		1 (Pages 1 to 4)
	1	3
1	STATE OF SOUTH CAROLINA	1 APPEARANCES (Continued):
2	COURT OF COMMON PLEAS COUNTY OF HAMPTON	2 ATTORNEYS FOR CENTRAL ELECTRIC:
3	RICHARD LIGHTSEY, LeBRIAN CLECKLEY, PHILLIP COOPER,	3
	et al, on behalf of themselves and all others	ROBINSON GRAY STEPP & LAFFITTE, LLCA BY: KEVIN K. BELL
4	similarly situated,	1310 Gadsden Street
5	Plaintiffs,	5 Columbia, SC 29211 (803) 929-1400
6	vs. CASE NO. 2017-CP-25-00335	6 kbell@robinsongray.com
7	SOUTH CAROLINA ELECTRIC & GAS COMPANY, a Wholly	7 ATTORNEYS FOR THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF:
8	Owned Subsidiary of SCANA, SCANA CORPORATION and the STATE OF SOUTH CAROLINA,	8
9	Defendants.	WYCHE, PA 9 BY: JAMES E. COX, JR.
	SOUTH CAROLINA OFFICE OF REGULATORY STAFF,	44 E. Camperdown Way
10	Intervenor.	10 Greenville, SC 29601 (864) 242-8212
11		11 jcox@wyche.com 12 ATTORNEYS FOR DOMINION ENERGY:
12	DEPOSITION OF: STEPHEN A. BYRNE	13 NEXSEN PRUET, LLC
13	DATE: October 23, 2018 TIME: 9:03 a.m.	BY: ALEXANDRA AUSTIN 14 205 King Street, Suite 400
14 15	TIME: 9:03 a.m.	Charleston, SC 29402
1 10	LOCATION: Haynsworth Sinkler Boyd, PA	15 (843) 579-7827 aaustin@nexsenpruet.com
16	134 Meeting Street, 3rd Floor	16
	Charleston, SC	ATTORNEYS FOR THE DEPONENT 17 STEPHEN BYRNE:
17		18 WYATT & BLAKE, LLP
	TAKEN BY: Counsel for the Defendants	BY: JAMES F. WYATT, III 19 435 East Morehead Street
18	DEDORTED DV DATDICIA I THOMBOON	Charlotte, NC 28202-2609
19	REPORTED BY: PATRICIA L. THOMPSON, Registered Professional Reporter	20 (704) 331-0767 jwyatt@wyattlaw.net
20	Registered Frotessional Reporter	21 and
21		WILMER CUTLER PICKERING HALE 22 & DORR, LLP
22		BY: MATTHEW T. MARTENS 23 1875 Pennsylvania Avenue, NW
23		Washington, DC 20006
24		24 (202) 663-6921 matthew.martens@wilmerhale.com
25		25
	2	4
1	·	
1 2	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL)	1 APPEARANCES (Continued):
	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LEBRIAN CLECKLEY,	1 APPEARANCES (Continued): 2 SOUTH CAROLINA PUBLIC SERVICE
3	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LeBRIAN CLECKLEY, PHILLIP COOPER, et al, on behalf of	1 APPEARANCES (Continued): 2 SOUTH CAROLINA PUBLIC SERVICE AUTHORITY PERTAINING TO
3 4	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LEBRIAN CLECKLEY,	1 APPEARANCES (Continued): 2 SOUTH CAROLINA PUBLIC SERVICE AUTHORITY PERTAINING TO 3 DOCKET 370:
3	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LeBRIAN CLECKLEY, PHILLIP COOPER, et al, on behalf of themselves and all others similarly situated:	1 APPEARANCES (Continued): 2 SOUTH CAROLINA PUBLIC SERVICE AUTHORITY PERTAINING TO 3 DOCKET 370: 4 NELSON MULLINS RILEY & SCARBOROUGH
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2 3 4 5 6	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LeBRIAN CLECKLEY, PHILLIP COOPER, et al, on behalf of themselves and all others similarly situated: BELL LEGAL GROUP, LLC BY: J. EDWARD BELL 219 Ridge Street Georgetown, SC 29440 (843) 546-2408	1 APPEARANCES (Continued): 2 SOUTH CAROLINA PUBLIC SERVICE AUTHORITY PERTAINING TO 3 DOCKET 370: 4 NELSON MULLINS RILEY & SCARBOROUGH BY: CARMEN HARPER THOMAS 5 1320 Main Street, 17th Floor Columbia, SC 29201
2 3 4 5	APPEARANCES OF COUNSEL: (VIA CONFERENCE CALL) ATTORNEYS FOR THE PLAINTIFFS RICHARD LIGHTSEY, LeBRIAN CLECKLEY, PHILLIP COOPER, et al, on behalf of themselves and all others similarly situated: BELL LEGAL GROUP, LLC BY: J. EDWARD BELL 219 Ridge Street Georgetown, SC 29440 (843) 546-2408 ebell@edbelllaw.com ATTORNEYS FOR THE DEFENDANT	APPEARANCES (Continued): SOUTH CAROLINA PUBLIC SERVICE AUTHORITY PERTAINING TO DOCKET 370: NELSON MULLINS RILEY & SCARBOROUGH BY: CARMEN HARPER THOMAS 1320 Main Street, 17th Floor Columbia, SC 29201 (803) 799-2000
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5 1 THE VIDEOTAPE SPECIALIST: Good 1 do not need a copy of the transcript or the video. 2 2 THE VIDEOTAPE SPECIALIST: Anybody else morning. We are now on the record. Today's date 3 3 is October 23rd, 2018. The time is approximately on the phone? 4 4 In accordance with Rule 38 the witness 9:03 a.m. 5 5 This is the video deposition of Steve has the right to be shown the videotape deposition 6 6 Byrne taken by counsel for the defendant. The unless waived by the witness and the parties. 7 7 location today is 134 Meeting Street in Charleston, Would the court reporter please swear 8 South Carolina. 8 in the witness and we may begin. 9 9 My name is Douglas Browne, legal STEPHEN A. BYRNE 10 videographer representing Courtroom Sciences. I'm 10 being first duly sworn, testified as follows: familiar with the provisions of Rule 38 pertaining 11 **EXAMINATION** 11 12 to videotape depositions. BY MR. BALSER: 12 13 This deposition is taken in the matter 13 Good morning, Mr. Byrne. of Richard Lightsey, et al, versus SCE&G, et al, 14 Good morning. 14 Case No. 2017-CP-25-00335. I'm David Balser, King & Spalding. I 15 15 Counsel present, please introduce represent SCANA and SCE&G. We've met before. How 16 16 17 yourself for the record. 17 are you this morning? 18 I'm good. 18 MR. BALSER: This is David Balser, King Α. 19 19 & Spalding, and I'm representing SCANA and SCE&G in Good. I want to start before we get 20 the Lightsey cases. And just as a point of 20 into the substance of the deposition just in the clarification, this deposition is being taken both 21 course of the South Carolina rules I want to just 21 22 make sure that you understand the nature of the 22 in the Lightsey case and in connection with PSC 23 23 Consolidated Docket Nos. 270 305 and 207. proceedings today and what is happening. 24 MS. BARRETT: I'm Julia Barrett with 24 Sitting next to you is the court 25 25 reporter who is transcribing everything that will King & Spalding representing SCE&G and SCANA. 8 6 1 MS. HODGES: I'm Bryony Hodges, 1 be said in the deposition. She will take down 2 2 in-house counsel for SCANA. literally every word that is spoken. So it will be 3 3 MS. MOODY: Leah Moody, SCANA, SCE&G. important for me to allow you to finish your 4 MS. AUSTIN: Alexandra Austin, Nexsen 4 answers before I ask my next question. It will be 5 5 Pruet, representing Dominion Energy in the PSC important for you to let me finish my question 6 6 before you endeavor to answer. cases. 7 7 MR. BELL: Kevin Bell on behalf of Do you understand that? 8 8 I do. Central Electric Power. 9 9 MS. THOMAS: Carmen Thomas on behalf of At any time during the course of the 10 10 the South Carolina Public Service Authority. I'm day if you need to take a break, please let me know. We'll accommodate you. 11 11 here with Public Service Commission pertaining to 12 Docket 370. 12 You will have the opportunity to read 13 13 MR. COX: Jim Cox from the Wyche law the transcript that is prepared memorializing the deposition and make any corrections or alterations 14 14 firm appearing on behalf of the South Carolina 15 to the testimony once you see the transcript. 15 Office of Regulatory Staff, also in the PSC 16 proceedings and the state court actions. 16 Do you have any questions about how we're proceeding here? 17 MR. WYATT: James Wyatt, personal 17 18 counsel for Mr. Byrne. 18 Α. No. I don't. 19 Mr. Byrne, I want to start with the MR. MARTENS: Matthew Martens for O. 19 20 history of the project. I want to go back to the 20 Mr. Byrne. 21 beginning of the development of the nuclear plants 21 THE VIDEOTAPE SPECIALIST: On the 22 22 phone, please, would you announce yourself. in Jenkinsville. 23 23 When did SCE&G first begin considering MR. SMITH: Emory Smith for the state 24 construction of the two nuclear power units? 24 of South Carolina in the Lightsey/Cleckley cases 25 and for the state Wilson in the PSC cases. And we 25 SCE&G first began consideration of

(

construction of the nuclear units in 2005.

- Q. Why was the company thinking about nuclear at that time?
- A. Well, the company's decisions to build new plants of any kind are based on an integrated resource plan. An integrated resource plan is something that is generated by a group internal to the company that is submitted to the Public Service Commission annually.

That integrated resource plan is a 15-year forward look at things like low growth, and it forecasts the need for when a new power plant would be constructed.

So back in that 2004 to 2005 time frame that integrated resource plan was projecting the need for new base load generation in the 2015, '16 time frame.

- Q. Did the company consider other sources of energy besides nuclear?
- A. Yes; certainly. If I can remember, in 2005 sitting through a presentation from Mitsubishi Supercritical Coal Unit. So the fossil hydro group had set that up, so that the company was considering coal.

Based on everything that was known at

A. Well, SCE&G went through a fairly detailed selection process weighing up the different sources.

As I pointed out a minute ago, some of the other sources had some negatives. In evaluating for the most part the environmental regulation or legislation that the company has deemed as pending and probably likely, the best hedge against those environmental regulations or legislation was going to be nuclear.

From a cost perspective nuclear stacked up favorably with the other options as well, and then the renewable options, while the company was looking at the source -- while the company was looking at options they were not viewed as having high enough capacity factors to be considered base load generation.

Q. I want to show, Mr. Byrne, what we are going to mark as Exhibit 9. And for the folks in the room, we're just picking up with the next number that was left where we left off with Mr. Bell's examination of Mr. Byrne. I think he left off at No. 8. So I'm just going to continuously number these.

(DFT. EXH. 9, Combined Application For

that time, environmental regulations and legislation that was pending, coal was not viewed as a positive revival alternative, at least not at that point in time.

The company had considered other sources like combined cycle natural gas and had evaluated those; but if you remember, back in that 2005 time frame, particularly close to Katrina, the price of natural gas had spiked to an historical high level. So the fuel cost of natural gas was very high.

In addition, the last few plants that the company had constructed were combined cycle natural gas. So from a balancing the portfolio perspective, you know, natural gas was not necessarily the next thing the company would have wanted to build.

The company also considered renewable options: Wind, solar, biomass. Those things of things. In general those kinds of sources, at least at that point in time, were considered to be things that would be fairly low in capacity factor and not suitable for base load mains.

Q. Why did SCE&G ultimately select nuclear?

Certificate of Environmental Compatibility, Public Convenience and Necessity and For A Base Load

Review Order, marked for identification.)

BY MR. BALSER:

- Q. Mr. Byrne, you've been handed Exhibit
- 9. Do you recognize this document?
 - A. I do.
 - Q. What is it?
- A. It's the application that the company made for a Certificate of Environmental Capability and Public Convenience and Necessity to the Public Service Commission.
- Q. And turn with me, if you would, to Page 2 of Exhibit 9, and I want to focus your attention on Paragraph 4, the bottom of Page 2. There is a reference to the Westinghouse AP1000 reactor.

Why did the company select the AP1000 design?

A. The company selected the AP1000 design after considering a couple of options. The company put out a Request For Proposal or RFP to three companies, Westinghouse, Areva and General Electric. And so the offerings from those companies and the responses to that RFP were evaluated, and the evaluation yielded the AP1000 as

15 13 1 the best nuclear technology for the company to 1 so welcome. 2 pursue. 2 MR. BELL: I'm sorry. I really thought 3 3 Some of the reasons in there was that it was 9:30. I apologize. 4 the AP1000 was a Westinghouse technology, and the 4 MR. BALSER: Not a problem. Glad to 5 5 company already operated a Westinghouse facility at have you. the V.C. Summer site and had been doing so since 6 6 MR. BELL: And we may have to log on 7 7 1982. another phone line in a minute. So if you hear us 8 8 log on, don't worry about it. There were what were called active and 9 9 passive designs. Active designs mean that they MR. BALSER: Thank you. 10 would need power and pumps and valves and things of 10 BY MR. BALSER: that like to mitigate the consequences of an 11 11 Q. Mr. Byrne, were there any licensing 12 accident. The passive plants did not need AC power 12 issues that factored into the decision to select 13 to mitigate the consequences of an accident, so the 13 Westinghouse over other options? passive plants were viewed more favorably by the 14 14 There were some licensing issues. And, 15 15 company. of course, the Nuclear Regulatory Commission had 16 16 And then in general nuclear -- the proposed a new regulatory scheme for constructing 17 large nuclear reactors --17 nuclear power plants going forward. Heretofore all 18 MR. BALSER: Who just joined? 18 the plants had been constructed under what was MR. THOMPSON: Good morning. Roger 19 19 called a Title 10 to the Code of Federal 20 20 Thompson from ORF. Regulations Part 50, and Part 50 -- it was a 21 21 BY MR. BALSER: two-step licensing process where you got a 22 22 Q. Continue, Mr. Byrne. construction permit. When the construction was 23 The large light water reactors are 23 complete you then applied for an operating license. A. 24 generally broken up into one of two different 24 So there were two opportunities for 25 25 kinds. One is a boiling water reactor and the hearings and intervention, and it was viewed as a 14 16 1 other is a pressurized water reactor, but the simpler process if you got the combined 2 2 construction and operating license. We had both at biggest difference is that the boiling water 3 reactors, while slightly more efficient, do emit 3 the same time. That determination would be made up 4 small amounts of radioactivity to the environment 4 front before construction started, and that was 5 5 on an almost continuous basis. under Title 10 of the Code of Federal Regulations 6 6 So from -- when all of those things Part 52. And under Part 52 a company that would 7 7 were added up the company's desires were pushed design reactors would submit for what is called a 8 towards the passive design, pressurized water 8 design certification, and Westinghouse was the 9 reactor, experience with Westinghouse, and from the 9 farthest along of those companies in that design 10 cost perspective the Westinghouse reactor stacked 10 certification process. 11 up more favorably than the Areva unit and as 11 So the new nuclear development team 12 favorably as the GE. 12 that was evaluating these options and evaluating MR. BALSER: Who just joined? 13 13 the opportunities viewed that favorably also. MR. BELL: This is Ed Bell. 14 14 Turning your attention back to Exhibit 15 MR. BALSER: Good morning, Ed. Are you 15 9, if you could turn to Paragraph 6 there is a 16 going to be able to make this today? This is 16 description of the choice of suppliers. And, of 17 David. Are you going to be able to make it to the 17 course, we know that SCE&G selected Westinghouse as 18 deposition or are you just going to participate my 18 the contractor to build the units. 19 phone? 19 Why did SCE&G select Westinghouse? 20 MR. BELL: We're right down the street 20 A. Well, for the reasons that I mentioned 21 at the law school. So if y'all need me I can 21 earlier, the Westinghouse technology was a 22 certainly can come down. But we thought it might 22 pressurized water reactor. So lower emissions, if 23 make the room less crowded. We have four people 23 you will. It was a passive design, meaning it 24 here. 24 didn't require AC power to mitigate the 25 MR. BALSER: Okay. Well, we've begun, 25 consequences of an accident.

The company was already familiar with the Westinghouse technology and operated a Westinghouse plant at the V.C. Summer location. It was viewed that the licensing would be further along on the AP1000 than it would be with a GE offering, what is called the ESBWR, or the Areva offering, which was called an EPR. And then from the RFP from a cost perspective the Areva reactor was more expensive than GE and the Westinghouse offerings were pretty close in price but lower than the Areva offer.

Q. I want to pick up on that, on your reference to the RFP.

SCE&G did consider other contractors besides Westinghouse?

A. That's correct.

- Q. And was there a formal process by which proposals were solicited?
- A. Yes. The new nuclear development team at the time put out a Request For Proposal to Areva, General Electric, and Westinghouse. Received the inputs back from those three entities and then did an evaluation, and it was a points-based evaluation that yielded the Westinghouse design as the most favorable.

contractor would hand you the keys and say: Here it is. So that's the premise of an EPC contract.

- Q. Is that a common form of contracting agreement in the construction industry?
 - A. Certainly it's common, yes.
- Q. In evaluating the project did SCE&G conclude that there were benefits to an EPC contract structure?
- A. Yes. The EPC contract structure from an E&G perspective would shift some of the risks of construction to an entity that is much more adept at evaluating those risks. So, you know, engineering and construction firms are a lot better in evaluating engineering and construction than utilities are.

So SCE&G was not a utility that engaged in a lot of its own construction, and in fact the previous contracts that the company had to build the last number of increments of generation were done with an EPC contract under that EPC form. Yes.

- Q. Are there any drawbacks to the EPC contract structure?
- A. Every construction scheme or contracting scheme will have advantages and

Q. I want to hand you what we're going to mark as Exhibit 10.

(DFT. EXH. 10, Engineering, Procurement and Construction Agreement, marked for identification.)

- Q. (Continued) Do you recognize Exhibit 10, Mr. Byrne?
 - A. I do.
 - Q. What is it?
- A. It is the engineering, procurement and construction or EPC contract that was signed between the owners, SCE&G and Santee Cooper, and the Consortium, which consisted at the time of Westinghouse and Stone & Webster.
- Q. Before getting into the specifics of this contract, do you have an understanding at a more general level what an EPC agreement is?
- A. Yeah. An EPC is, as the title would imply, that the counter-party to the EPC is engineering what is to be delivered and procuring what is to be delivered and is constructing what is to be delivered.

So in an ideal world you would sign an EPC contract for whatever it is that you're buying, and then after an agreed upon period of time the

disadvantages.

I think the disadvantage to the EPC structure is that you're turning over control, if you will, to the EPC counter-party. And from a cost perspective, if things were to change in your favor, meaning that things would drop in cost, there isn't that opportunity to take advantage necessarily of that cost. So if the commodities were to change in price significantly -- if, you know, a company was acting as its own general contractor, it might decide when to buy commodities, whereas if you're locked in on the price with a general contractor -- with an EPC contractor, that's what that EPC contractor is doing, is that they're trying to gauge what the market is for those kinds of things. And, you know, if they get it right then there is more profit for them; if they get it wrong there is less profit.

But again, they're much more adept at evaluating those risks than a utility would be.

Q. And what about oversight? What are the differences or are there potential drawbacks in the EPC contract structure to the ability of the owners to oversee what the EPC contractor is doing?

A. Yeah. Well, as I said earlier, the premise behind an EPC contract is that if you sign the contract the contractor delivers the product and hands the keys over to you later. That in an ideal world is the way it works.

Your ability to direct the contractor's actions would be far lower on an EPC basis than if you were acting as your own general contractor or had a different contracting structure.

The EPC format generally means that the contractor decides on the means and methods that they utilize in order to deliver the product. So your ability as owner to impact that is far less.

- Q. Are there any examples that you can think of during the development of the units in which that particular drawback; that is, the structural relationship that inhibited direct oversight became an issue?
- A. There certainly were times when as owners -- I should point out that in nuclear construction things are a little bit different than in general construction.

In nuclear construction once the licensee or the owner gets the license, the combined operating license, they then become

necessarily the best way to go but couldn't direct that change without then assuming the responsibility for a change order to fabricate a facility like that or build a facility like that somewhere else.

- Q. Why did SCE&G ultimately decide to go with the EPC structure for this project?
- A. Again, it was nuclear has not been something that has been constructed in this country in a long time. Probably three decades or so. So that nuclear utilities were not accustomed now to nuclear construction.

So it was thought that the designer of nuclear plants -- and certainly Westinghouse is a company that has designed hundreds of nuclear plants and probably responsible for the majority of design around the world -- combined with a major construction company and an architect and engineering firm -- and Stone & Webster had experience in nuclear -- would be much better at assessing the risks and much, much better at, you know, coming up with a schedule and coordinating activities to build a nuclear plant.

Q. How does the EPC allocate responsibilities between SCE&G and Santee Cooper as

responsible to the Nuclear Regulatory Commission for aspects of the construction in the plant and health and safety of the public. 4.

So in the nuclear world the owners have to be more owners than they would be in the non-nuclear world. Even the EPC contractors, I think, have a fairly good understanding of that and the Nuclear Regulatory Commission would expect that. So there are some differences. But in directing the activities of the contract or once they make a decision on something, your ability to tell them "no. I want you to change that" becomes much more limited and you're likely to get a change order for that.

So, for example, when the contractor is selected -- the Lake Charles facility. That was a facility that originally that The Shaw Group was the owner of Stone & Webster or the parent of Stone & Webster. So Shaw selected the facility in Lake Charles, Louisiana, which both owners -- I should say both owners of the Summer project and owners of both projects, meaning the Summer project and the sister project in Georgia that the Southern company was responsible for construction for -- it had, I think, four co-owners -- viewed that as not

the owners and Westinghouse and Stone & Webster as the contractors?

