testimony.

22 Mr. Berry, do you dispute that the documents
23 Georgia Power produced indicate in the equipment failure
24 summary regarding this outage, that, quote, work practice
25 during construction was less than adequate? And, quote,

1 and, another quote, design was less than adequate, end
2 quote.

3 A. Can you show me those words or point me to
4 the -- the line number?

5 Q. So this would be in the equipment failure
6 summary. I don't think you have it. And I don't know if
7 you had it in front of you, but, to your knowledge and
8 recollection.

9 A. Yes. I'll use the subject to check because I
10 don't have the exact quotes in my words. They sound to be
11 aligned with words that we would use in our call for
12 products.

13 Q. And those comments were related to the root
14 cause of the outage described as, quote, a loose wire on
15 the termination block, end quote.

16 A. That's correct.

17 Q. So did the check. Subject checks. Yeah, I
18 understand.

19 A. Yes, I know the loose wire part.

20 Q. Do you believe it's appropriate to place
21 charges for replacement power on the -- on the ratepayer
22 for inadequate work practices and design?

23 A. So again, to be clear, I know that the
24 Commission will make the final determination on this
25 particular item. As I started with to respond to the

1 Commissioners' initial questions, the Vogtle Unit 3 and 4
2 units operate better than Vogtle Units 1 and 2 upon
3 startup. And, again, you can compare them to any other
4 new nuclear project in the world using the PRIS data of
5 the international data, and you will see that their
6 performance is excellent and can be only categorized as
7 excellent.

8 We expect in this -- you know, while our goal
9 is perfection, are there issues that you see? There
10 are -- our causal product talked about -- we reviewed in
11 our extent of condition as discussing that causal
12 products, every other wire next to it, and we also went to
13 the opposite unit to check wiring. We did not find any
14 other issues. We found this one.

15 So this was not a fundamental design issue;
16 i.e., an issue that was so, you know, gross that it just
17 should have been missed. This -- this turned out to be a
18 singular location, an issue.

19 So I think it falls under what I consider a
20 construction error, and one that was -- I don't want to
21 say it was reasonable because there is no error that is
22 reasonable. Our standard really is perfection, and we do
23 endeavor to catch every one of those issues. But of the
24 thousands of miles of cable and the thousands and
25 thousands of terminations we did at Vogtle 3/4 to find

1 one, I don't know that that's imprudent.

2 Q. And your answer was specifically talking
3 about what the company found regarding this outage?

4 A. That's correct.

5 Q. Would you say generally, for outages that
6 are -- that are due to inadequate work practices or design
7 performed by the company or its vendors and contractors,
8 do you think the ratepayers should be responsible?

9 A. I think our standard for what is adequate
10 design and inadequate design change over time, and many of
11 those are our responsibility as -- as owners, operators of
12 the organization, and so ratepayers will be responsible
13 for some of those items.

14 Q. The last question. On page 16, line 2, here
15 you state: Southern Nuclear identified that this
16 temperature probe -- I'm sorry.

17 A. Component.

18 Q. I apologize for the -- Southern Nuclear
19 identified that "redacted" was not installed correctly,
20 but there were no indications of similar issues with other
21 "redacted."

22 Who was responsible for the vendors and
23 installers who work on these plants, in general?

24 A. Who is -- can you repeat that?

25 Q. Yes. When vendors and installers work on the

1 plants, is Georgia Power not responsible for their work?

2 A. Georgia Power is responsible for the work of
3 that -- your question was -- sounded like a double
4 negative, but Georgia Power is responsible for the work on
5 these plants.

6 Q. Probably was a double negative. I apologize.

7 So is that substantially different than the
8 level of responsibility Georgia Power would have for work
9 done by its own personnel?

10 A. The standards are slightly different. I
11 actually believe that came up slightly in other testimony.
12 In areas where we bring in experts that may be beyond the
13 expertise of our own personnel or others that we contract
14 work, while we do maintain responsibility as it is our
15 asset, or our asset on behalf of the people of Georgia and
16 the other co-owners, of course.

17 You know, we do often sign contracts that
18 allow those workers to work under theirs -- their -- their
19 particular standards. So in this particular case, and I
20 know it's been in front of the commission multiple times,
21 right now some members may not have seen it, the
22 construction of Vogtle 3 and 4 was done under contracts
23 with organizations like -- like Bechtel, for example. And
24 a lot of that was done under Bechtel procedures. And,
25 again, I know those were separate proceedings.

1 So while, yes, we have those overall
2 responsibility, particularly for the -- as the operators
3 of this plant, the construction format was slightly
4 different. And before this Commission, I know that that
5 was completely laid out.

6 MR. COLLADO: Mr. Berry, thank you. I have
7 no further questions.

8 CHAIRMAN SHAW: Thank you, Chris.

9 All right. Georgia Association of
10 Manufacturers. He had to step out.

11 Georgia Interfaith Power & Light and
12 Southface.

13 MS. WHITFIELD: No questions.

14 CHAIRMAN SHAW: MARTA?

15 MR. BAKER: No questions.

16 CHAIRMAN SHAW: Resource Supply Management?

17 (No response.)

18 CHAIRMAN SHAW: Sierra Club, SACE?

19 MS. ARIZA: No questions.

20 CHAIRMAN SHAW: Redirect?

21 MR. HEWITSON: Briefly, Chairman.

22 REDIRECT EXAMINATION

23 BY MR. HEWITSON:

24 Q. Mr. Berry, Mr. Collado, after each of the
25 outages that he discussed with you, would ask you whether

1 you thought customers should be responsible for those
2 costs. Do you remember that?

3 A. I do.

4 Q. Okay. Knowing you're not a lawyer and you
5 don't practice in the regulatory aspects of the Public
6 Service Commission, your understanding of the fuel cost
7 recovery statute, is it your understanding that under the
8 fuel cost recovery statute, Georgia Power is allowed to
9 pass customers -- pass on its cost of fuel unless actions
10 have been deemed or decisions have been deemed to be
11 illegal or clearly imprudent?

12 A. Yes.

13 Q. Were any of the outages or any of the actions
14 or decisions of the company during any of these outages
15 illegal or clearly imprudent?

16 A. Not at all.

17 MR. HEWITSON: Thank you, Mr. Berry. That's
18 all I have.

19 If there are no further questions for
20 Mr. Berry, I ask that he be excused. We've moved
21 his testimony into evidence, and I would ask that
22 all of Georgia Power's exhibits be moved into
23 evidence. (GPC Exhibits 1 through 21 were admitted
24 into evidence.)

25 CHAIRMAN SHAW: All right. So marked.

1 Mr. Berry, thank you for your time. And you
2 can be excused.

3 MR. BERRY: Thank you.

4 CHAIRMAN SHAW: All right. Was there any
5 other housekeeping matters or anything to bring up
6 before we adjourn?

7 (No response.)

8 Hearing none, I want to thank everyone for
9 your patience and everything the last couple of
10 days, and I appreciate all of the folks that came
11 down here as public witnesses, and all of our
12 panelists. And especially thank you to our
13 hard-working staff for helping put this together.
14 Thank y'all.

15 (Hearing concluded at 1:56 p.m.)

C E R T I F I C A T E

I, Brenda P. Elwell, Certified Court Reporter,
do hereby certify that the foregoing transcript is an
accurate record of the proceedings had in the
above-entitled matter at the time and place therein set
forth.



^Kelley Marie Nadotti, RPR, CCR
CCR 6256-8388-8026-4192



Brenda P. Elwell, RPR, CCR, B-2023