- A. In general the contractor is responsible for all of the engineering, the procurement and the construction. The owners were responsible for supplying the site. The owners were responsible for getting the license and interfacing with the regulator.
- Q. Did the Public Service Commission of South Carolina review the proposed use of this contract structure?
- A. Yes. Certainly in the 2008 proceedings before the Public Service Commission they reviewed the EPC contract. Yes.
- Q. Can you just briefly describe the EPC pricing provisions.
- A. The EPC pricing has in it a couple of different -- what we would call buckets. In general there are fixed and there are variable.

In the fixed category this contract actually had four different fixed categories. So one was fixed with no escalation. So whatever the component was quoted at, that was going to be the price.

Then there was a fixed with one

2.7

specific percentage of escalation called Fixed With Escalation A. There was a fixed with a different percentage of escalation or fixed with Escalation Percentage B. So that the price of the component

was fixed and the escalation factor was known.

Then there was — for anything not covered by those three previous categories, for other components there was a fixed price but tied

to an index escalation factor called Handy-Whitman.

1.5

So those were the categories under fixed, and the fixed with escalation came to be known as firm. So those four categories were either fixed or firm.

There was a bucket called Target, and the target was things that the contractors over a contract that was going to last a very long period of time were loathe to fix up front. So labor, for example, was one of the things that was in the target bucket. There was also a time and materials bucket, which was probably the smallest of those buckets, but the support from — largely from Westinghouse for things like license and support or engineering support that the utility would require to fulfill those obligations.

And then outside of the EPC contract

choose this pricing structure; that is, the fixed or firm target price, time and materials buckets?

A. These are buckets that, 1, the company is accustomed to from other contracts and are generally accepted in the construction industry.

The company did ask the Consortium for a fully fixed price contract back in the 2007, I think it was, time frame, and that was — the contractor was going to apply a fairly large risk premium to that. So that risk premium was viewed as too high.

So a structure where the costs were shared between -- between the contractor, and then there was a variable piece that the owners would be responsible for was viewed as more fair. And the EPC -- I'm sorry. Yeah. The EPC negotiation team was aware of the fact that there had been a fully fixed price option exercised in Europe, in Finland, called Olkiluoto and that that project had been mired in lawsuits. So it was fully fixed by the contractor. Things did not go well under the fully fixed arrangement and that there was not opportunity for the contractor to recover some -- what they thought were legitimate costs, and the project had stopped. So it was stopped and

there were owners' costs and then there were transmission costs.

- Q. Roughly what percentage of the total EPC contract price fell into the fixed or firm category?
- A. When the contract was signed it was in excess of 50%. I think the real number was around 57% that was in the fixed or firm category.
 - Q. And did that change over time?
- A. Yes. The contract had in it a provision to increase that over time. The feeling was that the -- particularly things like supply chain, labor rate. Those kind of things would become more known over time and that the contractor would apply a lower risk factor to those. And so I think it was in 2010 there was a change order issued that increased the fixed and firm percentage to about two-thirds.
- Q. And then, of course, in the 2015 amendment that changed again.
- A. In the 2015 amendment the contract was taken to a fully fixed price save for about \$34 million worth of things that were in the T number. Yes.
 - Q. Why did the company at the outset

started, which extends the overall time frame, and the two parties were in litigation.

Q. I want to change our focus a little bit here and talk about issues that arose during the construction of the units and mitigation efforts that were taken to try to ameliorate some of the issues that the parties faced in trying to build these units.

I want to start by looking back at Exhibit 9, which is the Combined Application, and ask you to turn your attention to Exhibit J of Exhibit 9. And Exhibit J is entitled "Risk Factors Related to Construction and Operation of Facility."

These were risk factors that the company set forth in its combined application; is that correct?

A. Let me get to J. Okay. Okay. I'm there.

Yeah. These are risk factors that the company set out in the application before the Public Service Commission.

- Q. At a high level can you describe what some of the risks were that SCE&G had identified at the beginning that the project might face.
 - A. Yeah. I would say that at a high level

the company was trying to identify the fact that nuclear construction hadn't taken place in this country in a very long time, that there would be some first of a kind issues to be dealt with in construction and in procurement and indeed of design, that the licensing process was new, new not only to the utilities and the constructors but to the Nuclear Regulatory Commission itself; that there were a lot of permits that were going to be required to build these units, that the design wasn't complete and that the procurement process, because of the long lapse in nuclear construction had been dormant, and there may be some issues with regard to restarting that nuclear construction infrastructure in this country.

It also identified that while the construction methods that were going to be utilized — advanced construction, modular construction — while they had some potential benefits, they also had some potential pitfalls and they hadn't been utilized to construct a large commercial reactor. Certainly not in this country.

So there were construction risks; there were procurement risks; there were licensing risks. A lot of those stemmed from first of a kind

very large earthquake in Japan. In general the plant rode through the earthquake very well. The earthquake triggered a tsunami, a large wall of water. That large wall of water inundated the plant and cut off its backup AC power. Flooded its diesel generators. So they had no offsite or onsite AC power, and the plant could not withstand that for too long. And they had some fairly catastrophic explosions. They really were hydrogen explosions.

But that design — again, it was a boiling water reactor design, the kind of design that SCE&G opted not to build. So there was a release of radioactivity to the environment.

So the impacts for a new nuclear construction industry was that the NRC, Nuclear Regulatory Commission, in the US sent a team to Japan to evaluate the accident. There were some conditions put on the license when it was issued to SCE&G relative to Fukushima-related activities. There were some evaluations and some equipment upgrades that were required.

The real impact, I think, though, was in the delay in the license; and while not overly significant, the chairperson of the NRC at the time

activities. Also some issues of labor. When you're building a project that's going to take roughly a decade, it's difficult to judge what labor is going to be, the availability of labor, cost of labor. Those kind of things.

- Q. Was there also the risk of a nuclear accident somewhere in the world that could impact a license delay?
- A. Yes. The company did look at that as a risk experience from the Three Mile Island incident in 1979 on the construction of V.C. Summer Unit No.
 1. That certainly had an impact and a delay.

So the company was mindful of the fact that nuclear plants are kind of tied together and that a nuclear accident anywhere in the world would impact our construction project.

- Q. And that actually happened, didn't it?
- A. It certainly did in 2011 with Fukushima.
- Q. And just briefly if you could describe what happened at Fukushima and the impact that it had on the project at Jenkinsville.
- A. Fukushima was a plant that was operating in Japan, a nuclear plant operating in Japan. Multiple units at that site. There was a

was uncomfortable with granting licenses to the U.S. plants in light of the Fukushima issues even though the staff of the NRC recommended continuing the license process with a passive design. Again, SCE&G chose a passive design over an active design. So the licensing process continued.

- Q. So how long was the delay in getting the combined operating license from the NRC?
- A. The delay over what was anticipated when the contract was signed I think was about 11 months total.
- Q. Was that issue; that is, the delay in getting the license -- the combined operating license from the NRC disclosed to the Public Service Commission?
- A. Yes. Certainly it was disclosed in testimony in front of the Public Service Commission.
- Q. One of the risk factors that is mentioned in Exhibit J to Exhibit 9 relates to procurement.

Did SCE&G encounter any problems with
 procurement?
 A. Yes. As I stated earlier, restarting

A. Yes. As I stated earlier, restarting the supply chain in this country was going to be

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difficult. Indeed there were components from all over the world that were utilized in this design.

So there were fabricators not only domestically but around the world that were supplying parts and pieces to the AP1000s.

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There were issues with -- largely with quality, quality control programs at facilities around the world. In general the international suppliers responded to those and made fairly rapid corrections.

There were some facilities domestically here, though, unfortunately that did not respond as quickly, and the most problematic of those facilities was the SMS facility I talked about a little while ago. So the Lake Charles, Louisiana facility that Shaw constructed just to build sub-modules for big structural modules for these units was problematic, and that facility was called -- at the time it was called SMS, Shaw Modular Solutions.

After CB&I acquired The Shaw Group they changed the name to CB&I Lake Charles, often shortened to CB&I LC.

What were the primary issues that the facility at Lake Charles experienced?

1 engineers from Westinghouse to be placed in the 2 facility rather than design issues being handed 3 back and forth between the facility and Lake 4 Charles and where Westinghouse was in Pennsylvania. 5 It was thought that more realtime resolution of 6 engineering issues would be of benefit. And then 7 we did press them to look at other suppliers other 8 than this Lake Charles supplier.

So I think within the confines of what SCE&G was allowed to do we did do that. The leadership teams from both SCE&G and Santee Cooper made multiple visits to the Lake Charles facility along with Southern Company in some cases. So it was a show of force to let the Shaw team and the CB&I team know that the owners of both projects were not happy with what was going on at Lake Charles.

- At some point did SCE&G request that Q. some of the module fabrication occur at V.C. Summer itself to try to alleviate some of the problems at Lake Charles?
- A. Actually that was a suggestion that came from the constructor, but SCE&G had to allow that. That was going to be a change to the construction plan that was outlined. And so the

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A. I would say that they had a myriad of issues at the Lake Charles facility. Some of them dealt with the work force; some of them dealt with leadership; some of them dealt with quality and completeness.

Certainly that facility had to deal with design changes coming from the designer, which was Westinghouse. And the Nuclear Regulatory Commission did some inspections at that facility and found some issues and were fairly critical of the facility.

- Did SCE&G take any actions to try to resolve the issues that occurred at the Lake Charles facility?
- Yes. As I said earlier, the EPC construction -- that the construct of that type of contract will limit the owners' ability to force changes, but certainly SCE&G or the owners sent to the Consortium what we call project letters that would outline changes that would need to be made.

The owners asked for a recovery plan for that facility. The owners also placed a resident inspector at the facility to evaluate quality and give realtime feedback on what was going on there. The owners asked for design

modules were supposed to be fabricated -- I say "modules." They're submodules that are eventually fabricated into big modules. But these submodules are fairly large components. They were intended to be constructed completely at this Lake Charles facility and then trucked to the site.

So what the contractor asked for was permission to move some of these modules that were incomplete to the site so the construction could be finished at the site and alleviate some of the congestion at the Lake Charles facility. So as they became backed up at that Lake Charles facility -- you got things in the shop and it's precluding new modules from starting the line, if you will, if you've got things that aren't coming out the line at the other end.

So to alleviate some of that congestion we did allow them to move components to the V.C. Summer site where the local work force, which was, I would say, more accustomed to nuclear construction and more accustomed to oversight and did a much better job at documentation and training were finishing up the modules on site.

(DFT. EXH. 11, copy of letter, 5/6/14, to P. Asherman and D. Roderick from L. Carter and

37 1 1 large corporation with significant capabilities K. Marsh, marked for identification.) 2 2 BY MR. BALSER: and who had made visits to the Columbia area, met 3 3 I'm going to hand you what we're going with SCE&G executives and talked about their 4 to mark as Exhibit 11, which is a May 6, 2014 4 capabilities in fabrication, manufacture and 5 5 letter from SCANA and Santee Cooper to Philip construction and had said that they were going to 6 6 Asherman and Danny Roderick. ensure that their assistance was given to 7 7 Do you recognize Exhibit 11? Westinghouse and The Shaw Group at the time to 8 8 I do. facilitate the construction at Summer. And to A. 9 9 And you had mentioned in your testimony date, however, the owners had seen very little 10 a minute ago that the owners had sent what you call 10 evidence of Toshiba presence, and between SCE&G and 11 project letters. Is this an example of a project 11 Santee Cooper there was a feeling that Toshiba's 12 12 letter? involvement, greater involvement of Toshiba in this 13 This would be a letter coming from the 13 project, would be beneficial. A. 14 project. This one was a little different in that 14 So this letter, while sent to the 15 it was not signed out by somebody on the project to 15 people that were contracted to build the plant, the the consortium's address in Pittsburgh; rather, 16 16 real audience was Toshiba. And this was followed 17 this one was sent from the two CEOs of the 17 up later that month by a visit to Tokyo by the two 18 companies and addressed to the CEOs of the two 18 companies. 19 consortium partners. So this one was a little 19 Were the issues with Lake Charles and 20 different and tended to get a higher level 20 the delays due to some module delivery disclosed to 21 audience. 21 the Public Service Commission and the Office of 22 Q. Did the owners often send letters like 22 Regulatory Staff? 23 this to the Consortium? 23 Yes; certainly. The Office of 24 I would say that letters that are 24 Regulatory Staff, as I think you're aware, probably 25 signed out by the two CEOs, no. Letters to the 25 visited the site frequently and had access to the 38 40 1 1 documents that the NND team had access to. Consortium on a variety of topics, the answer to 2 2 that is yes. Probably a thousand over the course The testimony before the Public Service 3 3 of the project -- consortium letters went to the Commission included a lot of issues with modules 4 Consortium from the owners. 4 probably starting in about 2010 and the quarterly 5 5 Are you familiar with Exhibit 11? reports that the company put out in response to the Q. 6 6 VRA, called VRA quarterly reports, did outline A. I am. 7 7 O. Were you involved in the drafting of module issues for quite a period of time. 8 Exhibit 11? 8 Were the module issues ever resolved? Q. 9 9 A. I did have some input into some of A. Yes. 10 10 Now, when I say "modules" -- you need this, as did Santee Coopers and as did the two 11 11 to be careful because there are different types of CEOs. 12 I would tell you that this letter 12 modules. The modules in general that we're talking 13 13 really -- while addressed to the two CEOs, the about here are called structural modules, and there 14 14 intended audience was Toshiba. really are in each unit about six of those 1.5 15 structural modules. So five of the six go inside So explain what was going on at this 16 time and what the purpose of trying to get 16 the containment vessel and the last one goes just 17 17 Toshiba's attention was. outside the containment vessel, but all on what is 18 So two things really. 18 called the nuclear island of the plant. And these 19 19 -- when I say "modules," these are -- they range The owners were not satisfied with the 20 20 from things about the size of this room to things pace of improvements at the Lake Charles facility 21 21 that would be five- or six-story buildings. I and other things that were going on around --22 22 specifically around modules, but there were a think the largest is about 70 X 50 X 80. 23 23 couple of other topics that are mentioned in here. So these are very, very large 24 Toshiba was a company that was the 24 components. Much, much too large to ship by rail

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or truck. So they had to come in subcomponents.

parent of one of the Consortium partners, a very

So the Lake Charles facility was largely making subcomponents for these big structural modules.

There are mechanical modules.

Mechanical modules are generally going to be smaller. They might be a set of rails or angle iron. They can be lifted up as a component, and in that component would be pumps and valves and piping and those kinds of things. And the premise is they would be built in a shop environment and be able to be dropped into the excavation and bolted or welded up.

So there are different types of modules. So largely here we're talking about the structural modules.

- Q. And how were the structural module issues eventually resolved? if they were.
- A. Yeah. So in a couple of ways. We talked a little bit ago about the structural module being sent to the site. So structural modules were finished at the site largely for the first nuclear unit, Unit 2. So they would be started at the Lake Charles facility but finished at the facility in Jenkinsville.

The Lake Charles facility itself did make some improvements and eventually was turning

O. What does that refer to?

A. So the Consortium that's building these plants consisted of Westinghouse -- Westinghouse, not being a constructor, partnered with a constructor. The constructor up front was The Shaw Group, but by this time frame in 2014 The Shaw Group had been acquired by Chicago Bridge & Iron or CB&I. So the Consortium partners were Westinghouse and CB&I.

There were a lot of negotiations around commercial issues on this project. The Consortium had heretofore been willing to meet with the owners frequently to discuss commercial issues. Negotiate commercial issues. At this point in time, however, it became apparent that there were some frictions between the Consortium partners, many of which I think that the owners were not necessarily aware of but became aware that there were some tensions between the owners at the high level. I think at the project site CB&I and Westinghouse got along okay. So the problems at the senior level were not transmitting to the site, but it was precluding us from getting to resolution of big picture issues and negotiating commercial issues and wanted to make sure that Toshiba was aware of that.

out quality modules. Some of the mechanical modules also were being fabricated at the site as opposed to other facilities where they were supposed to be fabricated. But the biggest benefit to the modules came when CB&I allowed the supply chain to be diversified. So they took the modules that were supposed to be built in that Lake Charles facility and moved them to other facilities, largely for the second unit, for Unit 3.

So yes; the module issues — the large structural module issues, I think, were largely behind this by about 2016. And those other facilities, while they had some fits and starts with some of the vendors, in large part those other vendors turned out much higher quality parts that met tolerances on a much lower time frame.

Q. I want to direct your attention back to Exhibit 11 and ask you to turn to Page 2. This is the letter to Mr. Asherman and Mr. Roderick, and I want to direct your attention to the third full paragraph on Page 2 which references the evident deterioration of the relationship between senior management at Westinghouse and Shaw and CB&I.

Do you see that reference?

A. I do.

Q. Did the problems within the Consortium; that is, the issues highlighted here in the third paragraph on Page 2 of Exhibit 11, between Westinghouse and Shaw ever get resolved?

A. Yes.

Q. How so?

A. They got resolved by what Westinghouse called a divorce, meaning that they were able to dissolve their consortium agreement or their partnership, and that was in a negotiated agreement that the owners had to allow CB&I to leave the project.

In order to do that CB&I held the parental agreement guarantee for their subsidiary, Stone & Webster. So Westinghouse purchased Stone & Webster from CB&I. The owners -- all of the owners on both projects released the parental guarantee from CB&I. So they exited the project, and at that point those issues or those problems went away.

Q. Another risk factor that SCE&G had disclosed in Exhibit J to the combined -- the joint application related to construction.

Did SCE&G encounter issues with construction at the site?

A. Yeah. I think SCE&G encountered

difficulties with the Consortium and their construction. The Consortium certainly ran into delays, and after the delays started to get sorted out the Consortium then had some issues with what we call productivity. So the productivity factors were not what they thought that they should be and certainly not what the owners thought that they should be and not what was used as the basis for their estimates.

Q. And so I've heard the term "productivity factor." I've heard the term "performance factor."

In your mind are productivity factors and performance factors the same thing?

A. Yes.

- Q. What is a performance factor?
- A. Well, a performance factor can be anything that you want it to be. It's just a metric to look at earned value. But the performance factor that was being utilized in the project that the Consortium was not satisfied with was when the Consortium evaluated how many hours it would take to perform a task. If you take exactly that same number of hours your performance factor would be one. If you take fewer hours to do it

going to make a distance of a hundred miles and it gets 20 miles to the gallon, then you know that it's going to take five gallons of fuel to get there. If something causes that car to be less efficient and it's now getting only ten miles a gallon, you can still get there. You can still get there on time, but it's going to cost you more fuel and it's going to cost you more money for that more fuel

So by applying more resources, more people to the projects and employing other mitigation methods the contract could still get to the dates even though they're being less efficient.

- Q. Did SCE&G take any steps to improve productivity or attempt to mitigate the impact of the schedule that was resulting from the lower than targeted performance factors?
- A. Well, keep in mind that the only person that could really impact the performance factors was going to be the Consortium. So the contractors.

There certainly were some design issues that were impacting productivity, and SCE&G did submit a number of license amendments to the Nuclear Regulatory Commission in order to

your performance factor would be below one. If you take more hours than were forecast to do that then your performance factor would be above one.

So in this case the performance factor was above one, meaning it's was taking more hours to perform a task that they had evaluated.

- Q. In a project like this what is the purpose for which performance factors are used?
- A. It's just a measure of how efficient the contractor is being at getting the work done. So it would -- it would lend itself to tell you -- one of the things that would have helped to validate how long the project is going to take or how much the project is going to cost.
- Q. If a contractor, as here, were not achieving the hoped for performance factors; that is, if the construction was not as efficient as they had hoped it would be, does that necessarily mean that the project is not going to be completed on time?
- A. No. Efficiency can be overcome with numbers.

I think in the previous deposition or the first part of this deposition we had discussed an example of a car and gas mileage. If a car is 1 facilitate design changes.

Q. Let's stop right there for a minute.
So help us understand how that works in the real world. So when you're talking about design changes affecting productivity at the site, can you break that down and walk us through that.

Give us some examples.

A. Yeah. So if the design calls for the craft to run pipe and put hangers at every ten feet to support the pipe — if I physically can't put the hangers every ten feet or if another design change subsequent to the original design has put an impediment in the way and I can't put the hanger there, then I have to move the hanger. Moving the hanger, depending on how important it is, might actually require prior NRC approval.

So under the old way of building plants back in the '50s, '60s, '70s, '80s, under Part 50 I didn't have an operating license; I just had a construction license. I could move that hanger and I could as-build the drawings later and say I've moved it and then I apply for the operating license based on the fact that this hanger has moved.

Since I already have a construction and operation license I don't have the luxury of being

able to simple move the hanger. That obviously makes the craft less efficient that we have to make these moves, and if I change the license we can affect that move. So getting more efficient at license changes was one of the things that the utility could do in order to help the craft get to that construction.

So yes. The license change process had an impact.

Now, the license change process takes time, and in some cases it can take quite a bit of time. So one of the things that the owners did on both projects, both the Summer and the Vogtle project, was partition the NRC for a change to that process. And so in addition to the license amendment request what the utilities came up with what is called a Preliminary Approval Request, and I like to call it "proceed at risk." So that if you made an application to the NRC and they did an up front look and said we don't think this is going to be adverse to safety, they allowed you to continue while the license amendment request paperwork was pending.

Now, the caveat there was if they found something in their full review that said you have

counterintuitive, but if I put on a night shift—so the original premise was we're just going to work on a day shift. If the contract adds a night shift, that's people on nights that you're paying a little bit more for because there is a premium for night shift, they could get more work done, but there is a turnover. So with every turnover comes inefficiency. So they may get more work done, but the PF is actually worse.

So it may seem -- it may not seem intuitive, but some of the things that were done were actually going to decrease the PF but increase the amount of work that was going to get done.

- Q. Did there come a time when the owners decided to withhold payments from Westinghouse?
- A. Yes.
- Q. Tell us about that.

A. So the owners, I think starting in 2014, were withholding payments. There was a couple of different ways. So it really was tiered. The first withholding of payments were for invoices that the owners said were deficient. So no payment was rendered for deficient invoices. That was something that the SCANA legal department came up with. Inasmuch as if you contested an invoice, you

to change this, you would have to go back and take it out again, but it allowed you to continue the construction. So that was one of the things that SCE&G did in order to try to help the construction along, was come up with a more streamlined licensing process.

Continuing on the design front, if constructability issues and changes to design were causing a problem, getting engineering resolution to those was a big issue. If sending paperwork from the site to Westinghouse in Cranberry, Pennsylvania to Shaw in Charlotte or CB&I in Charlotte back to the site was taking time, moving field engineers to the site that had responsibility or authority to make design changes was something else that the utilities pushed the designer for, pushed Westinghouse for, which they eventually did come around to supplying far more engineers at the site. That helped with the construction process.

So there were a number of things that were done to try to increase the productivity factor. The contractors also tried some mitigations to try to get more work done, even though some of those mitigations might actually decrease the productivity factor, which may sound

would be responsible to pay 90% of it. But claiming the invoice is deficient, our legal department felt that there was justification for withholding full payment. So starting in 2014 that was done.

In 2015 the owners started to withhold payments based on things like deficiency and sent a letter to the Consortium, a project letter basically outlining the fact that we're not going to pay for things that are the fault of the delay in the modules coming from Lake Charles, and for craft inefficiencies we are going to start deducting for those inefficiencies and we're only going to pay 90% of those.

So there were a couple of ways that the invoices were being not paid. One was deficient; the other one was withholding for things that were caused by the delay and then withholding for inefficiencies.

Q. We're going to talk in a little while about the October of 2015 amendment, but on the subject of mitigation, after the amendment was there an initiative called Project Bluefin that was implemented?

A. Yes.

Q. What does the term "Project Bluefin" refer to?

A. Project Bluefin refers to a collaborative effort between Westinghouse, Fluor, who was going to join the project as the construction manager but hadn't actually started on the site yet, Southern Company and SCANA to review areas where those four companies in their combined wisdom thought could improve deficiencies at the site

So that happened in — I think the agreement that you're talking about in October was at the end of October. So this activity took place in November and December prior to Fluor actually starting at the site in January of 2016.

(DFT. EXH. 12, copy of letter, 9/25/14 to J. Lyash from S. Byrne, marked for identification.)

BY MR. BALSER:

- Q. Mr. Byrne, you've been handed what we have marked as Exhibit 12, which is a September 25th, 2014 letter from you to Jeff Lyash at CB&I, Stone & Webster. Do you recognize Exhibit 12?
 - A. I do.
 - O. What is Exhibit 12?

progress. It was really intended to compensate the Consortium partners for things like overhead charges that they would accrue as the project went along.

The problem was that under the schedule that was in the original EPC contract for those progress payments, the progress payments would have been completed before the plant was constructed, and that to the owners did not seem like the right thing to do.

- Q. If you turn to the last page of your letter, Exhibit 12, and look at the final paragraph you say that: We've addressed this problem by rejecting recent requests for payments that were not justified by the Consortium's current project schedule, although we have not approved that schedule. Do you see that?
- A. I do.
- Q. What exactly was the problem that you were referring to here that you were trying to address by rejecting recent payment requests?
- A. Well, the Consortium had given to the owners what they called a new re-baselined project schedule and had intended to bill the owners based on that new project schedule. So really I was just

A. Exhibit 12 was an effort on the part of the owners to let the Consortium, in particular Stone & Webster, know that a number of the issues that they had raised in what they called a New Estimate of Completion, that the owners didn't feel were legitimate charges. So in late 2014 or in 2014 the Consortium gave to SCANA and Santee Cooper a new — what they call Estimate to Complete.

So they're saying that they had reevaluated the schedule and costs and that the schedule was going to move out and the costs were going to increase. So this was an effort to let Mr. Lyash, who was the president at the time of CB&I, Stone & Webster -- so their nuclear construction division -- know some of the issues that the owners had with some of the things that went into their delay.

- Q. Was one of the issues that you were trying to address in this letter the fact that the owners' payment schedule had gotten ahead of the actual progress of construction?
- A. Yes. The way that payments were made one of the payment streams was what was called progress payments, which I always thought was a bit of a misnomer. It didn't actually indicate

putting CB&I on notice that we may have issues with that new project schedule and payments that they would propose under that new project schedule.

- Q. Did you disclose to the Public Service Commission that there were problems with productivity at the construction site?
 - A. Yes; certainly.
- Q. Your September 2014 letter that we're looking at here that is Exhibit 12 also mentions a new re-baselined work project schedule.

What is a -- what is the new re-baselined work project schedule? What does that mean?

- A. Where are you reading from?
- Q. Let me find it. It's in the last paragraph on Page 5 of the letter. It's right after the sentence we were just looking at. It says: Once we accept the new re-baselined work project schedule we will reject payments that are not justified by the re-baselined project schedule.
- A. Yes. So the Consortium would issue a fairly detailed schedule that would push out the dates. So the issue here of progress payments was that the further they pushed the date out the earlier the progress payments were fully made

before the — and completed before the project ended. So that just made that delta or that difference worse. And so while the owners were reviewing information given to them — I think it was in August of 2014 by the Consortium — I wanted to make sure that the Consortium understood that just because it's reviewed and it's viewed as reasonable doesn't necessarily mean that payments are forthcoming. 4.

So that's really the intent of this paragraph and their new schedule that they had proffered in August, I think it was, of 2014.

- Q. That was going to be my next question.
 When did SCE&G receive the new schedule from Westinghouse?
 - A. It was in August of 2014.

- Q. And what did SCE&G do when it received the revised schedule from the Consortium?
- A. Two things. First off, formed an NND team, a New Nuclear Development Team, to evaluate the schedule to look at the reasonableness of what the Consortium was proposing and then another NND team or New Nuclear Development Team were looking at cost impacts.

So there were two things that came

of curious. But the NND team did evaluate for reasonableness. There actually were some options at this point in time where the Consortium would say that this is where we think the schedule is, but for a little bit more money perhaps we could shorten that somewhat.

So the NND team looked at the reasonableness of the schedule, whether it was realistic that the Consortium could shorten it, and with the schedule and the reasonableness there they looked at what were called risk factors. So they generated a risk register and said: Yes. Here is the schedule, but here are the risks.

- Q. What is a risk register?
- A. Well, a risk register just would be the -- engineers like to use charts and graphs and those kind of things. So it was really kind of a chart form that said: Risk mitigation. So we've identified the risks to the schedule. So they looked at different facets of the schedule. Hiring might be a risk. And if a plan called for CB&I to hire 3,000 craft and the team said that's a risk that we need to do, mitigation factors might be some hiring plans that CB&I had around that or changes to the labor rates that CB&I had around

along with this August PAC. One was an increase in the dates and the second one was a cost impact. And whatever the Consortium would give you as a cost impact, there were impacts beyond that to the owners because the owners had owners' costs that had to be dealt with, but the Consortium didn't.

Q. Approximately how long did it take the SCE&G team to review the schedule?

- A. Exactly, I don't know. It was a number of months, and that concluded in the first part in the March of 2015 time frame.
- Q. And was there some effort to identify and try to quantify risks associated with different components of the schedule?
- A. Yeah. The NND team or New Nuclear Deployment Team that evaluated the schedule aspects, which included a representative of Santee Cooper, looked at each of the aspects where the Consortium was looking at increasing the duration on activities or utilizing different work methods.

I think this may have been the time frame when they first pointed to what they call the best athlete scenario where they wanted to go out and hire more talent that was going to cost them more money and that kind of thing. So I find kind

that.

So the risk register was an effort to identify the risks to them achieving the schedule and then what mitigation factor would apply to those.

- Q. Who was on the NND team reviewing the schedule?
- A. I'm sure that I'll miss some people, and the team was probably bigger than I saw. But Alan Torres and Kyle Young were certainly on that team. Bernie Hydrick, I believe was a scheduler that was on that team. And those folks would have had other engineers working with them.

I believe that Brett Stokes, who was a general manager of engineering, was either on the team or had people on that team.

- Q. And what was their experience or qualifications to enable them to identify risks associated with the schedule and make determinations about the feasibility of the schedule?
- A. Well, each of the team members brought with them different skill sets. Alan Torres, for example, has 40-some years of experience. Started off in construction on Unit 1; was a quality

assurance/quality control specialist both certified in welding and visual inspection and rendering fueling outages. So obviously scheduling and rendering fueling outages. So a lot of experience there. And a certified nuclear operator.

Kyle Young had done construction projects outside of nuclear and had worked for some private construction companies and I think maybe even a state construction company in Tennessee.

Bernie Hydrick was a scheduling expert and was familiar with running scheduling software, and the engineers that Brad Stokes would have been given would have been engineers following specific issues or problems with the procurement chain. So each of them brought with them different skill sets, but the team is always better than individual components and together they worked through the schedule.

- Q. What was the NND team's conclusion with respect to the schedule based on this work that was done that you just described?
- A. The NND team's conclusion was that the owners should probably not rely on the mitigations to get the dates moved earlier, that the I think it was June of '19 and June of '20 dates were the

break.

THE VIDEOTAPE SPECIALIST: We'll now go off the record. The time is approximately 10:20 a.m.

(Short recess taken.)

THE VIDEOTAPE SPECIALIST: We are now back on the record. The time is approximately 10:29 a.m.

MR. BALSER: Before we commence we have Mr. Bell and others on the line representing the plaintiffs in the Lightsey litigation. And Ed, I think you wanted to make a statement on the record.

MR. BELL: Thank you, David. It's my understanding that today's deposition was noticed by SCE&G primarily for the purpose of the PSC hearing and that when concluded our failure to participate in asking questions of Mr. Byrne will not preclude us from reconvening the final part of Byrne's deposition in the Lightsey matter.

MR. BALSER: SCE&G has no objection to proceeding in that fashion.

MR. BELL: The same, sir?

MR. COX: Yeah. We have no objection either as we discussed yesterday.

MR. BELL: All right. Thank you very

most realistic dates, and then again outline the various risk factors associated with achieving that schedule and what mitigations were planned.

Q. Did the Consortium also provide a new cost estimate for the project at the time that they presented the revised schedule?

A. They did.

Q. And what -- can you just tell us a little bit about that.

A. The Consortium, as they typically did, started off at a very high level and I believe had in excess of a billion dollars worth of charges, some of which were to account for a delay in the module fabrications and then the implications of that on the overall schedule. Some of those were to change up what they call their means and methods. Some of it was to account for increased hiring; some of it was their best athlete where they thought they would have to go out and fire some more big guns in the nuclear field kind of thing. But it was a number of different factors that led to them giving us what the owners thought was a vastly increased cost.

MR. BALSER: We've been going for about an hour and 20 minutes. Why don't we take a short

1 much.

Q. Mr. Byrne, before we want to move I want to make sure I'm clear in my own mind about some testimony that you just gave about the work that the NND scheduling team did.

You had indicated that one of the proposals that Westinghouse made when it provided the new schedule was an option to accelerate the delivery dates. Did I understand that correctly?

A. Yes, you did.

BY MR. BALSER:

Q. What was the proposed accelerated timing that Westinghouse was proposing for an additional fee?

A. I don't recall the exact timing, but I believe that Westinghouse, as originally proposed, was looking at moving the dates to -- for Unit 2 to perhaps the latter part of 2018, and Unit 3 would follow about a year later. So that was the acceleration or potential acceleration that the Consortium was proposing; and again, that would come with a cost.

Q. So let's stop there for a minute. I just want to make sure we're clear about this. So as of August of 2014 when this

67 65 1 1 attachments, marked for identification.) revised schedule and EAC was presented the planned 2 (Continued) I want to ask you if you delivery dates were June of 2019 for Unit 2 and 2 3 June of 2020 for Unit 3? 3 recognize this document. And when I say "this 4 4 document," I'm referring to the slide deck that Let me be clear about this. Α. 5 5 accompanies the email that is the first page of Q. Okav. 6 6 Heretofore the guaranteed substantial Exhibit 13. The slide deck's title is V.C. Summer 7 7 completion dates were -- I believe it was March of Target and T&M Estimate Update dated August 29th, 8 8 2014. '17 and May of '18. 9 9 When the Consortium came in in August Α. Yes. 10 with their new EAC what they had proposed was 10 Q. What is this document? When I say 11 moving it to the first half of 2019 for Unit 2, 11 "this document" I'm referring to the slide deck. 12 Right. So this slide deck appears to 12 about a year later for Unit 3, with the possible 13 acceleration into late 2018. I may have some of 13 be the presentation that the Consortium presented to the owners in late August of 2014, and I believe 14 those dates a little bit off, but I'll cover it by 14 15 15 saying late 2018 for Unit 2 and Unit 3 about a year it was Westinghouse that took the lead on the 16 16 later. presentation materials. 17 So what they offered was an extension 17 If you could turn to Page 28 of the 18 for the guaranteed substantial completion dates 18 slide deck that is part of Exhibit 13. The second 19 19 over what was currently approved with the bullet point states that the current PF equals 20 possibility to pull that back somewhat but still 20 1.41. 21 beyond the current guaranteed substantial 21 What does that mean? 22 completion dates. 22 A. Well, we discussed what PF was earlier, 23 23 and based on the original projections from back in And what did the scheduling team 24 conclude with respect to both the new proposed 24 2008, '08 or '09 time frame, had they hit those 25 25 guaranteed substantial completion dates of June of projections for how many hours it would take to 66 1 2019 and 2020 and the proposed accelerated 1 complete tasks they would have had a PF of one. So 2 guaranteed substantial completion date of late 2018 2 higher than one indicates poor performance or 3 3 for Unit 2? taking longer or more hours. And so this current 4 Well, relative to the proposed 4 PF on the project from what the Consortium is 5 5 acceleration the New Nuclear Development Team saving is 1.41. 6 6 thought that to be not realistic. Q. The next bullet says that: ETC PF of 7 7 With regard to the dates in 2019 and 1.15 to be realized through gradual improvements 8 20/20, the team had actually said that the June and 8 over six-month period. Do you see that? 9 June dates, which I don't believe were the original 9 Α. I do. 10 10 proposal from the Consortium. I think that came in Were you present at this presentation 11 successive months, because the Consortium was still 11 that occurred by the Consortium in August of 2014? 12 refining their estimates. But the New Nuclear 12 A. I was. 13 13 Development Team settled on the June and June What did you understand this bullet 14 dates, June of '19 and June of '20 dates. 14 point, this last bullet point on Page 28 to mean; 15 They thought -- "they" being the team 15 that is, that in order for -- that ETC PF of 1.15 16 16 that you described -- the Alan Torres, Kyle Young, to be realized through gradual improvements over a 17 Bernie Hydrick, Brad Stokes team concluded that the 17 six-month period? 18 June of 2019 and June of 2020 guarantee substantial 18 Α. So the Consortium was rebaselining 19 19 completion dates were realistic and achievable? their scheduling and were now looking based on the Correct. With risks that were 20 20 original projections at not hitting a 1.0 21 identified in the risk register and the proposed 21 performance factor, but their goal or their target 22 mitigations. Yes. 22 was to hit a 1.15 performance factor. 23 Understood. So let me now hand you 23 Obviously they weren't going to do that 24 what we're going to mark as Exhibit 13. 24 overnight, so what they had asked for was to

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gradually get to this 1.15 over a period of about

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(DFT. EXH. 13, email chain with

71 69 1 1 six months. would have to go back to the Public Service 2 Which performance factor number did 2 Commission to seek approval. 3 3 Westinghouse use in its Estimate of Completion (DFT. EXH. 14, Petition For Updates and 4 4 calculation? **Revisions to the Capital Cost Schedule and the** 5 5 My understanding is that Westinghouse **Construction Schedule, marked for identification.)** 6 6 used the 1.15 in their Estimate of Completion. BY MR. BALSER: 7 7 And did you understand that they were Mr. Byrne, you have been handed what we 8 8 committing to achieving that level of productivity have marked as Exhibit No. 14, which is SCE&G's through various mitigation efforts? 9 9 2015 petition for updates and revisions to the 10 A. Yes; a number of which I believe they 10 capital cost schedule and construction schedule 11 outline here in this presentation. 11 that was filed with the Public Service Commission. 12 On Page 30 of the slide deck that is 12 Do you recognize Exhibit 14? 13 part of Exhibit 13 one of the -- the first bullet 13 I do. Α. 14 point on Page 30 says: Estimate includes 14 Q. Turn with me, if you would, to Page 8 15 15 aggressive actions to mitigate schedule and cost of Exhibit 14. Paragraph 18 SCE&G is requesting 16 16 impacts. adjustments to the milestone construction and 17 What did you take that to mean? 17 scheduling capital cost schedule for the project. 18 I took that to mean -- I would say that 18 Do you see that? 19 19 I believe that to be a negotiating ploy on the part I do. A. 20 of the Consortium. So they were going to have to 20 O. And in Paragraphs 19 and continuing 21 take some actions to improve and were letting the 21 SCE&G informs the Public Service Commission that the Consortium had developed a revised fully 22 owners know that it was going to cost money to make 22 23 those improvements, and so they're sort of 23 integrated construction schedule with new 24 softening up the owners for the big cost that was 24 substantial completion dates for Units 2 and 3; is 25 25 going to be associated with this. that right? 70 72 1 Did SCE&G do anything internally to 1 Correct. 2 2 that or validate Westinghouse's Estimate of And was SCE&G asking the commission to 3 Completion provided in August of 2014? 3 approve this annually revised schedule? 4 Yes. There was a -- the financial 4 SCE&G was asking the commission to 5 5 group of the company put together a team to approve both the new milestone schedule and the new 6 6 evaluate the cost impacts of the Estimate of cost schedule. 7 7 Completion and consideration of other things like And if we look at Paragraph 21 on Page 8 8 owners' costs. 8 of Exhibit 14, the new substantial completion 9 9 dates that SCE&G was asking approval for for Units In March of 2015 SCE&G partitioned the 10 10 Public Service Commission for updates to the 2 and 3 were June 19th, 2019 and June 16, 2020 11 construction and cost schedules for the project; 11 respectively; is that right? 12 12 That's correct. correct? A. 13 13 A. That's correct. And if you look at Paragraphs 24 and 25 14 of Exhibit 14 beginning on Page 9, SCE&G says that 14 What were the circumstances that would 15 15 Westinghouse and CB&I are continuing to refine and require SCE&G to have to seek approval from the PSC 16 of the new schedule? 16 update the revised fully integrated construction 17 17 The SCANA regulatory legal team, both schedule as issues for construction designs are 18 18 finalized as additional information is received internal and external attorneys, were of the 19 related to the fabrication of modules, shield 19 feeling that if the schedule fell outside of the 20 20 contingency for any of the 146 milestones in the building panels and equipment, et cetera. 21 21 Do you see that? milestone schedule that was given to the Public 22 22 Service Commission then the company would have to I do. A. 23 23 go back and ask for an update based on the schedule What was your understanding of the 24 and that if the projected costs were going to fall 24 status of the construction schedule as of the date 25 25 outside of the approved costs then the company of submission of Exhibit 14 to the Public Service

Commission?

A. The schedule was dynamic and was always going to be so. I believe that I said in testimony that the schedule can and will change or likely to change.

So the schedule was changing all the time, but the Consortium was obligated to certify a schedule to the owners in accordance with the EPC contract on a monthly basis. So each month there would be a new schedule and each month the completion dates that they estimated for Unit 2 and Unit 3 would change somewhat.

Q. Now, there was consideration at this time of potential schedule mitigation efforts that the owners could employ; is that right?

A. Yes.

- Q. What does it mean to mitigate a construction schedule?
- A. Mitigation means you're applying some new means and methods in order to compensate for the fact that something got delayed and you're trying to improve the schedule.

Mitigation could be that you're using form work for concrete where ordinarily a module might go in that place. Mitigation could mean

figures that you -- the company received from Westinghouse in August 2014?

A. I would say based on it, yes. Reduced for the things that we talked about earlier that SCE&G was, 1, withholding payments for or, 2, reducing payments to 90% for things like deficiency.

It was also netted against the liquidated damages that the Consortium was now going to be responsible for given these new dates were not consistent with the guaranteed substantial completion dates.

So remember, the guaranteed substantial completion dates or GSCDs are a contractual term which kicks off liquidated damages, and based on the Consortium's new estimate that was going to be beyond those guaranteed substantial completion dates, so that would kick off liquidated damages. So the assumption was — and it was baked into the numbers that we used here — is that the Consortium would be responsible for those liquidated damages to the owners.

In addition to that owners' costs were evaluated and put into this filing. So those would be things outside of the EPC cost. And there were

you're putting on a second shift in order to get a longer workday out of it. Mitigation could mean you're applying more resources so that you can get more hours on a certain topic. Mitigation could be that we're going to change from welding connections to bolted connections to improve and, of course, any associated license amendment requests that might go along would be in mitigation.

Mitigation -- a good example of mitigation is when CB&I decided to move the module fabrication for Unit 3 to a variety of other vendors to see improvements in those shops. Mitigation was when SCE&G and Santee Cooper allowed the Consortium to move modules to the site in order to complete them with a more nuclear savvy work force. So there are a lot of things that fall into mitigation.

Q. Now, as you indicated a minute ago, SCE&G also asked the Public Service Commission in this application, this petition that we've marked as Exhibit 14, to approve a revised cost schedule at that time; is that right?

A. That's correct.

Q. And was the request for revised cost schedule based on the updated estimated completion

some change orders that were evaluated and put in here. I think one of the things that was asked for was mitigation at a facility called Newport News Industrial or NNI. NNI was fabricating what is called shield building panels. So these are, again, modular type construction, and these panels would come from the fabricator. Originally planned to be done at Lake Charles but now being done in Virginia at a facility called NNI.

And NNI, so that they could improve the schedule if they could expand the facility, which was beyond -- you know, commercially reasonable. So that that would have to be funded. And so between Southern Company and SCANA they agreed to fund this expansion to NNI. The SCANA portion of that was going to be about 12-ish million dollars. So that was also in what was asked for.

So there were some things outside of just the considerations for the new estimate to complete.

Q. I want to just digress for a second and talk about shield building. We've heard a lot of reference to that. Can you just explain what that means and why it was required and what the purpose of the shield building was.

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The shield building is required in a nuclear plant to perform a function that really protects the nuclear components within it. And so in this design all of the nuclear components, the nuclear reactors, steam generators -- those kinds of pumps -- went inside of a large steel cylinder that was called a containment vessel.

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As a part of the passive cooling system outside of that big steel containment vessel was an annular gap of about four feet. And air would be allowed to flow in this gap and to cool the containment vessel and the water from the tank on top would come down over the containment vessel and enhance cooling. This was a passive cooling system. But then the outside of the annular gap was what was called a shield building, and the shield building, in addition to performing the passive cooling function, would also protect everything inside from impacts. You know, missile impacts. And I don't mean a -- when we say "missile" we mean like a Volkswagen or a telephone pole. That kind of thing. But also from aircraft impact.

So the biggest implications to the shield building really were airplane impact.

Requirements under a new rule that the Nuclear **Regulatory Commission issued called the Aircraft**

Impact Rule. And so this building had to withstand a certain design basis for an airplane traveling at a certain speed, laden with a certain amount of fuel, hitting at a certain angle. That kind of thing.

So the shield building was going to be a fairly robust structure, and it was a steel concrete steel composite. So with steel on the outside, steel on the inside, about a three-foot gap and concrete in the middle with lots of supports. This was going to be built in modular fashion so you could stack the shield building components up in a ring, if you will, fill them -weld them together, fill them with concrete; stack the next one on, weld them together, fill them with concrete.

So those shield building panels were very important and were on what is called the critical path for the units for a long period of times. So that means they were driving the schedule. So any improvements could be made in the shield building were going to be positive.

Okay. So turning back to the petition

that was filed in 2015 with the Public Service 1 2 Commission, did the EAC that SCE&G submitted to the

3 Public Service Commission in Exhibit 14 have as the 4

basis for the updated cost schedule Westinghouse's

assumed performance factor of 1.15?

A. It did.

Did you submit testimony to the Public Q. Service Commission in connection with SCE&G's 2015 petition?

A. I did.

I want to hand you what we'll mark as Exhibit 15, which is your prefile testimony in 2015 docket.

14 (DFT. EXH. 15, copy of Direct Testimony 15 of Stephen A. Byrne, marked for identification.) 16

(Continued) Do you recognize Exhibit 15?

A. I do.

19 Do you recognize that as your direct 20 testimony on behalf of South Carolina Electric & 21 Gas filed in connection with Docket No. 2015-103-E?

A.

23 Q. I want to walk through some of the 24 topics that were covered in that testimony. 25

First I would like to direct your

attention to Page 17 of Exhibit 15, and beginning on Page 9 there is a question about consideration of the most important challenges that the project faces going forward. Do you see that?

A. On Page 9?

Q. I'm sorry. Page 17.

A. Line 9. Yes.

One of the challenges that you mention in this section of your testimony is the challenges to productivity factors; correct?

A. Correct.

And if you turn to Page 20, Line 19, there is a discussion there of productivity factors. Do you see that?

A. Yes.

Q. On Page 21 at Line 11 you state: For various reasons to date, Westinghouse/CB&I has not met the overall PF on which its original cost estimates were based.

Do you see that?

A. I do.

What did you mean by that?

The original -- had they met the performance factor or PF that their original estimate was based on they would have come up with

CSI GLOBAL DEPOSITION SERVICES 972-719-5000

a PF of one.

As I think we saw earlier, by their own admission the PF was 1.41 or something along those lines. So it was not as good as 1.0. It was taking more labor hours to perform the tasks. So that's what was intended by this statement. It was pointing out to the commission that the performance factors that the Consortium had assumed in their estimates, they were not meeting.

Q. So in your testimony you were making the Public Service Commission aware that the actual productivity on the site was not where it was predicted to be?

MR. COX: Object to the form.

- Q. (Continued) What was the purpose for which you made the statement in your prefile testimony on Page 21 beginning at Line 11 that to date Westinghouse/CB&I had not met the overall performance factors on which its original cost estimates were based?
- A. It was letting the commission know really two things. 1, that there was a basis for performance factor or hours that was baked into the original assessment or original estimate that the Consortium had given to the owners and that the

said: Here is why we think we can improve the PF.

Q. On Page 22 beginning at Line 7 you testified, quote: But the possibility that Westinghouse/CB&I will fail to meet current productivity assumptions for the project represents an important risk to both the cost forecast and the construction schedule for the project.

Do you see that?

- A. I do.
- Q. Why did you think it was important to tell the Public Service Commission that?
- A. Well, I think it's fairly straightforward testimony that if the Consortium doesn't improve and we said that there is risk that they wouldn't do that, that it was either going to take longer, cost more, or both.

So it was letting the commission know that even with these higher numbers that we were coming back with for approval and the specific schedule changes to each of the milestones that we're coming back with, there was still some risk that the Consortium might not meet those, and that would have obviously an impact on both schedule and on cost.

Q. What was the assumed performance factor

Consortium was not -- was not as efficient as they had planned to be or wanted to be and that they weren't getting the performance factor numbers. So the estimate would be off based on that performance factor.

- Q. And in the remainder of that paragraph beginning at Line 11 on Page 21 of Exhibit 15 you explain what Westinghouse had told you about why they were confident that the revised performance factors could be achieved. So if you look at your testimony on line -- beginning at the end of Line 18.
- A. Yes. So what I was getting across is really two things. 1 is that the owners were not accepting and were challenging the invoices based on these higher productivity factors and, 2, that the Consortium felt that they could improve on their current performance factors by a variety of things that they had said. And some of their justifications were things like lessons they had learned from China, the fact that the work force was now becoming a lot more comfortable with nuclear construction, the design finalization records that they had gone through. So they had listed some things in the EAC presentation that

used in the EAC submitted by SCE&G in 2015 to the Public Service Commission?

A. I believe it was the 1.15.

- Q. Are you aware of whether SCE&G ran an alternative or alternative EACs using any other performance factor?
- A. Certainly. The New Nuclear Development Team, the financial group of that assessment of the EAC, certainly ran other scenarios, and one of the scenarios they ran was using the performance factor that Westinghouse and CB&I said that they had been achieving on the project so far and had come up with a run of costs based on that high performance factor.
 - Q. Were you involved in that process?
- A. That team was Financial, so it really reported up through the chief financial officer. So I wasn't involved in the evaluation itself. I did, I believe, sit in on a report out from that team.
- Q. Do you know why the decision was made by SCE&G to use the 1.15 assumed performance factor instead of the historical 1.40 performance factor as the basis for the EAC submitted for approval to the PSC in 2015?

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that right?

A.

That's correct.

So by the time that you submitted your

testimony that we were just looking at as Exhibit

87 85 1 15 more than six months from the date that A. Yeah. I think there were a couple of reasons for that, but one of the primary reasons 2 Westinghouse made its presentation in August had 3 was that the SCANA legal team, which included occurred; right? 4 internal and external lawyers, were of the opinion A. That's correct. 5 By the time that you submitted your that anything beyond what the construction expert Q. 6 -- what the contractor told you they could achieve testimony in support of the March 2015 petition had 7 would be speculative and could be considered or the Consortium improved its performance factor to 8 construed as something that the State Supreme Court 1.15? 9 had said that we were not allowed to use, and that A. was contingency. 10 Q. Why, then, did SCE&G still submit the 2015 application for revisions to the cost schedule So to avoid the prospect of being 11 challenged on contingency, what the contractor said 12 based on the assumed 1.15 performance factor? that they were utilizing was what we utilized in 13 Again, it goes back to the same reasons the submission by SCE&G. 14 that I outlined earlier. It was the position of 15 In addition to that I didn't want to -the SCANA legal department that including something the company did not want to allow the contractor 16 other than what the Consortium had pledged to any leeway and did not want to submit for something 17 achieve would be speculative and viewed as with a higher PF than what the contractor was 18 contingency, and contingency was not viewed as committing that they could get to. You never want 19 favorable since we got the order from the State 20 to take the pressure off the contractor. Supreme Court and wanting to hold the contractor's 21 So to allow them to breathe easier and feet to the fire in not submitting for something 22 think the pressure is off would not have been higher than they said they could achieve, with the 23 assumption they could come back then and say: viewed as a positive thing. So in order to keep the pressure on the contractor to achieve what they 24 Well, you submitted this. You've got that approved 25 and that's what we're going to go with. said they could do and avoid utilization were the 86 88 1 real reasons that SCE&G decided to submit on the So that would have been detrimental to 2 1.15. the rate payers, I believe. 3 THE VIDEOTAPE SPECIALIST: Ten minutes Was the Public Service Commission made remaining on Tape 1, counsel. 4 aware that the EAC that was being submitted for 5 MR. BALSER: Thank you. approval in 2015 was dependent on achieving certain 6 mitigation efforts? BY MR. BALSER: 7 So if you could go back with me, A. Yes. Mr. Byrne, to Exhibit 13, which is that Power Point 8 And can you describe what some of those Q. 9 plans to mitigate the schedule and increase presentation that Westinghouse made in August of 10 productivity were at that time. 2014. 11 A. Well, the Consortium had a variety of A. Uh-huh. 12 plans, which included additional hiring. The I want to direct your attention to Page 13 28. Again, we looked at this report before. I Consortium was looking at bringing in more 14 want to take you back to it. subcontractor work force. 15 The last bullet point on Exhibit 28 One of the things that the Consortium says: ETC PF of 1.15 to be realized through 16 was finding and the owners were validating was that 17 the subcontractors aimed at performing a specific gradual improvements over a six-month period. 18 task were actually more efficient than the general Do you see that? 19 work force was that were building the nuclear A. I do. 20 plant. And the date of this presentation, if 21 you go back to Page 1, is August 29th, 2014; is So there were a variety of --

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efficiency.

particularly labor-related items or issues that the

Turn with me, if you would, to Page 34

Consortium was looking at to try to improve

89 1 of your prefile testimony. We're sort of back to 1 have done an evaluation based on all of their 2 Exhibit 15. Sorry to jump around on you. 2 experience and have come up with these new revised 3 3 The page again? 4 4 Q. 34. The information that was contained in 34. With me? 5 5 A. the Estimate to Complete was reviewed by the New 6 6 Α. I'm there. **Nuclear Development Construction Team with** 7 7 Okay. Beginning on Page 34 you provide experience and reviewed both the scope -- so all 8 to the Public Service Commission background for the 8 the items required to complete the units was in the 9 9 revised project schedule that's presented in the schedule -- and the sequencing, meaning that they 10 proceeding and you walk through the history of some 10 were properly sequenced together. 11 11 of the issues that led to a new schedule being So that was the basis for determining 12 12 proposed by Westinghouse; right? it was the best current information that was 13 13 Right. available on the schedule. 14 The first set of issues that you 14 And you informed the Public Service 15 15 describe in this section of your testimony relates Commission in this testimony that the estimates 16 16 to problems caused by the Lake Charles facility. were based on certain assumptions and that were 17 We've already talked about some of those already. 17 dependent on -- and that these schedules and costs 18 And you testified that SCE&G had been publicizing 18 were dependent on mitigation efforts; right? If 19 19 its concerns related to the Lake Charles facility you look at Page 38, Line 19, for example. 20 beginning in 2010 and consistently thereafter. 20 MR. COX: Object to the form. So in your view was this a new issue 21 Right. So what I was letting the 21 Public Service Commission know was it was based on 22 for the Public Service Commission? 22 23 23 No; certainly not. In both testimony productivity factors given to us by the 24 24 contractors, Westinghouse and CB&I; that they were previously before the Public Service Commission, 25 25 the challenges at Lake Charles had been outlined representing that they could meet those and that 90 92 1 and in a number of the daily or quarterly reports 1 that -- I went on to point out that that was going 2 the issues and challenges at the Lake Charles 2 to be a challenge, but, you know, if they were able 3 3 facility had been outlined. to do that that would be a significant benefit both 4 Turn with me, if you would, to Page 38 4 cost and schedule-wise for the owners and for the 5 5 of your prefile testimony. And I want to start on rate payers and for the state. So that it wasn't a 6 6 Line 3 where you say that the schedules that SCE&G basis or interest that the company had in relieving 7 7 has presented here of the current anticipated them of that obligation to try to attain the 1.15 8 8 schedules for completing the units as envisioned by performance factor. 9 9 the BLRA are reasonable and prudent schedules for So I want to focus on this language 10 10 completing the project, and you go on to say at beginning on Line 19 of Page 38. You say that: As to both timing and costs, the schedules are based 11 Line 7: These schedules represent the best current 11 12 forecasts of the anticipated costs and the 12 on productivity factors that Westinghouse/CB&I 13 anticipated construction schedules to complete the represents can be met given the current status of 13 14 project. Do you see that? the project. 14 15 15 What was the basis of your statement A. I do. 16 that Westinghouse and CB&I represented that they 16 What did you base that testimony on; 17 could meet these productivity factors? 17 that is, what was the basis of your testimony to the commission that the schedules that were being 18 A. It was the Consortium in their EAC let 18 19 submitted represented the best current forecast of the owners know that this was the productivity 19 20 the anticipated costs and the anticipated factor that they thought that they could get to 20 21 21 construction schedules to complete the project? over about a six-month period. 22 And you go on to say: Meeting these 22 If you go down to Line 17, that kind of 23 productivity factors will pose a challenge to 23 outlines the basis for the conclusions, and that 24 24 was that the Consortium, who had been contracted to Westinghouse/CB&I. 25 25 Why did you feel it necessary to tell complete these units or to deliver these units,

93 1 the Public Service Commission that the productivity 1 I do. A. 2 If SCE&G recognized that the future factors that were the underlying basis for --2 3 3 MR. BALSER: How much time do I have productivity factors upon which Westinghouse was 4 4 basing its assumptions would be a significant left? 5 5 THE VIDEOTAPE SPECIALIST: 30 seconds. challenge, why did SCE&G feel comfortable 6 6 MR. BALSER: Why don't we go ahead and presenting cost estimates and proposed schedules 7 7 based on those challenging productivity figures? change tapes. 8 THE VIDEOTAPE SPECIALIST: This 8 Well, 1, the company wanted to 9 9 concludes Video No. 1 in the video deposition of challenge the Consortium to achieve what they 10 Steve Byrne. The time is approximately 11:13 a.m. 10 claimed that they could achieve. Secondly, come We are now off the record. 11 11 back to the SCANA lawyers or SCANA legal team's 12 12 (Short recess taken.) position that if you use something other than what 13 THE VIDEOTAPE SPECIALIST: We are now 13 the experts tell you is the case, that would be 14 back on the record. Today's date is October 23rd, 14 speculative and could be viewed as adding 15 15 2018. The time is approximately 11:14 a.m. Please contingency to the project. continue. No. 2 in the video deposition of Steve 16 16 So really for those reasons and the 17 Byrne. 17 fact that you don't want to take pressure off the 18 BY MR. BALSER: 18 Consortium -- those were the reasons for including 19 19 Mr. Byrne, we are on Exhibit 15, Page it, but letting people know that it was going to be 20 20 38, Line 21, and I want to focus your attention on a big challenge for them to hit those productivity 21 the language that says: Meeting these productivity 21 factors. factors will pose a challenge to Westinghouse/CB&I. 22 Was the Office of Regulatory Staff 22 O. aware of SCE&G's position on this point? 23 Do you see that? 23 24 A. I do. 24 I believe they were. 25 25 Why did you think it was important to Why do you believe that? 94 96 1 tell the Public Service Commission that the 1 The Office of Regulatory Staff had 2 2 productivity factors upon which these new forecasts access to the new nuclear team and access to all of were based would be a challenge to Westinghouse and 3 3 the information that the new nuclear team had, 4 CB&I? 4 including information that I would have. So the 5 5 New Nuclear Deployment Team would have discussed 1, to be open with the Public Service the current PFs and what those productivity factors Commission and, 2, that there was skepticism on the 6 6 7 7 project as to whether or not the Consortium could were. 8 do what they were saying that they could do. 8 And in testimonies before the Public 9 9 You go on to say in the next sentence: Service Commission the Office of Regulatory Staff 10 10 But doing so -- that is, assuming they meet the had on numerous occasions voiced their concerns productivity factors -- will benefit the project 11 11 over the schedule of the two facilities and the 12 both in terms of cost and schedule. And what are 12 performance factor of the contractor and the you trying to convey there? 13 13 efficiency of the contractor. That, you know, it's kind of the 14 (DFT, EXH, 16, one-page document, 14 15 opposite of them not doing so and costing more and 15 ORS9 SECG01088115, marked for identification.) taking longer. If they're able to achieve the 1.15 16 BY MR. BALSER: 16 17 17 Q. Mr. Byrne, you have been handed what we productivity factor that there would be a benefit 18 inasmuch as that adds -- they would be able to 18 have marked as Exhibit 16. Have you ever seen this 19 bring the project in at the cost that they were 19 document before? 20 contemplating and on the schedule that they were 20 I'm not sure that I have, no. 21 contemplating. 21 I'll represent to you that this is a 22 On Page 39 on Line 3 you say: However, 22 request for information that the Office of 23 23 SCE&G does recognize that Westinghouse/CB&I has set Regulatory Staff propounded to SCE&G, and in this 24 itself a significant challenge as to future 24 document ORS asks -- states as follows: In your 25 25 productivity. Do you see that? response to Question No. 6 of the ORS and indeed

97 1 1 Consortium or onto Westinghouse where we think it request GCJ-2 you state that the productivity 2 factor of 1.15 was chosen by the Consortium as the 2 belonged. 3 3 basis for the EAC, and the previous values that ORS (DFT. EXH. 17, copy of letter, 5/5/15, 4 4 had seen were actual values. to J. Hyde from A. Smith, marked for 5 5 identification.) Do you see that? 6 Starting --6 BY MR. BALSER: A. 7 7 Starting at the first line of the Q. Mr. Byrne, I'm handing you what has Q. 8 8 been marked as Exhibit 17, which is a letter dated question. 9 9 May 5th, 2015 from Skip Smith to JoAnne Hyde. Α. Yes. 10 ORS goes on to say: However, the point 10 Have you ever seen Exhibit 17 before? O. 11 11 of the question is to explain how SCE&G can accept A. I have. 12 12 a productivity factor as the basis of the EAC that O. What is it? 13 13 reflects a significantly higher level of This is a project letter where the 14 productivity that has yet to be realized during the 14 owners are letting the Consortium know that there 15 15 previous several months of high levels of will be a holdback of payments. So this was, I 16 think, the first time where it was explained to the 16 construction activity. 17 Do you see that? 17 Consortium what the rationale was for contesting 18 I do. 18 these payments and then only paying 90%. A. 19 19 And the company provides a response to And what was going on -- what 20 ORS's question No. 1 on Exhibit No. 16. I would 20 precipitated this letter? A. Well, the fact that the improvements in 21 like you to just take a minute to look at the 21 22 the ratios were discussed in this letter, including 22 response that SCE&G provided in response to the 23 question propounded by ORS. 23 performance factor, had not been improving and that 24 (Witness complies.) Okay. 24 the owners had limited tools with which to deal 25 25 Were you involved with responding to with that under the EPC type contract. And so one O. 98 100 1 this information request? 1 of the things that the owners thought they would 2 2 I don't believe so. try is seeing if they could add some pressure to 3 3 You've now had an opportunity to read the Consortium by withholding funds from them. 4 the company's response to the question propounded 4 I want to take you back to your prefile 5 5 testimony, Exhibit 15, for a minute. If you could by SCE&G. 6 6 turn to Page 39 for Exhibit 15. Do you agree with the response? Do you 7 7 think it's accurate? A. Okav. 8 A. Yeah. I would say this is accurate and 8 At Line 19 -- Line 18 you're asked 9 9 could these schedules change, and in Line 19 you consistent with the discussions that I had with 10 say: These schedules can and almost certainly will 10 SCANA attorneys at the time. 11 11 Q. Did SCE&G continue to make efforts to change. 12 motivate the Consortium to improve productivity? 12 Do you see that? 13 13 Yes; certainly. A lot of the things A. I do. 14 14 that we have talked about heretofore in this O. What did you mean by that? 15 I think as I go on to explain in that 15 deposition, at least up to the point where the 16 company was able or the owners were able to 16 answer is that this is a very complex construction 17 17 transition to the fixed price contract, which would schedule. The Consortium has the responsibility to 18 have been late 2015 where we have the option for 18 certify their schedule once a month, and what we 19 19 the fixed price contract -- because productivity, had seen historically is that was going to change, 20 20 as I outlined earlier, you can be less productive, and with something that is this complicated, 21 apply more resources, and still meet the dates. So 21 particularly when you're looking at mitigation 22 really this became a cost issue. And so once the 22 activities and some of the design issues that the 23 fixed price option was negotiated it took some of 23 Consortium was facing, the project was likely to 24 the pressure off the company to push and to put all 24 change in schedule as mitigations come to fruition 25 the incentive to improve productivity onto the 25 or as issues with design or procurement are

101 103 1 impacting the schedule. 1 some of those things, and that was certainly the Consortium's position. But probably more risk in 2 Okay. And if we go on in your prefile 2 3 3 testimony to Page 40 -- so we're now on Exhibit 15, the payments that were completely withheld based on 4 4 Page 40. There is a section called Disputed Costs

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O. Describe for us what SCE&G was doing to challenge costs as reflected in your testimony.

in which you describe that SCE&G was challenging

several categories of the increased costs.

Doing a couple of things. First off, where the Consortium was making an attempt to bill the company or invoice the company for things that the owners thought were in the fixed or firm category, those were being rejected.

Where the Consortium was invoicing based on productivity factor issues or other things that were contested invoices by the company, the company was only going to pay 90% of those. I don't know if we get into liquidated damages or not.

There were also some delays -- or charges that were caused by the delay. I think an example was tents. So the Consortium wanted to bill the owners for storage tents. In the owners' minds the storage tents were only necessitated by

things like deficient invoices or claiming that the delay caused those and the company just wasn't going to pay them.

So a couple of different categories there that were disputed, but the basic reason is because the company did not want to be in breach. So they were paying the 90%.

- What would happen if SCE&G was later successful in challenging some of those costs that it paid?
- Well, if the company was due any kind of a refund, those would be passed back to the consumer or the rate paver.
- Q. If you could turn back to Page 17 of your prefile testimony, Mr. Byrne.

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Exhibit 15, Page 17. Back to the O. challenges and risks that the project faces. And one of the issues that you raised in this section of your testimony was the issue of maintaining a working relationship with the Consortium while enforcing the EPC contract.

the delay and parts still show up, which we think is a good thing, but now instead of going immediately into the excavation they had to be stored or staged somewhere.

So there were costs that were inappropriate. There were costs that were trying to be passed on to the owners because of the delay that were being rejected and then there were contested invoices, whether contested based on the fact that the Consortium didn't think -- or the owners didn't think that the charges were legitimate or the performance factor and other ratios were not good that were only going to be paid at 90%.

Page 43 of your prefile testimony, Exhibit 15, you explain why these disputed costs are properly included in the cost schedules.

At a high level, what is the answer to that question?

So that the company wouldn't be in breach of the contract. The contract had in it provisions for contesting invoices, and so as to not be in breach the company was going to pay some of those invoices at the 90% level. You know, possibly a stretch to even withhold payments for

1 What was the challenge there? What was 2 the risk?

> A. The risk was that the commercial issues that were arising would start to erode the working relationship of the folks at the site. And, you know, particularly in a situation where you're under an EPC contract and you're not directing the work; you're just overseeing things, a good working relationship with the contractor is directing the work and the activities and using their means and methods is very important, and on a nuclear project it's even more important because of NRC oversight.

So the NRC would hold the licensee, which would be SCE&G and Santee Cooper, responsible even if it was activities that were done by the contractor. So a good working relationship with the contractor at the site level was very important.

- Did the commercial disputes that existed between the owners and the Consortium persist into 2015?
- Yes. It certainly did.
- 23 Did SCE&G ever consider the possibility 24 of litigation with the Consortium? 25
 - Well, I can tell you -- again, that's

105 107 Q. Okay. I want to focus your attention 1 1 outside of my area, but I know that our lawyers did 2 2 on the second meeting; that is, the meeting with contemplate the possibility of litigation with the 3 3 Santee Cooper. Consortium. 4 And if you turn to Page 40 of your 4 A. Uh-huh. 5 prefile testimony, you tell the commission that 5 Are the notes of that meeting reflected Q. 6 6 litigation might occur. below the line --7 7 Correct. Below the horizontal line. Yes. 8 8 Specifically at Line 9, Page 44 of So what do your notes reflect about who 9 9 Exhibit 15, you state that litigation may occur. suggested that Bechtel come in to do an assessment 10 That's correct. 10 on the project? 11 11 So to kind of give a snapshot of where A. It will be LC, which is Lonnie Carter. Q. 12 12 the project was in early 2015, you had a new EAC So to get the shorthand of the 13 13 that was presented by Westinghouse; right? nomenclature down in your note-taking convention, 14 14 Correct. Presented in 2014, but you're can you tell us who was at the Santee Cooper 15 meeting and what your abbreviations reflect. 15 **framing 2015?** 16 A. LE is Lonnie Carter. MC would be 16 O. Right. 17 A. 17 Michael Crosby. KM was Kevin Marsh. Okav. 18 And work had been done by the NND teams 18 Now, there were other people there. I 19 19 to scrub both the schedule and the cost estimates was there and a gentleman from Santee named Marty 20 contained in the revised EAC? 20 Watson was there. 21 21 What do you recall being discussed A. That's right. There was a performance factor 22 22 about Bechtel in this meeting with Santee Cooper 23 assumption built into Westinghouse's EAC that was 23 that is reflected in your notes? 24 1.15 even though historically they had achieved 24 A. It appears from my notes that in this 25 25 February '15 time frame Mr. Carter was proposing 106 108 1 that Bechtel be brought in to do a third-party Α. Right. 2 2 And there were ongoing disputes between assessment. He is letting SCE&G know that one of 3 3 the owners and Westinghouse? his board members has a relationship with the 4 Correct. 4 former CFO of Bechtel, a gentleman named Mike 5 5 Was it during that time frame; that is, Adams. I believe he said that's how the connection 6 6 the early 2015 time frame, that you first learned was made and that Bechtel had already given Santee 7 7 of an effort to engage Bechtel to assist in some Cooper a proposal on what they could do for an 8 8 assessment. way? 9 9 I believe it was. Were you aware at that time of any Q. Α. 10 How did you first hear of the communications between Santee Cooper and Bechtel 10 possibility of Bechtel being engaged? 11 about Bechtel coming in and taking on a larger role 11 12 Santee Cooper had proposed to SCE&G 12 on the project? 13 that an outside or third-party assessment be done A. At this point in time the only 13 and had proposed that Bechtel be brought in to do 14 indication of any conversation between Bechtel and 14 15 Santee was the reference that Lonnie made to one of 15 that outside assessment. 16 16 (DFT. EXH. 18, one-page handwritten the board members having a relationship with a 17 17 Bechtel executive and the fact that Santee had notes, 2/16/15, marked for identification.) 18 BY MR. BALSER: 18 already received from Bechtel a presentation on 19 19 what they could do in assessment for them. Q. Mr. Byrne, you have been handed what we 20 have marked as Exhibit 18. Do you recognize 20 Q. Did you learn at this time who it was 21 Exhibit 18? 21 at Santee Cooper that had a relationship with Mike 22 22 Adams of Bechtel? A. 23 23 What is Exhibit 18? A. I believe that Santee Cooper let us O. 24 24 know who it was, but I don't recall -- I don't These are my handwritten notes of two 25 different meetings. 25 recall which board member it was.

109 111 1 Were you in favor of Bechtel doing an 1 team members? O. 2 2 assessment? A. I heard back some skepticism of Bechtel 3 3 A. I was in favor of an assessment being to do the third-party assessment based on 4 done. I was not necessarily in favor of Bechtel 4 experience that some of our folks had with Bechtel 5 5 in the past. When I say "our folks" I'm talking doing the assessment. 6 about Alan Torres, Ron Jones, Jeff Archie, and 6 Did you interview other companies to do 7 7 the assessment yourself? those individuals who had given me feedback on 8 8 A. I did. Bechtel. 9 9 Who did you interview? O. Bechtel had done a steam generator 10 A. I had communications with three other 10 replacement at V.C. Summer probably in the 1994 entities. 11 time frame, and Mr. Archie had worked directly with 11 12 12 Bechtel in that time frame. That was prior to my So let's go back to your previous 13 question when you say: Were you in in favor of 1.3 involvement with the company, so I was not involved Bechtel? One of the reasons that I -- Bechtel is a 14 14 with that. 15 company that has great capabilities. So I don't 15 Mr. Torres let me know about some 16 16 want to be mistaken on that. But they would be projects that Bechtel had been involved with that 17 viewed in my mind as a competitor by both 17 didn't go very well, including the Watts-Bar 18 18 Westinghouse and CB&I. Certainly those companies nuclear plant in Tennessee. 19 19 all share a lot of the same capabilities and would What did Mr. Torres tell you about the 20 difficulties that Bechtel had had at Watts-Bar? 20 compete in the same market for things. 21 So the concern was that Bechtel would 21 A. What Mr. Torres told me was that 22 22 be viewed as a competitor and that they wouldn't Bechtel -- the way he termed it was "tossed out" by 23 get cooperation that they would really need from 23 TBA as the EPC contractor. 24 the Consortium partners in doing the evaluation. 24 And had he told you anything about 25 25 So that was a big concern going on. whether they were easy to work with or difficult to 110 112 1 1 So my thought process was that if there work with? 2 was a company that would not be viewed by the 2 I don't remember Mr. Torres 3 Consortium members as a competitor but could do an 3 categorizing that. Mr. Archie certainly said that 4 evaluation like this then that might be a better 4 from his experience with the Bechtel folks that 5 5 they were difficult to work with. solution. 6 (DFT. EXH. 19, one-page handwritten 6 So I did have discussions with three 7 7 different entities. Narrowed it down to one, notes, marked for identification.) 8 8 BY MR. BALSER: Atkins, and had Atkins come to Columbia -- I think 9 Q. Mr. Byrne, we are handing you Exhibit 9 it's Atkins International -- so that they could 10 19, which is another set of handwritten notes. 10 cover what their capabilities are in doing an 11 Do you recognize these notes? 11 assessment like this. 12 And who participated in the interview 12 A. I do. 13 What are they notes of? 13 of Atkins besides you? Q. 14 These are my handwritten notes of a 14 A. I don't recall who was in it. 15 meeting that the owners had with Bechtel. 15 Did you ask any of the members of your 16 16 team for their views of hiring Bechtel to perform And there is a date at the top of 17 4/7/15. 17 an assessment? 18 18 Do you believe that is the date of the A. I did. At some point, I think, after 19 meeting that is reflected on your notes? this Santee shared the proposal or the pitch that 19 20 20 Bechtel had given to them, and I had forwarded it A. 21 Who was in attendance at this meeting? 21 to a couple of members of the New Nuclear Q. 22 Kevin Marsh, myself, Michael Crosby, 22 Development Team and just asked them for their 23 and Marty Watson. So Michael Crosby and Marty 23 assessment. How do you think Bechtel would do on 24 Watson are Santee Cooper. Kevin and I are 24 the third-party assessment? 25 25 obviously SCANA. Q. And what did you hear back from your

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In addition to that from Bechtel was Mike Adams, Craig Albert, and Carl Rau.

- Q. About halfway down the page there is a notation, and it starts with a K. And I don't know if it's -- the only K is probably Kevin Marsh; is that right?
 - A.

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The question appears to be how CB&I viewed Bechtel.

What does that reference? What was the --

- A. Kevin Marsh was just asking a question about how Bechtel thought that they would be viewed by Chicago Bridge & Iron.
- And your notes reflect that CA, who is Carl Albert --
 - Α. Craig Albert.
 - O. Craig Albert of Bechtel said what?
- "Initially not well. The concept of an owners' engineer (I think this is what they want) is not foreign to them."
- What does the parenthesis mean? Tell us what that means.
- The parenthical there, "I think this is what they want," is my assessment of what Bechtel

A. My feelings at the time were that that would not have been a good idea, for a couple of

First off, I think we had talked earlier about some issues between the Consortium partners. So this was CB&I and Westinghouse that were partnered on this project. They had a consortium agreement on this project and they were having some issues. So introducing now a third party was going to potentially make that situation even worse, which became more manifest as time went on. When we actually got to the evaluation I think we had just started some negotiations to allow CB&I to exit the program and then introducing an owner's engineer like Bechtel, somebody that Westinghouse would view as a competitor, was then just going to strain relations even more. So more in the opposite direction than what we wanted to.

Secondly, let's say a school board were to want to build a new school and the school board doesn't really have any experience with construction. They might hire an owner's engineer to advise on how the contractor is doing with regard to the construction process. But in the situation that SCE&G and Santee Cooper were in they

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appeared to be angling for.

And so can you just spell that out for Q. us a little bit.

Yeah. So an owner's engineer is somebody that an inexperienced party on construction project management might bring in to advise them when they're dealing with a contractor that's building or constructing something for them or doing a project for them.

So "owner's engineer" is kind of an amorphous term, but it really means you can have somebody from outside come in to advise the owner.

- What was leading you to have the impression at that time that Bechtel was trying to pitch to be hired as the owner's engineer on the project?
- Well, 1, the fact that they utilized the term "owner's engineer." So that was kind of a tip-off. And I don't think it was in the question, but then it's in the answer that they're familiar with an owner's engineer. So that led me to believe that that is what they were angling for.
- What were your feelings at the time about whether it was a good idea for the owners to hire an owner's engineer on this project?

hired in-staff in order to facilitate oversight of construction. And at this point in time it was probably 600 people, maybe 150 to 200 of which were dedicated to oversight on some of the construction.

So essentially under the EPC contract that SCE&G had and with the oversight plan that SCE&G was providing it had its own owner's engineer that it hired in. So bringing in another owner's engineer was going to be redundant.

And lastly, I'm aware of the fact that Santee Cooper does projects differently than SCE&G did. So Santee would opt to be directing the work as a general contractor and not enter into an A, B, C type of agreement. And, of course, those are generally going to be on much smaller projects. Natural gas plant, for example, and that kind of thing.

So the difference in philosophy really meant that what Santee Cooper might have been interested in in conversations with Bechtel was having Bechtel start to direct activities. That would have worked against the EPC contract and would have meant more change orders and more cost. And so while an owner's engineer might let the

24 25 owners know what the difficulties are, the

119 117 1 difficulties are not a secret to SCE&G or to Santee 1 was hired by our internal lawyers because of his 2 Cooper. We're well aware of what the problems and 2 construction litigation experience. 3 3 what the issues were. And who is Ty Troutman? 4 4 So the concept of having anybody come The president of Bechtel Power A. 5 5 in as owner's engineer was probably something I Corporation. 6 6 would have said I was not in favor of, and then Q. Had you known Mr. Troutman before 7 7 having somebody that would have been viewed as a Bechtel became involved with this assessment? 8 competitor would have meant I would have been not 8 A. I had met Mr. Troutman one time prior. 9 9 favorable. He had called me and said: Look. You're going to 10 Q. Ultimately Bechtel was engaged? 10 be at this meeting in Washington. Let's have a A. 11 They were. 11 get-acquainted meeting. Meet in the hotel before 12 our meeting starts at 7 o'clock. 12 And to your understanding what was the purpose for which Bechtel was engaged? 13 13 So I met him one time prior to this, a I was informed that Bechtel was going 14 14 get-acquainted type meeting. 15 15 to be engaged and I was informed that the -- by our Was it in the same general time frame 16 of their pitching for this work or was it --16 legal department that that was for the purposes of 17 potential litigation down the road and that they 17 I don't remember exactly when it was. 18 would be engaged by an outside law firm. 18 Since it was just a get-acquainted type meeting I 19 (DFT. EXH. 20, Professional Services 19 didn't take notes of the meeting. It was probably 20 Agreement, marked for identification.) 20 sometime in late '14 or early '15, but exact time 21 BY MR. BALSER: 21 frame I don't recall. 22 So I don't know if at that point in 22 Q. Mr. Byrne, you have been handed what we 23 have marked as Exhibit 20, a document entitled 23 time Santee had made their pitch to bring Bechtel 24 "Professional Services Agreement." 24 in. So I'm not sure what the time frame was. 25 25 Have you ever seen Exhibit 20? Q. Understood. So turn -- if you would, 118 120 1 A. I don't know that I have. I don't know 1 there is an Attachment A to the Professional 2 that I have. I just don't know that I have seen 2 Services Agreement that we've marked as Exhibit 20 3 Exhibit 20 before. 3 which describes both the assessment objectives and 4 Q. I'll represent to you this is a 4 the execution approach. 5 Professional Services Agreement entered into 5 The first paragraph on Page 1 of 6 between Bechtel and Smith Currie & Hancock, which 6 Attachment A says: The objective of Bechtel's 7 is a law firm, a construction law firm based in 7 assessment is to assist SCH, which is Smith Currie 8 Atlanta, Georgia. And if you turn to Page 5 of 8 & Hancock, and owners in better understanding of 9 9 this agreement it's signed by George Wenick on the current status and potential challenges of the 10 10 behalf of Smith Currie & Hancock and Ty Troutman as project in anticipation of litigation and also to 11 help assure the project is on the most cost 11 president of BPC. 12 Do you see that? 12 efficient trajectory of completion. 13 Is that consistent with your A. I do. 13 14 understanding of what Bechtel was being asked to Do you know who George Wenick is? 14 15 15 do? Α. 16 Have you ever met George Wenick? 16 It is. And I have seen that language Q. 17 in other places. I think it may have actually been 17 A. 18 What is your understanding of who 18 in a presentation that Bechtel gave to the owners O. 19 George Wenick is? in October of '15. 19 20 20 To your knowledge was Bechtel asked to The SCANA legal department hired George 21 do any alternative schedule analysis? 21 Wenick prior to this. I can't remember when. I 22 No. No. I don't -- I don't recall 22 believe that George Wenick was hired perhaps even 23 them ever being asked to run a schedule. 23 back when the EPC was presented to the owners, and 24 24 the owners were looking at complex negotiations Did you attend Bechtel's presentation 25 25 of its preliminary findings on October 22nd, 2015? with the Consortium over that EPC. George Wenick

121 123 Your notes say "CR" -- is that Mr. Rau? 1 1 O. A. I did. 2 (DFT. EXH. 21, copy of Preliminary 2 A. Carl Rau. 3 Results of Bechtel Assessment, marked for 3 -- Carl Rau of Bechtel said: Would 4 4 have to go much deeper to accurately predict SKED identification.) 5 5 BY MR. BALSER: probabilities. 6 6 Q. I'm handing you what we've marked as Can you tell us what that means? 7 7 Exhibit 21. Do you recognize Exhibit 21? "SKED" or S-K-E-D is my shorthand 8 8 notation for "schedule." So this was Carl Rau I do. Α. 9 9 explaining to the owners that they would have to go Q. What do you understand Exhibit 21 to 10 be? 10 much deeper to give us an accurate schedule. 11 11 And that was what -- so Mr. Rau of This was a draft of a presentation that 12 12 was given to the owners by Bechtel at the Bechtel was saying that they would have to go 13 conclusion of their third-party evaluation. 13 deeper? 14 Q. Do you recall the individuals from 14 A. That's correct. 15 15 Bechtel who were present at the presentation? In the bottom right-hand corner of the Q. 16 16 I know I have some notes on that page of your notes there is a reference to -- it 17 17 says: Little real eval time. Do you see that? presentation, and it's in those notes. I believe 18 that Craig Albert, Carl Rau were present. I know 18 A. Yes. 19 19 What does that refer to? that there was a guy named -- I think it was Jason O. 20 Moore. There were probably a couple of others. 20 The entire assessment that Bechtel did A. 21 Was Ty Troutman present at that 21 Q. was only about seven weeks, I think it was by their 22 22 meeting? count, and they -- I don't think that they were 23 23 working on the schedule for the entire time such No. No, he wasn't. Α. 24 You referenced your notes. I'll hand 24 that -- you know, in order to run a schedule they 25 those to you. We'll mark those as Exhibit 22. 25 had fairly little real evaluation time, and I only 122 124 1 (DFT. EXH. 22, copy of handwritten know of one person from Bechtel that worked on the 2 notes, 10/22/15, marked for identification.) 2 schedule. So that this was a -- I thought that 3 3 Q. (Continued) You have been handed what they would have needed far more time and effort in 4 we have marked as Exhibit 22. Do you recognize 4 order to rerun the schedule. 5 5 Exhibit 22? Your notes go on to say in the lower 6 6 right-hand corner: Focus on docs. Couldn't get A. I do. 7 7 O. What is Exhibit 22? more redaction. What does that mean? 8 These are my handwritten notes from the 8 Bechtel spent a lot of time explaining 9 9 that they couldn't get ahold of information, meeting that we're discussing here on October 22nd, 10 10 the draft presentation from Bechtel. documents from Westinghouse primarily or the 11 Where did this meeting occur? 11 Consortium in general or that when they -- even 12 It took place in SCANA's headquarters 12 when they did get documents they oftentimes would A. 13 be in redacted form. 13 building in Cayce. 14 14 What was your reaction to Bechtel's So it was a complaint throughout the 15 conclusion of the new project schedule in its 15 evaluation process that continued here in the presentation to us about what they couldn't get 16 presentation? 16 17 17 I would have to say I was surprised by from Westinghouse. 18 the inclusion of the project schedule in the 18 Q. What was your overall impression of the 19 level of detail of the usefulness of Bechtel's 19 presentation. 20 Did you think Bechtel had enough 20 schedule that was included in the October 2015 21 information to rerun a project schedule? 21 presentation? 22 I did not think that they had access to 22 A. I thought it was -- it included some 23 the information that they would need to rerun a 23 fairly high level assumptions. So, you know, 24 schedule, nor did I think they had the resources at 24 honestly I didn't find it very useful; and again, I 25 the time either to rerun the schedule. 25 was a little concerned that they were angling to

get to work on the project. And so if that was their goal was to get work on the project then making things look or sound worse than they were would allow them to then come in and be a white knight to save the day kind of thing.

So I was a little skeptical of their motives since a rerunning of the schedule was not asked for and their high level assumptions — you know, they limited the work hours. They limited the work shifts. They limited the amount of people, which was, you know, far different than what even CB&I at the time and certainly Fluor later was going to attempt to staff up to. So some of their limitations I found to be unrealistic.

- Q. You note -- again, in these notes in the lower right-hand corner of Exhibit 22 there is a notation that says: Focus on their expertise/experience. Do you see that?
 - A. I do.

- Q. What does that refer to?
- A. From the first time that we met with the Bechtel team back in April all the way through everything that they did they harped on the amount of number of years of experience that they had in their team and really tried to play that up to the

accurate. In addition to what Carl Rau said, I believe in the assessment there was a warning not to make changes to your baseline schedule based on what they had come up with.

- Q. Did you ever have a conversation with anyone at Bechtel about the October 22nd presentation?
- A. I know I had a -- outside of the presentation you mean?
 - Q. Yes.
- A. Yes. Anybody from Bechtel -- I know I had a conversation with Ty Troutman. I think he's the only person I had a conversation with about their assessment.
- Q. Tell us what you remember about the conversation with Mr. Troutman.
- A. I know that Mr. Troutman gave me a call in December of 2015 and asked me what was up with the assessment.

You know, I told him that from my perspective I was a little disappointed in the quality of the assessment overall, that I would have expected more from a company like Bechtel, particularly with the amount of experience that they claimed to have on it.

point where I thought they really oversold it.

Q. Were the owners receptive to having Bechtel play a role on the project?

A. I think -- if I were to answer from the SCE&G perspective, I would say that not receptive, and on the Santee Cooper side I think that Michael Crosby was receptive to that. I don't know how strongly the other members of the Santee team felt.

- Q. Did you think that Bechtel's assessment of the schedule contained in its October 22nd, 2015 preliminary assessment was reliable?
- A. I did not think it to be reliable based on some of the assumptions that they made that were not things that the current Consortium or later Fluor was looking at pursuing.

The fact that they didn't have enough time and the fact that they had complained about not getting access to enough information or documents — in fact, I believe it was Jason Moore that made reference to the fact that they had received some schedule information on a CD and it was too big to even run. So they couldn't run the scheduling CD.

So all of the stuff that they said led me to believe that the schedule may not be

He complained about some things that George Wenick was doing, but I was not privy to those, so I couldn't really discuss that with him. He had much more information on that than I did. He asked me at the tail end what I thought was the next steps with the assessment, and I told him that from my perspective as far as I was concerned the presentation that they gave us was nothing.

- Q. What did -- do you recall what he said about his discussions with Mr. Wenick, what the issue was?
- A. I don't I don't recall any specifics about that. I just remember that he was complaining about George Wenick making comments on the report, but I don't remember specific details.

 No.
- Q. Did you discuss the schedule assessment with Mr. Troutman in this telephone conversation in December of 2015 that you just described?
- A. I don't recall discussing it with him
 specifically.
 O. Did you have any other conversations
 - Q. Did you have any other conversations with Mr. Troutman about Bechtel's assessment?
 - A. Not after that. I did see Mr. Troutman, I think, on site once. I believe he

129 131 another set of your handwritten notes. 1 attended a -- what do you call it? Alignment 1 2 meeting, is what we termed it, between the owners 2 Do you recognize Exhibit 23? 3 and Bechtel. That would have happened on site, so 3 A. I do. 4 I had seen him and would have talked to him at that 4 What are they? O. 5 5 These are notes of a meeting relative point in time. But as far as I recall that was Α. 6 6 about it. to the third-party assessment between SCANA and 7 7 Did you -- to the best of your Santee, which was also attended by George Wenick, 8 8 recollection sitting here today did you ever the attorney for the Atlanta law firm that you 9 9 discuss this schedule assessment with Mr. Troutman? referenced earlier that happened in January of '16. 10 A. I don't recall. I'm not saying I 10 So this is -- these are notes of a 11 meeting January 14, 2016. And who do your notes 11 didn't do it; I just don't recall doing it. 12 reflect attended from Santee Cooper? 12 Q. Were you ever interviewed by anyone at 13 13 Bechtel in connection with the assessment? A. From Santee Cooper it was Lonnie Yes. As a part of the assessment they 14 14 Carter, their CEO; Mike Baxley, who is their 15 general counsel; Michael Crosby; Steve Pelcher, who 15 interviewed -- Bechtel interviewed a number of 16 is an attorney for them, and Marion Cherry, who was 16 members of the SCANA leadership team, myself 17 included. So I had an interview with both Carl Rau 17 their representative at the project site. 18 and Dick Miller. 18 From SCANA it was Kevin Marsh; Jeff 19 What do you recall about the details, 19 Archie; myself; Ron Lindsey, who is a general 20 if any, of that interview? 20 counsel, and Al Bynum, who is our internal attorney 21 21 of nuclear activities, and then George Wenick from A. What I recall about the interview was 22 22 it was far shorter than I had anticipated it would the Atlanta law firm. 23 be. If it was 30 minutes I would be surprised, and 23 Q. So what was the purpose of this meeting 24 I had allocated an hour plus for the meeting. And 24 as you recall? 25 in my mind if you didn't have an opportunity to sit 25 I don't recall exactly what the purpose 130 132 1 down with somebody who was the president of the 1 of the meeting was. 2 2 company and two very high level folks from Bechtel In looking through the notes it appears 3 3 that they should engage in, you know, a much more that it's an opportunity to talk about the 4 detailed conversation. It was fairly superficial 4 third-party assessment that was done by Bechtel and 5 5 what to do with it. from that respect. 6 6 They asked me some questions about So your notes reflect that Mr. Wenick 7 7 organization and structure, and I was a little bit was there. His abbreviated initials are "GW?" 8 surprised by Carl Rau asking about -- asking for 8 Correct. 9 9 details about the negotiations revolving the And he began -- it seems based on your Q. 10 notes that he gave an overview of why we engaged 10 Consortium. 11 Bechtel. Is that what that reflects? 11 So at this point in time the Consortium 12 had approached the owners and said CB&I would like 12 A. That's correct. 13 to get out, and the negotiations around that were And then his next set of comments says: 13 14 ongoing that led to the October of 2015 agreement I'm just counsel looking for guidance. Many 14 15 Bechtel recommendations moot by new agreement. 15 to do that. Mr. Rau appeared to know some details about that, which puzzled me and was pressing me 16 Do you see that? 16 17 A. I do. 17 for more details, and I let him know that, you 18 know, whatever was going on I'm under a 18 O. What does that mean? 19 That the -- this meeting happened after 19 nondisclosure agreement and I'm not going to 20 the October -- I think it was October 27th of the 20 21 2015 agreement that allowed CB&I to exit, which 21 (DFT. EXH. 23, copy of handwritten 22 also amended a number of provisions of the EPC 22 notes, 1/14/15, marked for identification.) 23 contract. And so what -- Mr. Wenick was of the 23 BY MR. BALSER: 24 opinion that many of the recommendations from 24 Mr. Byrne, you have been handed what we

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Bechtel were rendered moot by the agreement that

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have marked as Exhibit 23, which appear to be

133 135 1 1 had been entered with Westinghouse that allowed report. 2 CB&I to exit. 2 So it's like asking to borrow your 3 3 O. Were you involved in negotiating the watch and telling you what time it is. So that was 4 2015 amendment? 4 -- those things are not going to be a surprise when 5 5 they got them from either the Consortium or from Α. I was. 6 6 Q. And you spent a lot of time doing that? the owners. 7 7 I certainly did. A. There were some things in the report 8 8 that I would say were beneficial things that the Fair to say that in the August to 9 9 owners should look at. I don't know that there October 2015 time frame the negotiation of the 2015 10 amendment was one of your primary focuses at that 10 were any big "ah-ha" moments in it. I recall there 11 11 time? being some things in the engineering area that we 12 12 I would say it was the primary focus thought we'll take a look at it. There were some 13 for September and October. 13 things relative to morale. How do you get --14 perhaps celebrate victories better; that, you know, 14 So there were issues that Mr. Wenick 15 15 said were mooted by the 2015 amendment. we probably don't do a good enough job of 16 16 What about the issues that weren't celebrating the victories. But I don't view those 17 mooted by the 2015 amendment? What was going on 17 as material. 18 with those? 18 So I didn't think that from their 19 19 Well, of course, at this point in time recommendations there was anything in there that 20 -- this is January of '16. The report from Bechtel 20 was really at a big picture. They did recommend 21 was still a draft. I call it a draft; they call it 21 that SCE&G needed more EPC experience or help, 22 22 preliminary. But it had only been that October -which I viewed as them wanting to get in as the 23 that I knew of they had only the October 22nd of 23 owner's engineer. So that was one that SCE&G 24 '15 draft, and there weren't a significant amount 24 disagreed with. 25 25 of details or recommendations in that in order to So there were some things that we were 134 136 1 -- you know, to handle -- but all of the 1 not in agreement over. So that's how I would kind 2 recommendations relative to the Consortium, the 2 of characterize as a big picture of improvements. 3 3 Consortium not getting along, and the Consortium Going back to your notes on Exhibit 23, 4 needs to do this. With the breakup of the 4 I want to focus on Mr. Wenick's comments that are 5 5 reflected in your notes. Consortium that rendered moot most of those points. 6 6 There were some things in it that So we were looking -- I directed your 7 7 would need to be addressed by the owners, but it attention to Mr. Wenick's comment about many 8 8 Bechtel recommendations moot by new agreement. wasn't until the final report came out -- I think 9 9 The next line says: Re SKED -- and it was in February of 2016 that the owners then 10 that's schedule; right? 10 took that final report and did an evaluation for 11 A. Yes. 11 which things were no longer applicable based on the 12 agreement and bringing in Fluor and then which 12 O. "They would need to have 'more robust' 13 look at schedule concern with Bechtel method for 13 things would yet need to have some access to. 14 schedule prediction." 14 With respect to the issues that SCE&G 15 What does that mean? What is that 15 had known about and was aware of for the Bechtel --16 16 referring to? well, strike that. 17 It just means that in Mr. Wenick's mind 17 Was there any issue regarding the 18 18 that in order to come up with a good schedule they project raised in the Bechtel report that SCE&G had 19 would need a more robust approach, a more robust 19 not previously been aware of? 20 look at the schedule, and he was concerned with 20 I would say that at a macro level the 21 some of Bechtel's methods for schedule prediction. 21 owners were aware of all of the issues that were 22 He goes on to say: If we don't -- and 22 presented in the Bechtel report, and I say that 23 there is a delta sign. Does that mean "change?" 23 because in large measure what Bechtel did was they 24 24 interviewed the owners' team, they interviewed the A. Change. That's correct. 25 25 Q. "If they don't change their prediction Consortium's team, and then regurgitated that in a

			35 (Pages 137 to 140)
	137		139
1	will be viewed as owner's opinion - consequences."	1	or revising Bechtel's report?
2	What do you recall Mr. Wenick saying	2	A. No, I did not.
3	there?	3	Q. Let me hand you what we've marked and
4	A. He was of the opinion that even if it's	4	what we're going to mark as Exhibit 24.
5	a third party that makes a statement that you don't	5	(DFT. EXH. 24, Bechtel Project
6	necessarily agree with unless you contest it or	6	Assessment Report, 2/5/16, marked for
7	change it then it will be viewed as your opinion.	7	identification.)
8	You know, that opinion could come with	8	Q. (Continued) Do you recognize Exhibit
9	consequences.	9	24?
10	Q. Wenick then goes on to say so	10	A. I do.
11	Mr. Wenick says: Disclosure issues potentially.	11	Q. What do you understand it to be?
12	I'm construction lawyer and I'm telling you that	12	A. I understand this to be the final
13 14	much of info provided is not useful, particularly schedule, which is based on quote, dire	13 14	report on the third-party assessment that Bechtel
15	predictions, close quote.	15	did on the project. Q. Did you receive a copy of this final
16	A. Correct.	16	report?
17	Q. What do you recall Mr. Wenick conveying	17	A. I did.
18	about that subject?	18	Q. When did you receive it?
19	A. What I remember him conveying is	19	A. I don't recall exactly when I received
20	exactly what I've written down here. "Dire	20	it. I got it from our legal department. And it
21	predictions" was in quotes because he used that	21	would have been sometime after February the 5th,
22	term. So this is somebody that the company has	22	but I don't recall the exact date.
23	hired for their for expertise, and Mr. Wenick	23	Q. This report, Exhibit 24, doesn't
24	was advising our law firm and our internal lawyers	24	include the scheduling information that was in the
25	and lawyers from Santee Cooper, because it was	25	October presentation.
	138		140
1	really a joint retention. And so the person that,	1	Were you involved in removing the
2	really a joint retention. And so the person that, you know, our legal teams had hired to give advice	2	Were you involved in removing the schedules from the prior assessment to the final
	really a joint retention. And so the person that, you know, our legal teams had hired to give advice was giving advice.	2 3	Were you involved in removing the schedules from the prior assessment to the final report?
2 3 4	really a joint retention. And so the person that, you know, our legal teams had hired to give advice was giving advice. MR. COX: Can I get a break?	2 3 4	Were you involved in removing the schedules from the prior assessment to the final report? A. No, I was not.
2 3 4 5	really a joint retention. And so the person that, you know, our legal teams had hired to give advice was giving advice. MR. COX: Can I get a break? MR. BALSER: Sure. It's 12:20. Let's	2 3 4 5	Were you involved in removing the schedules from the prior assessment to the final report? A. No, I was not. Q. Did the owners take any action to
2 3 4 5 6	really a joint retention. And so the person that, you know, our legal teams had hired to give advice was giving advice. MR. COX: Can I get a break? MR. BALSER: Sure. It's 12:20. Let's go off the record.	2 3 4 5 6	Were you involved in removing the schedules from the prior assessment to the final report? A. No, I was not. Q. Did the owners take any action to follow up on any of the recommendations in the
2 3 4 5 6 7	really a joint retention. And so the person that, you know, our legal teams had hired to give advice was giving advice. MR. COX: Can I get a break? MR. BALSER: Sure. It's 12:20. Let's go off the record. THE VIDEOTAPE SPECIALIST: We will now	2 3 4 5 6 7	Were you involved in removing the schedules from the prior assessment to the final report? A. No, I was not. Q. Did the owners take any action to follow up on any of the recommendations in the Bechtel assessment?
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141 about the Construction Oversight Review Board? 1 1 the Chief Executive Officer for SCE&G, was the 2 2 Α. That's right. point person for SCE&G on the Bechtel assessment. What did the CORB do? 3 3 He was the coordinator for it. Q. 4 The CORB was intended to answer the 4 O. Who was involved in the Project 5 5 Assessment Report, like creating this and managing perceived issues or questions around oversight on 6 6 the project, and it was actually an idea that I 7 7 came up with in order to take advantage of Well, certainly Mr. Cherry, Mr. Archie, 8 experience from outside the project that could 8 and Mr. Archie would have included some members of 9 9 change as the project developed. So the project his staff. I know that Kyle Young had been 10 would go through different phases. It was 10 involved in it, who was a manager at the new envisioned that the CORB membership could change. 11 nuclear group. Ron Jones who was a VP for nuclear 11 12 12 The CORB membership would be visiting the site construction would have been involved. So 13 roughly once a quarter and evaluating and then 13 Mr. Archie would have had a number of his staff reporting out to the two CEO's. 14 14 that were involved in this. (DFT. EXH. 25, email chain with 15 Q. And were changes made and improvements 15 made as a result of the Project Assessment Report attachment, marked for identification.) 16 16 17 BY MR. BALSER: 17 process? 18 18 Mr. Byrne, you have been handed what There were some proposed changes that 19 19 we've marked as Exhibit 25, and I want to direct were made as a result of this process that were 20 presented to both boards of directors. 20 your attention to both the cover email and the 21 21 Q. When we were looking at your notes attachment. 22 Do you recognize Exhibit 25? before we talked for a minute about George Wenick's 22 23 comment that the 2015 amendment had mooted many of 23 A. I do. 24 What is it? 24 the issues that had been raised in the Bechtel O. 25 25 It's what the owners called a Project report. 142 144 1 1 Assessment Report or PAR, P-A-R, and this Project Can you -- let's go back to that time 2 2 frame starting in either late August or early **Assessment Report took issues from the Bechtel** 3 3 September of 2015. Can you walk us through what report and was -- this one, I believe, was giving 4 Santee Cooper's input to those issues. 4 led to -- I want to talk in some detail about the 5 So the attachment to --5 amendment, but what led to the discussions about O. 6 6 I should be clear also. There were the amendment. What was going on at the time? 7 7 some issues in addition to what was in the Bechtel Late August, early September the 8 report that were included by the owners. 8 Consortium members -- we were still dealing -- the 9 9 So this was a Project Assessment Report company still dealing -- the owners were still 10 10 that was prepared by the owners that identified dealing with commercial issues with the Consortium. 11 certain issues raised by Westinghouse -- I mean by 11 It was getting difficult to get the Consortium 12 Bechtel and then other issues. It was kind of a 12 members in the same room at the same time. The 13 tracking spreadsheet? 13 leadership team I'm talking about, not the project 14 Yes. That's correct. A. 14 level folks but their executive leadership team. 15 In the column that says "Santee Cooper 15 Some things didn't seem to be going 16 comments," is that a -- does that reflect comments 16 well. And so CB&I and Westinghouse asked the 17 that Santee Cooper provided input on with respect 17 owners to meet, without necessarily giving a reason to the issues that are identified in the third 18 18 for the meeting. In the meeting they proffered 19 column? 19 some nondisclosure agreements and said that they 20 That's correct. And the person that 20 wanted to propose something but that the companies 21 was -- if you look at the first sheet, from Marion 21 would have to sign NDAs in order to review the 22 Cherry to Jeff Archie. Marion Cherry is Santee 22 information, and after doing so Westinghouse and 23 Cooper. So Marion was sending his comments to 23 CB&I let the owners know that things weren't 24 Mr. Archie. 24 working well, that CB&I wanted out of the project, 25 I should point out Mr. Archie, who is 25 and Westinghouse wanted to let them out of the

project.

I know Mr. Marsh questioned CB&I representative there relative to why, and the CB&I representative indicated that he saw the project headed towards litigation and that he didn't view the Consortium relationship working any longer and thought that one entity needed to be in charge.

So that was kind of the kick-off to the negotiations, changes to the EPC contract, which we sometimes call the October of 2015 amendment. So since Westinghouse wanted CB&I to leave that was the leverage that the owners needed to renegotiate some portions of the EPC contract.

(DFT. EXH. 26, Amendment to the Engineering, Procurement and Construction Agreement, marked for identification.)
BY MR. BALSER:

- Q. Mr. Byrne, you have been handed what has been marked as Exhibit 26. Is this the October 2015 EPC amendment?
 - A. It is.
- Q. What were some of the key aspects of the 2015 EPC amendment from your perspective?
- A. Well, the owners evaluated what kind of things that we would like to see different in the

language, it seemed -- a simple language change could take care of most of that. And so it really tightened up what the Consortium would be allowed to take a change order for. So that was viewed as a very positive change.

It did allow CB&I to exit. It just reaffirmed the parental guarantee for Toshiba Corporation over the project now. It eliminated some bonus payments for increased output from the units that the Consortium felt like they would likely achieve. So it eliminated those bonus payments. That wasn't viewed as an incentive for them to finish on time; it was viewed as reducing the overall cost at the tail end if those bonus payments could be eliminated.

Q. And, of course, one of the primary if not the primary aspect of the amendment was the fixed price option?

MR. COX: Object to the form.

A. The — if we read through the rest of this, certainly the large liquidated damages was a big part of it. It resolved a majority of the commercial issues that existed at the time between the two companies, save for some things that were still being negotiated, whether it was entitlement

EPC contract and went about trying to negotiate to get to those things.

So one of the biggest things was what I would call the carrot and the stick, incentives for the Consortium to finish on time or the penalties should they not finish on time. And the Consortium had really, I think, acquiesced to the fact that they were going to pay all the original liquidated damages. So that was no longer becoming incentive for them to finish. So the goal here was to incent them to finish on time and meet production tax credits.

So between the increase in liquidated damages and the bonus for completion, that total swing would be about a billion dollars. So that there were some -- what the owners thought was really money on the line for the -- Westinghouse in this case now since the Consortium has been absolved, for Westinghouse to complete the units on time and qualify for production tax credits.

Another key change was the wording around what constituted or allowed a change based on a change in the law. The Consortium heretofore had been making claims about changing the law that the owners didn't necessarily agree with, and the

-- and those were specifically listed in a separate exhibit or attachment to this. Guaranteed substantial completion dates were moved back. I think it was about two and a half months.

Another big aspect was the change in reference to the design certification document. So a DCD 16 was what the plants were — what the contract was signed to, but what the plants were actually licensed to was the latest revision of that design certification document or DCD, which was Rev. 19. So that caused some commercial disputes between the owners and Westinghouse as well. So this was going to clear up the fact that the price was relative to DCD Rev. 19, the most current revision of the DCD.

It allowed for a dispute resolution, a
Dispute Resolution Board or DRB, and the whole
intent of that Dispute Resolution Board or DRB was
to bring quicker resolution to commercial issues.
It also eliminated the 90% payment provisions where
there were disputed invoices such that the dispute
now, while there should be fewer disputes, would go
to the DRB and get timely resolution as opposed to
hanging around for many, many years.

Q. Going into the negotiations with

149 151 1 Westinghouse over -- that led to the amendment, was 1 payment schedule but that that could take a number 2 there a goal set internally at SCE&G about trying 2 of months. And so there was an interim payment 3 3 to obtain a fixed price option? schedule outline until the construction milestone 4 4 The notion or concept of a fixed price payment schedule could be agreed upon. 5 option had been discussed, understanding that that 5 So the concept was agreed upon; the 6 6 fixed price option would come with a risk premium. actual milestones were not yet agreed upon. 7 And so that was discussed during the negotiation 7 And the parties eventually actually 8 8 could not agree? process with Westinghouse. And originally 9 9 Westinghouse came back with, I think, a fairly high MR. BALSER: Let's go off the record. 10 risk premium, but that was negotiated down to 10 THE VIDEOTAPE SPECIALIST: Off the 11 11 roughly 500 million. I think it might have been record. The time is approximately 1:50 p.m. 12 (Discussion off the record.) 12 505. Something along those lines. But around a 13 13 \$500 million risk premium basis for fixing the THE VIDEOTAPE SPECIALIST: We are now price going forward. And in the agreement what the 14 14 back on the record. The time is approximately 1:53 15 15 owners got was an option for a year at the owners' p.m. 16 MR. BALSER: After a brief hiatus to 16 so discretion to exercise that fixed price option. 17 Did the management view -- management 17 fix a technical problem we're back on the record. 18 of SCE&G view the fixed price option as a 18 If I could ask the court reporter just to read back 19 potentially beneficial way of moving forward? 19 the last question and answer before we went off the 20 A. Certainly I think the -- I can speak 20 record. 21 for the SCE&G side. I think the Santee side felt 21 (The court reporter read the previous 22 22 the same way, that a fixed price would offer question and answer.) 23 protections to the company, protections to the rate 23 BY MR. BALSER: 24 payers, and would simplify things. So things that 24 So let me ask that -- so to pick up 25 25 where we left off, the October 2015 amendment the company accountants would have to monitor to 150 152 1 ensure that the Consortium wasn't trying to bill 1 contemplated that the parties would agree upon a 2 2 construction milestone payment schedule; right? for something they shouldn't or double bill for 3 3 things. If it's a fixed price option then that no That's correct. 4 longer is the case. 4 Q. The parties were unable to reach an 5 5 So the fixed price option was certainly agreement on a construction milestone payment 6 6 viewed as positive. Another positive outcome I schedule: correct? 7 7 think that both companies were looking favorably Yeah. The parties had reached at least 8 8 on, both Santee and SCANA, was the construction tentative agreement on the milestones but were not 9 9 able to reach agreement on the cash flow associated milestone payment schedule. So where schedules in 10 10 the past were perhaps out of step with where the with the milestones. 11 project actually was, a construction milestone 11 And that issue; that is, the cash flow 12 12 payment schedule would eliminate the old progress associated with the milestones, was actually payments and substitute a construction milestone 13 litigated in front of the DRB in 2016? 13 14 That was referred to the DRB in 2016. 14 payment schedule for all of the payments, meaning 15 15 that if Westinghouse didn't hit a milestone then the end of 2016. I think the company filed with they weren't getting paid. So again, incentive for 16 the DRB or the owners filed with the DRB October --16 17 17 them to start hitting milestones and getting the I'm sorry. August the 1st of '16. 18 18 plant done. Were you involved in the discussions You mentioned the creation of the DRB. 19 with Westinghouse as to the interim payments that 19 O. 20 would be made monthly from the time of the 20 Was a fixed construction milestone 21 payment schedule agreed upon at the time the 21 execution of the October amendment and agreement 22 upon a final construction milestone payment 22 October 2015 amendment occurred? 23 23 No. It was agreed upon that schedule?

24

25

A.

I was.

All right. Tell us what you recall

Westinghouse and the owners would work together to

try to come up with a construction milestone

24

about those discussions and what agreements were reached between the parties on that.

So both sides, the owners and Westinghouse, acknowledged that we didn't at current have a construction milestone payment schedule even though it was agreed that we would switch to that payment method and that it might take some time in order to get to that point -- I don't know how long exactly it was contemplated, but probably something along the lines of four to six months -- and that Westinghouse had asked for an amount of money to be paid in lieu of the construction milestone payment schedule that would allow them to make the transitions that were contemplated in the October of 2015 agreement, bring Fluor onboard, allow Fluor to start ramping up the work force in order to hit the guarantee substantial completion dates.

So what they essentially asked for was ramp up funding, if you will, and allow them to continue to operate while we negotiated the construction milestone payment schedule.

The amount that they asked for was something fairly high. I think it was 140 or 130 million dollars a month, and then a lot of back and

A. That's correct.

Q. What was the process that the company used to inform the Public Service Commission of the October 2015 amendment?

A. The company had an ex parte briefing with the Public Service Commission, let the Commission know what was in the October agreement. Also let the Commission know that the fixed price option portion of that agreement would be evaluated and that when that evaluation was complete that the company would come back with whatever decision was made, whether it was to exercise the fixed price option or not in a formal litigated hearing proceeding.

(DFT. EXH. 27, copy of Allowable Ex Parte Communication Briefing, marked for identification.)

BY MR. BALSER:

Q. Mr. Byrne, you have been handed what has been marked as Exhibit 27. Do you recognize this document?

A. I do.

Q. What is it?

A. This is a presentation used at the ex parte briefing with the Public Service Commission

forth about, you know, what the right number is, and it was agreed upon that -- we settled on, if you will, a hundred million dollars a month.

Q. And then was there an understanding as to whether there would be a true-up at some point; and if so, how would that work?

A. Certainly both owners believed that the agreement called for a true-up such that there would be — even though the payments were made to Westinghouse, Westinghouse would still generate invoices as if it was under our old tracking system, and that the invoices would be utilized in order to effect a true-up at the end of the period.

Q. Did that occur?

A. The true-up did not occur. One of the issues that the DRB dealt with was this true-up provision. And I don't think the owners thought that the true-up provision was even in question up to that point in time, but that Westinghouse, through their attorneys, did complain about the true-up provision and asked the DRB to -- not to enforce the true-up provision, and the DRB agreed with it.

Q. So it was a litigated issue in front of the DRB?

after the signing of the fixed price option -sorry. After the signing of the October 22nd EPC amendment.

Q. Were you present along with Mr. Marsh and Mr. Addison at the ex parte briefing?

A. I was. All three of us presented at that meeting.

Q. I want to direct your attention to Page 3 of Exhibit 27, which is a slide entitled "Goals of Negotiations."

Does this slide accurately reflect what SCE&G's goals in negotiating the October of 2015 -- 2015 amendment were?

A. I would say yes, it does.

Q. Page 5 of Exhibit 27 includes a description of how SCE&G plans to move forward, and there is a reference to Fluor's assessment of the impact on the schedule. Do you see that?

A. I do.

O. What does that refer to?

A. It was referring to the fact that Fluor was going to do -- as is the case when any new constructor comes in, they want to utilize their own means and methods to accomplish the task, do their own staffing studies. Those kind of things.

Fluor was going to do a review of the schedule, and Westinghouse was directing that. So in the arrangement that was going to take place January 1st, Westinghouse was the only EPC counter-party inasmuch as they owned themselves and they own now Stone & Webster. And Fluor, rather than being a consortium partner, was coming in as a contract and construction manager. So that Fluor was going to do their assessment of the schedule and input to Westinghouse so that we could get a new integrated project schedule.

Q. Was bringing Fluor on the project seen as a positive for the project?

1.5

A. Yes. I would say that Fluor was viewed as positive for a number of reasons. One is their prior nuclear experience, which included V.C. Summer Unit 1, which SCE&G had been operating there at the Jenkinsville site.

Fluor had actually done construction on another reactor that was adjacent to the site called the power reactor back in late '50s, early '60s, and Fluor had been involved in the nuclear industry at a number of places, still had a nuclear group, and actually operated their nuclear group out of Greenville, South Carolina.

arrangements. So Fluor, for example, was the constructor of the last couple of power plants that SCE&G built. They were combined cycle gas plants. The last couple of big modifications that the company had done were an addition of scrubbers at some of the big coal plants. And again, under the EPC arrangement Fluor was the constructor there.

So the experience of SCE&G with Fluor was good. Their ties to the state were positive. Their nuclear background experience was positive. So yes; very positive.

Q. Directing your attention back to Page 5 of the slide deck that we've marked as Exhibit 27, the second bullet point says: Evaluate value of the risk premium associated with fixed price option.

What does that mean?

A. Well, as I said earlier, with a fixed price or a fixed price option the contractor now is assuming risk for things that otherwise they might be able to pass on to the owners if they changed.

So with each contractor will come some risk premium on the part of the contractor, and when it's a fully fixed price you would expect that to be fairly significant. So the risk premium

The CEO at Fluor was a University of South Carolina graduate. The person that SCE&G and Southern Company in fact were going to deal with was a Furman graduate. So a lot of ties to the state of South Carolina. But a significant amount of experience and a different arrangement inasmuch as they were not in a consortium arrangement any longer with Westinghouse. And their leadership, the Fluor leadership, was viewed as a change, which would be a positive change for the project.

Fluor's ability to hire also was viewed as positive, and we did see that come to fruition that Fluor was able to hire. And in presentation materials -- I've been to presentation materials with Shaw and CB&I and other companies, and almost everybody shows you metrics on how many contracts they have, what kind of backlog they have, what awards that they've won and all this kind of thing, but Fluor was the only one that was able to tout that they have won awards for being the most ethical company in the business.

So yeah. I think that Fluor 's involvement was positive. In addition to that, SCE&G had positive experiences with Fluor and recent positive experiences with Fluor in EPC

associated with exercise of the fixed price option was roughly \$500 million. And so what the owners wanted to do was evaluate how much they thought there was value in paying that \$500 million risk premium.

So if the new EPC was viewed as rock solid and you could depend on it then you wouldn't necessarily want to spend \$500 million in risk premium. If you thought that there was risk there and it was more than that \$500 million value, you would transfer that risk to the contractor, and that's what was done.

- Q. And so the company undertook an analysis to try to determine whether to exercise the fixed price option?
 - A. That's correct.
- Q. Who led that effort?
- A. It was a multi-primed effort, but the financial evaluation was done by the generation planning group and Joe Lynch.
- Q. And what determination did the company make -- did SCE&G make as to whether it made sense to exercise the fixed price option?
- A. So the company did a sensitivity analysis. That sensitivity analysis involved

changing different factors. I think there were 24 different solutions to that sensitivity analysis, and a vast majority of them — I think it was something like 20 out of 24. It said that exercising the fixed price option would be beneficial. So only a minority of those would it not have been beneficial.

In addition to that, some of the anecdotal information that was coming out of Fluor at the time was that they certainly understood that they needed to hire more people, that they wanted to put on a full night shift, a full second shift or night shift. And so you're going to pay a premium for the night shift, and hiring more people meant more money.

So the mitigations that Fluor was looking at, the mitigations that Westinghouse was looking at, all pointed towards it costing more money. So in addition to the sensitivity analysis done by Dr. Lynch, the anecdotal information coming out of the project was that it was going to cost more money.

Q. And you indicated a few minutes ago that as part of the October 2015 amendment the guaranteed substantial completion dates were moved

guaranteed substantial completion dates to the August '19 and August '20 dates that were in the amendment. It was to take that schedule and then from a cost perspective take all of the other cost issues that were agreed to in that amendment, include them in the petition, and then exercise the fixed price option. Get approval for exercising the fixed price option.

Q. Did you submit prefile testimony in connection with the 2016 petition?

A. I did.

(DFT. EXH. 29, copy of Direct Testimony of Stephen A. Byrne, marked for identification.) BY MR. BALSER:

Q. Mr. Byrne, do you recognize Exhibit 29?

A. I do

Q. Is this the testimony you submitted in connection with the 2016 petition?

A. This was my prefile testimony, yes.

Q. If we could turn to Page 9 of Exhibit 29.

A. Okay.

Q. Starting at Line 13 you were asked to describe the amendment. The first thing you note is resolution of current disputes.

back to -- a few months, August of 2019 and August of 2020.

A. And that was sort of -- those were Westinghouse dates. So those were the dates that Westinghouse wanted.

Q. So as a result of the analysis that the company did that you just described did the company file a petition with the Public Service Commission in 2016?

A. They did.

(DFT. EXH. 28, copy of Petition of South Carolina Electric & Gas, marked for identification.)

BY MR. BALSER:

- Q. Do you recognize Exhibit 28?
- A. I do.
- Q. What is it?

A. This is the filing the company made in 2016 when it was looking to include the cost of the EPC and exercise the fixed price option.

Q. At Page 4 of the petition the petition describes the background for the request.

What, in a nutshell, was SCE&G seeking to do with this petition?

A. SCE&G was seeking to reset the

Why was the resolution of the disputes with the Consortium important to the project?

A. Well, some of these disputes had existed for a number of years, so it would be -- I don't think it would have been viewed as successful to go through a protracted negotiation with the Consortium, settle things and then not settle some of the outstanding commercial issues that existed between the companies.

So this also would lay the ground work for a better working relationship at the project level, at the site level so that everybody was now in the same footing going forward. So the Consortium understood that they were going to be awarded some of these change orders, perhaps if there were contentious before, and everybody understood what the basis was.

So it was to settle long-standing disputes and create a better working relationship on the plant site.

Q. You refer at Line 19 to the new liquidated damages provisions. What -- can you describe what the new liquidated damages provisions were.

A. Yes. So tied to the guaranteed

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substantial completion dates — again, contractually the guaranteed substantial completion dates kick off liquidated damages such that if the project isn't delivered by the guaranteed substantial completion date, it starts the clock running for liquidated damages.

Previously the liquidated damages number was about a fourth of what they were under this provision. So it was a significant increase. You know, a fourfold plus increase in the amount of liquidated damages.

- Q. Why in your view was having a liquidated damages figure as high as this important; that is, in the \$371 million range?
- A. I think the liquidated damages number was important because liquidated damages are an incentive for the contractor to complete in a timely fashion.

So the previous liquidated damages number really, I think, had been already broken by the Consortium. They had acquiesced to the fact that they were going to have to pay it. This was going to reset everything and quadruple the amount of liquidated damages.

So what the companies wanted was an

Q. The change in law definition we've already talked about. That's on Page 11.

Let's look at -- let's go to Page 15 where you describe that the amendment accomplished a restructuring of the Consortium. That starts at Line 15.

Why was restructuring the Consortium important to the project?

A. Well, important for a couple of reasons. 1, the Consortium desired to restructure themselves, and the owners thought that it was also important to allow that to happen.

By restructuring, of course what we mean is that we're allowing CB&I to exit, and for CB&I to exit they still were responsible for parental guarantee, and the owners would have to relinquish that parental guarantee, which now would all transfer over to Toshiba in order to let CB&I exit.

So in order for Westinghouse to effectuate some of the mitigation, some changes that they wanted to see in the project, CB&I would have to exit. So that meant a fundamental restructuring of the Consortium.

Q. Which is what allowed them to bring

incentive for the contractor to complete these units. So between the liquidated damages here, which I would call the stick, and the performance bonuses, which I would call the carrot -- between the carrot and the stick it was about a billion dollars. And these numbers, of course, in the petition that SCE&G is filing is a 55% number. You would have to increase that by 45% to get the Santee Cooper portion as well.

- Q. You've testified already about the positive incentive of a bonus payment for completion of the units in time for the company to receive the tax credit -- the federal reduction tax credits. That figure as reflected at Line 8 on Page 10 of your testimony is 165 million.
- A. And again, that's SCE&G's 55% portion. The total number for both owners would have been higher than that, on the order of 250 million.
- Q. At Line 15 of Page 10 there is a reference to parental guarantees.

Why was a parental guarantee of particular importance to this project?

A. The short answer is the legal team was pushing this. So the lawyers handled that aspect of things. I really was out of that.

Fluor in under the restructuring?

A. Uh-huh.

Q. At that time had Fluor already started to focus on making improvements on the project? And I would direct your attention to Page 18 of your testimony.

A. So what — Fluor was to start on the project once the deal for Westinghouse to buy Stone & Webster closed. That deal didn't close until the end of 2015. I think it was literally December 31 of 2015. So it was always envisioned that Fluor — it was CB&I up to that point. So that Fluor would start on the project on January 1. Since January 1 is a holiday functionally that's probably the 3rd or 4th. I don't know when the real first day of work was. But essentially the first of January Fluor would come on.

Prior to Fluor showing up at the site they went through -- and one of the things being described here is Project Bluefin, and Project Bluefin was an effort by -- a combined effort by Westinghouse, Fluor, Southern Company and SCANA to get together to discuss potential improvements to the work streams. And what I mean by "work streams" is what it takes to get people to the

169 171 1 project, what it takes to get the work done on the 1 coming in with fresh eyes to review the project 2 project, what it takes to get parts and pieces to 2 schedule that Westinghouse was the custodian on. 3 3 the project. So work packages, for example, would So it was an opportunity for Fluor to put their need to be streamlined so the craft could actually 4 4 brand on the schedule, if you will, and give us a 5 go out and work more efficiently. 5 fresh set of eyes on the schedule. 6 6 If Fluor was to increase the staffing On Page 9 in the first full paragraph 7 7 of your 2016 testimony you say: Nonetheless, this significantly, they wanted to make sure the 8 8 in-processing -- the process itself was as remains a very complex and challenging project. 9 9 streamlined as it could be. So those were the Meeting the current schedule will require a great 10 kinds of thing that Fluor, Southern, SCANA, 10 deal of construction management skill. 11 Westinghouse were looking at on this project. 11 What did you mean by that? 12 12 So prior to Fluor showing up on site That even with the new schedules, the they went through that effort, an effort that was 13 newly reset guaranteed substantial completion 13 14 described to me by the New Nuclear Development Team 14 dates, that there was still risk in the schedule 15 15 and still mitigations that would be required, and folks that are involved in it as the best effort 16 16 they had seen like this, and they were very those mitigations would need to be handled with 17 companies that would be adept at handling those 17 heartened by the level of effort that both 18 Westinghouse and Fluor went through to support this 18 and Westinghouse and Fluor were going to have to 19 work together, albeit in a different arrangement 19 effort. 20 If we could turn back to your Page 6 of 20 than had been in effect before with the Consortium O. 21 partnership. Now Fluor is working directly for 21 your 2016 testimony, which we have marked as Exhibit 29. It's the document you're in. 22 Westinghouse. 22 23 23 So that Westinghouse would have to A. Uh-huh. 24 manage this project and allow Fluor to make the 24 I want to direct your attention to your 25 mitigations relative to get the project done. 25 testimony about the new guaranteed substantial 170 172 1 completion dates. 1 On Page 22 of your testimony, your 2016 2 2 testimony which we've marked as Exhibit 29, you So starting at Line 13 you testify as 3 to what the new guaranteed construction --3 were asked to describe the fixed price option. 4 substantial completion dates are for the units, and 4 Can you just briefly describe for us then beginning at Line 19 you testified that the 5 5 what the fixed price option that the company 6 substantial completion dates are reasonable. 6 elected was. 7 7 What do you base your conclusion that A. Yes. So the company asked the 8 the new guaranteed substantial completion dates are 8 contractor, Westinghouse, what it would take to 9 9 reasonable? complete the units from here, and Westinghouse gave 10 10 Well, first off, these proposed the owners the to-go cost. So they picked a date 11 substantial completion dates were what the 11 certain, and I think it was in June of 2015. So 12 contractor requested when negotiating the 12 that the fixed price was going to be: This is what 13 amendment, the 2015 amendment, October 2015 13 it's going to cost you from June of '15 onward. 14 amendment. So on the one hand the contractor is 14 So that there wouldn't be any changes 15 15 asking for these dates, which were moved back about to it. So it was locked in. There was no 16 two and a half months from the previous dates. And 16 escalation associated with it. It was a fixed 17 secondly, the SCE&G's New Nuclear Development Team 17 price, save for -- I think it was 30-some million 18 and Santee Cooper had had an opportunity to review 18 dollars that the company carved out of T&M; that 19 -- and again, similar to what we talked about 19 the owners felt that they could actually effectuate 20 before, that all of the components were in the 20 for less money than was in the T&M that would be 21 schedule and the sequencing was logical. 21 money that would be given to Westinghouse. 22 You told the PSC in your 2016 testimony 22 At the time of the 2016 petition had 23 23 that Fluor was continuing to review the project SCE&G decided to elect the fixed price option? 24 schedule. Why was that necessary? 24 A. At the time of this petition? 25 25 The owners wanted the new constructor Yes. Q.

173 175 1 1 target, and then escalation factors associated with A. Yes. 2 O. And did you inform the PSC of that 2 some other firm areas of the contract. Yes. 3 3 decision? Were there other benefits to electing a 4 4 We did. fixed price option? Α. 5 Q. And I think you might have already 5 A. There were some other benefits. One of 6 6 fully described this. And I want to give you the the benefits is you would not -- you would now not 7 7 opportunity to look at your testimony on Page 25 to have to review as closely all the invoices that the 8 see whether there is anything that you wanted to 8 contractor was providing. You didn't have to fight 9 9 add, but what was the basis for the decision to over things like how many four-wheel drive vehicles 10 10 elect the fixed price option? that they were buying, because it was all locked 11 A. I think I did describe it earlier. 11 into the fixed price. 12 12 So there were some anecdotal The arguments over the commercial 13 information coming out of the project from --13 disputes over things like tents, those would go away because everything was going to be in the 14 particularly from Fluor but even from Westinghouse 14 15 15 that said the mitigations that they were about to fixed price. So there were other benefits to 16 16 undertake were going to cost more money. There was electing the fixed price option. 17 more people, and more people translates to more 17 In consideration of electing the fixed money. Increase the second shift, paying shift 18 18 price option did SCE&G consider whether, if it were 19 19 premiums -- that translates into more money. to elect the fixed price option, that the 20 20 So the information coming from there likelihood of increased productivity would 21 would indicate that it was going to cost more. The 21 increase? 22 22 information that the company had experience with A. I think -- a couple of things to that. 23 23 the contractor not hitting their performance One is the biggest thing is incenting 24 24 factors. So again, the performance factor doesn't the contractor to improve productivity. And once 25 25 in and of itself mean you'll be late; it just means the fixed price option was there, as long as they 174 176 1 you're going to have to put more resources on with finished on time the productivity number was not as 2 2 a poor performance factor in order to get the date. important. So whether they employed more people to 3 3 So that, again, was going to indicate more money. get the same amount of work done or not, as long as 4 And then the sensitivity analysis that 4 the owners were not paying that price then that was 5 5 going to be okay. So that the pressure on the was done by Dr. Lynch where he varied the cost of 6 6 labor and the PFs to come up with what was thought productivity, if you will, was off from the 7 7 as reasonable amounts, the majority of those runs perspective of the companies, but was on the 8 8 would say that it was going to be favorable to pick contractor. 9 9 the fixed price option. So the biggest incentives for the 10 10 Was Dr. Lynch's sensitivity analysis contractor to improve were: Yes. They were on a 11 shared with the Office of Regulatory Staff? 11 fixed price. So getting it done faster would help. 12 As far as I know it was, and it was a 12 The longer the people are there the more it would part of this proceeding as well. Dr. Lynch was a 13 cost them. So that would help. 13 14 14 witness in this case too. The carrot and stick that I talked 15 THE VIDEOTAPE SPECIALIST: Five minutes 15 about earlier, the performance incentive for remaining on the tape, counselor. 16 16 finishing on time and finishing in time to qualify 17 17 BY MR. BALSER: for production tax benefits and then the increase 18 18 So based on this analysis that you've in liquidated damages that they would not pay as just described did SCE&G determine that electing a 19 long as they came in time -- those were viewed as 19 fixed price option was the cheapest option for 20 incentives, combined with the construction 20 21 SCE&G and its customers? 21 milestone payment schedule. So for them to get 22 22 SCE&G thought that it was likely going paid they needed to hit milestones. 23 23 to be a lower cost to accept a fixed price option So, you know, those things combined

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were viewed as a significant incentive for the

contractor to improve their own efficiencies, but

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than to go with the old contract, which was based

on some portion being T&M, some portion being

		45 (Pages 177 to 180)
	177	179
1	really to finish on time.	1 Q. So as of August 5th, 2016 the docket
2	MR. BALSER: Let's change the tape.	2 initiated by the petition that we just looked at
3	THE VIDEOTAPE SPECIALIST: This	3 for 2016 was still open?
4	concludes Video No. 2 in the video deposition of	4 A. That's correct.
5	Steve Byrne. It is approximately 2:28 p.m.	5 Q. And there was a meeting at which
6	(Short recess taken.)	6 representatives of Westinghouse, Fluor, ORS, SCANA,
7	THE VIDEOTAPE SPECIALIST: We are now	7 the co-ops, Central and
8	back on the record. Today's date is October 23rd,	8 A. South Carolina Energy Users Committee.
9	2018. The time is approximately 2:34 p.m. This is	9 Q and SCEUC were present?
10	Video No. 3 in the video deposition of Steve Byrne.	10 A. That's correct.
11	BY MR. BALSER:	Q. What was the purpose of that meeting as
12	Q. Mr. Byrne, did SCE&G consider that	you understood it? What was the topic that was
13	Westinghouse may not carry through and finish the	being discussed?
14	project under this new fixed price option?	14 A. The purpose of the meeting was to give
15	A. I think that in the terms or in the	the groups that were represented here, the groups
16	vein of contingency planning, that was looked at or	that you just read off, the opportunity to
17	evaluated. I don't believe that there was any	interface with Westinghouse and Fluor and answer
18	specific reason to believe that Westinghouse would	their questions. That was the purpose of it.
19	not, and in fact Westinghouse made representations	Q. What do you recall about that meeting?
20	to the company and I think to the Office of	A. I thought that the meeting was a good
21	Regulatory Staff that they understood that they	meeting. The SCANA folks, as you'll notice, didn't
22	were likely to lose money on this project and that	say anything. So the SCANA folks that were there
23	they were in this for the long haul and their aim	just sat back and listened. And so it really was
24	really was selling AP1000s around the world.	free flowing back and forth between the folks that
25	I know at one point in time they had	represented those other groups and Westinghouse and
	178	180
1		
1 2	signed contracts in India to deliver a number of	1 Fluor, and I thought that in particular
2	signed contracts in India to deliver a number of units. They had contracts in the UK to deliver	Fluor, and I thought that in particular Westinghouse was pretty frank about that.
2 3	signed contracts in India to deliver a number of units. They had contracts in the UK to deliver some units, and in addition to the units they were	Fluor, and I thought that in particular Westinghouse was pretty frank about that. And I think that the groups that were
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that is, these topics listed on the second page of Exhibit 31 -- addressed in the August 5th, 2016 meeting?

A. Certainly some of them are. I don't think that everything was asked by the intervening groups, but certainly much of it was.

This email from me to Mr. Flowers and Mr. Benjamin really was twofold. 1, I wanted the meeting to be productive. So I wanted them to be prepared for typical questions, and some of these are really difficult questions.

And secondly, I wanted them to know who they were going to be with. For example, they might say: Why am I meeting with the electric cooperatives? And I just wanted to make sure they understood who the electric co-ops were.

Q. So on the second page of Exhibit 31 you say: The Office of Regulatory Staff and three other intervenors, South Carolina Energy Users Committee, Central Electric Co-op and the electric cooperatives of South Carolina would appreciate the opportunity to sit down face-to-face with Westinghouse and Fluor.

Did you have an understanding of why ORS and the intervenors wanted to meet directly

was the origin of that issue?

A. Well, I think I explained up in the opening paragraph where the topics came from, and their topics of ORS, SCE&G, in discovery, informal meetings, letters from ORS to the governor are listed below. So these were really questions that I thought that the ORS and perhaps those other groups would want to know. So this more than likely came from something that ORS asked somebody at the company. Whether it was formally or informally, I do not know.

Q. If we go back to your notes which we marked as Exhibit 30 that you took at the August 5th, 2016 meeting -- I guess let me ask you that. Did you take the notes reflected on Exhibit 30 at the August 5, 2016 meeting?

A. I did.

Q. On the second page of your notes there is a notation that JB --

A. Jeff Benjamin.

Q. -- Jeff Benjamin of Westinghouse said: No interest and that must succeed here to sell in other places. Do you see that?

A. I do.

Q. What do you understand that statement

with Westinghouse and Fluor to talk about the project?

A. ORS already had access to Westinghouse and Fluor. So I don't know that I could necessarily answer for them.

The other groups did not have access to Westinghouse and Fluor and would have to interface through other groups. For example, if the co-ops or Central wanted information, really they would be going through Santee Cooper, and this was an opportunity for them to get their questions before these groups. And these are groups that were looking at the possibility of signing on to a settlement agreement, and I think they wanted the opportunity to be able to ask their questions face-to-face without going through Santee Cooper, without going through SCE&G -- in some other case without going through ORS -- and see what the contractor, Fluor and Westinghouse, would have to say.

Q. The next to the last bullet point on the second page of Exhibit 31 says: Ramification to Westinghouse for abandoning the project. Has Westinghouse ever abandoned a project? What did you take that to mean? What 1 to mean?

A. I think that he was -- he was referring to what I was talking about earlier inasmuch as Westinghouse was -- had some contracts to build plants in some places and was actively participating in RFPs or solicitation to build in other countries, and if they didn't succeed at V.C. Summer that means they may not succeed in other places.

So he was responding to a question, but the premise of his response was: We've got to be able to succeed at V.C. Summer; otherwise, it will ruin our opportunity to sell AP1000s elsewhere in the world.

Q. Did the Public Service Commission ultimately approve the election of the fixed price option?

A. They did.

Q. All in all how would you describe the prospects for the project in 2016?

A. Well, actually I thought the prospects in 2016 were probably a lot better than they had been in quite a long time. The owners had been able to amend the EPC contract and put in some provisions that they thought were going to be

beneficial. Westinghouse had reconstituted the Consortium agreement. They were now in so control with Fluor as their construction contractor. They had in my mind every incentive that they could possibly have to finish these plants and finish them on time.

1.5

Fluor was very viewed as very positive, not just by SCE&G, but by Santee Cooper and some of these intervenor groups. I know that I've heard Mike Kallick from Central talk about his favorability for Fluor. So I think Fluor was viewed as very positive, not just by us but by others.

The progress was actually starting to pick up. Hiring was picking up. And I think at the beginning of 2016 Fluor got off to a bit of a rocky start with hiring, but then were hiring between 150 to 200 people a month, and I think they probably doubled the craft work force over a one-year net. So that's making up for normal attrition as well.

The Commission approved simulator, which was an issue that not -- you know, the contractor didn't necessarily have to work on, but SCE&G was responsible for getting the simulator

approved. That was a licensing issue with the NRC. There was an issue there, and that looked like it was on the path towards resolution. A majority of the major equipment was on site, and in fact a majority of all of the equipment necessary to construct the plants was there at the site. I say "major." I mean a vast majority.

So the procurement issues looked like they were getting behind us. The diversification of the modules from Lake Charles to other places looked like it was being -- and those modules were coming in. The shield building modules, the mitigation at the NI facility in Newport News -- their schedule was now looking like it supported the construction meet dates, which was not always the case.

So — and if you look at some of the big picture milestones that were hit, things like setting the reactor vessel for the first time in the country in 30 years and a lot of the big pours and module sets that the contractor was hitting were starting to increase. And the construction manager for Westinghouse, Carl Churchman, had been on the site for a year or so — probably 18 months towards the end of 2016 — and was feeling a lot

more comfortable about completion.

So, you know, when I look at -- in 2016 after the fixed price amendment was authorized, I felt pretty good about the project.

- Q. When did you first learn that Westinghouse was likely going to declare bankruptcy?
- A. I did not learn about that until March of 2017 just before they actually declared a bankruptcy.
- Q. What did SCE&G do upon learning of the bankruptcy?
- A. When SCE&G learned that the bankruptcy was likely, they had already retained bankruptcy counsel. So between the SCANA general counsel and the Santee Cooper general counsel they had agreed on bankruptcy counsel and had retained those; had started some discussions these are legal teams starting discussions on an Interim Assessment Agreement which would allow for Westinghouse to continue to work in bankruptcy while the project did an evaluation as to whether or not to continue with both plants, continue with one plant; their own general contractor, look for another EPC contractor. Those kind of things. So they signed

an Interim Assessment Agreement.
(DFT. EXH. 32, Interim Assessment
Agreement, marked for identification.)
BY MR. BALSER:

- Q. And is Exhibit 32 the Interim Assessment Agreement that you were just referring to?
 - A. It seems to be, yes.
- Q. So what evaluation did the company undertake in this period in which -- right after Westinghouse had failed bankruptcy?
- A. The owners put together an EPC evaluation team. That EPC evaluation team was headed by Kyle Young, and Mr. Young and his team took the information that was learned from the bankruptcy process, included bringing in some outside experts and went through a full evaluation of the schedule and costs in the interim assessment period.
- Q. What did the evaluation show?
- A. The evaluation showed that it was going to take much longer than anticipated and that the cost was going to be much higher than anticipated, continuing without the benefits of the fixed price -- protections of that fixed price contract. So

Westinghouse let us know that they were going to reject that fixed price contract through the bankruptcy process.

1.5

There was an estimate from Westinghouse that was given to our chief financial officer for the rough magnitude of the portion of the impairment that Toshiba claimed on the U.S. projects that was due to the V.C. Summer project, and that was about \$1.5 billion. The parental guarantee from Toshiba, which they had committed to pay and they did pay, was a little -- in excess of the \$1.5 billion.

So the evaluation was intending to see — if the Westinghouse numbers were accurate, if it was going to cost an additional 1.5 billion and the potential guarantee was going to cover that, then the plan could go forward on the same cost basis as it had before. Unfortunately that's not what it showed.

Q. How was it that the first time that SCE&G was able to come to the conclusion that the costs and schedules were understated was in March of 2017?

MR. COX: Object to the form.

A. The interim assessment period allowed,

units, continuing both units, Unit 2 and Unit 3, the first two nuclear units was done, and it was determined that that cost was very high. And then the focus shifted to complete the first unit and either mothball or cancel the second.

At some point before that evaluation I think was complete Santee Cooper let SCE&G know that they were likely not going to be able to move forward, and that was the premise for SCE&G to try an evaluation to see if they could go it alone, and from a cost perspective that dispute was prohibitive.

SCE&G then attempted to get some federal support and support from other utilities. So come in and replace Santee as a partner. Both of those efforts were also unsuccessful. So with no support forthcoming, the loss of the fixed price contract, the costs and schedule that was being faced and loss of partner, SCE&G made the decision to cancel.

- Q. In your view what was the driving factor of the need to abandon?
- A. Well, I will tell you that from my perspective had Westinghouse not gone into bankruptcy and pulled a fixed price contract or --

again, for work to continue while the evaluation team did its work. The evaluation team was augmented with experts from outside, and there was information made available during the bankruptcy process that SCE&G previously didn't have available

SCE&G also now had unfettered access to Fluor, whereas previously since Fluor worked for Westinghouse the only access to Fluor was through Westinghouse. And Westinghouse always wanted to be involved in those meetings or didn't necessarily want you meeting with Fluor. After the bankruptcy had unfettered access to Fluor.

So it was a degree of information that the NND team said that they didn't have available to them previously that they now said they had available to them to allow them to do the evaluation and supplementing the team with some outside experts and access to Fluor.

- Q. What conclusion did SCE&G make at the end of this interim period?
- A. Well, the interim assessment that was going on during this agreement -- and the interim assessment period was extended twice. And so during this evaluation a cost and schedule for two

yeah; a fixed price contract that the two utilities would still be doing those projects today.

MR. BALSER: That's all I have. Thank you, Mr. Byrne.

EXAMINATION

BY MR. COX:

Q. Mr. Byrne, do you need a break or are you okay to go?

A. I'm good.

Q. All right. We met just before your deposition began. Again, my name is Jim Cox. I'm an attorney representing the South Carolina Office of Regulatory Staff in both the PSC proceedings and as an intervenor in the state court actions in which your deposition is being taken.

Before we get into the substance of my questions to you I would like to just go over a few of the same admonitions that Mr. Balser discussed with you.

If at any point you need a break, that's fine. We can take a break as long as you answer the question that is pending. However, I won't know that you need a break unless you let me know. So would you let me know if you need a break?

193 195 1 When was the last time you spoke with Α. Certainly. 1 2 If I ask questions of you that are 2 Kevin Marsh? 3 3 confusing and that you don't understand, I would be A. I think it was probably December of 4 happy to try to improve the question, but I need 4 last year. 5 for you to let me know that you don't understand 5 And when is the last time you spoke Q. 6 the question for me to do that. 6 with --7 Will you let me know if you don't 7 I'm sorry. I saw Mr. Marsh one time in 8 8 understand a question? the SCANA headquarters building when he was 9 9 Α. I will. answering some questions of attorneys and I was 10 You took an oath at the beginning of 10 waiting outside. I saw him just to say hello. O. 11 the day today at the beginning of your deposition, 11 About what month was that? Q. 12 12 and it's the same oath that you would take if we I would be guessing, but I would say 13 were in a courtroom and it carries the same 13 probably in the April, May time frame. penalties of perjury. Do you understand that? When was the last time you spoke with 14 14 15 15 Jim Addison? Α. I do. 16 16 I know you had your deposition taken in The it would have been while I was August 14th of this year in these same proceedings, 17 17 still working with the company. So December of 18 and my question for you is: Have you ever had your 18 last year. 19 19 deposition taken before today on any other occasion When was the last time you spoke to Ron Q. 20 except for that date in August? 20 Jones? 21 2.1 A. No. When I was still working for the Α. 22 Q. Other than speaking with your attorneys 22 company. So probably December of last year. 23 and the attorneys for SCE&G in preparation for your 23 When was the last time you spoke to Q. 24 deposition what else did you do to prepare for your 24 Jeff Archie? 25 25 deposition? When I still worked for the company. Α. 194 196 1 A. Outside of the prep sessions I would 1 Probably December of last year. 2 2 have had with my attorneys, reviewed some notes When was the last time you spoke to 3 3 outside of those sessions. That's about it. Kyle Young? 4 And can you describe what those notes 4 The same answer. December of last year 5 5 when I still worked for the company. were about. 6 6 Q. How about Kevin Kochems; have you Α. Those would have been notes that would 7 spoken with him? 7 have been given to me by my attorneys during the 8 8 sessions, and they would have been similar to the I have not spoken with him. A. 9 9 notes that were presented to me here today. Are you currently employed? O. 10 10 Did you review any documents in Α. I am not currently. What was your last job? 11 preparation for your deposition that you haven't 11 Q. My last job was the job that I left, 12 reviewed as an exhibit to your deposition today? 12 A. 13 13 SCANA. Between today and the previous 14 deposition you're talking about? 14 What was that job? O. 1.5 15 Fair enough. Correct. It was the President of Generation and Α. 16 Possibly. I can't think off the top of 16 Transmission. 17 17 my head what they might be, but it's possible that Q. And were you also the Chief Operating 18 that's the case. 18 Officer of SCANA? 19 19 Did you review your PSC prefile The Chief Operating Officer of SCE&G. 20 And in that position you were really 20 testimony in preparation for your deposition today? 21 the second in charge of SCANA; is that correct? 21 A. Did you speak to anyone about your 22 I'm not sure I could phrase it that 22 23 deposition other than your attorneys and SCE&G's 23 way. There were a number of people that were 24 24 attorneys? direct reports to the CEO that may also think that 25 25 they were second in charge. So it was one of the Α. No.

			50 (Pages 197 to 200)
	197		199
1	people that would have been considered second in	1	head. It's I don't recall.
2	charge.	2	Q. Is it paid to you monthly?
3	Q. You reported directly to the CEO,	3	A. I think it is paid to me monthly. So
4	didn't you?	4	when you say retirement annuity, the retirement
5	A. That's correct.	5	plan that I have is a cash balance plan. So that
6	Q. Why did you leave that job?	6	accounts cash balance plan I haven't touched. So
7	A. The Board of Directors approached	7	it still exists. There was a one of the
8	myself and Mr. Marsh probably in the October -	8	executive retention program payouts that you have
9	November time frame of 2017 and said that they were	9	the option to take in a lump sum or in an annuity,
10	trying to strike some kind of a deal with the	10	so for I did choose an annuity. I just don't
11	legislature and said that that was not going to be	11	remember I just don't remember what the figure
12	possible in their minds unless somebody left the	12	is.
13	company, and they asked if Kevin and I would	13	Q. Is it more than \$10,000 a month?
14	consider retiring. So Kevin and I did consider	14	A. No.
15	retiring and both of us did retire.	15	Q. Is it more than \$5,000 a month?
16	Q. Who approached you with that	16	A. No.
17	information?	17	Q. Is it more than a thousand dollars a
18	A. That would have been the chairman of	18	month?
19	the Board of Directors at that time.	19	A. I don't believe so.
20	Q. And who was that?	20	Q. What is your balance in the cash
21	A. That was Maybank Hagood.	21	balance retirement plan of SCANA?
22	Q. Did he say anything about what the	22	A. The exact balance I don't know.
23	nature of the deal was with the General Assembly?	23	Q. Is it more than a million dollars?
24	A. It was a deal to allow for some form of	24	A. No, I don't believe so. No, it's not.
25	cost recovery for the abandoned units. So that	25	Q. Is it more than \$500,000?
25	cost recovery for the abandoned units. So that	25	Q. Is it more than \$500,000:
	198		200
1	was, I think, pretty well known that SCANA was	1	A. It's right around there.
2	seeking to recover some costs. Certainly not all	2	Q. Do you currently own any SCANA stock?
3	of the costs. But that was the gist of it.	3	A. I do.
4	Q. Did he say your employment would be	4	Q. How much stock do you own?
5	terminated if you did not voluntarily resign?	5	A. I own I think it's 2,300 shares
6	A. He did not.	6	outright and maybe 25,000 shares through the 401(k)
7	Q. Did you get that impression?	7	program.
8	A. I did not.	8	Q. When you left SCANA did you sign any
9	Q. Were you given any compensation in	9	nondisclosure agreements?
10	exchange for resigning?	10	A. I did not.
11	A. I was not.	11	Q. Have you read any of the deposition
12	Q. Do you currently have any contractual	12	transcripts of witnesses who have had their
13	relationship	13	depositions taken in this case?
14	A. Retiring, not resigning.	14	A. I have not.
15	Q. I'm sorry. Retiring.	15	Q. You received over \$2 million in
16	A. Right.	16	compensation in 2014, didn't you?
17	Q. Do you currently have any contractual	17	A. I think the total compensation number
18	relationship with SCANA or SCE&G?	18	is right around that number. Yes.
19	A. I don't have any contractual	19	Q. You received over \$2 million in
20	relationship with SCANA or SCE&G.	20	compensation in 2015, didn't you?
21	Q. Are you currently receiving a	21	A. I think so.
22	retirement annuity from SCANA or SCE&G?	22	Q. You received over \$2 million in
23	A. Yes.	23	compensation in 2016, didn't you?
24	Q. And how much is that?	24	A. I believe so.
25	A. I don't remember off the top of my	25	Q. During the time of construction on the

203 201 1 project you received bonus payments due to progress 1 was not successful in constructing and operating 2 on the construction of the project; correct? 2 those two AP1000 reactors; correct? 3 3 There was some portion of the bonus I don't know that I would agree with 4 that was paid out based on achieving milestones, 4 that premise. I will say that the construction was 5 5 stopped based on a bankruptcy at Westinghouse. So yes. 6 6 Q. You had never had oversight over the company, the owners, did have to go through an 7 7 construction of the new nuclear development before evaluation to determine whether continuing with this project; correct? 8 8 construction was the right thing to do. 9 9 Α. That's correct. SCE&G's goal in submitting this 10 10 Q. Part of your compensation during application to the PSC was to build two AP1000 11 construction on the project was allocated to the 11 units and operate them; correct? 12 12 capital cost of the project, wasn't it? Certainly the goal was to build two 13 I don't recall a bonus incentive goal 13 AP1000 units and operate them. 14 that was relative to capital cost of the project, 14 Q. And that goal was not achieved, was it? 15 15 That goal was not achieved. A. 16 Unit 1 at V.C. Summer is not an AP1000 16 There were -- in each year I would have O. 17 four or five goals. Since I had responsibility for 17 reactor; is that correct? 18 areas outside of nuclear, some of those goals would 18 Unit 1 is a Westinghouse reactor but 19 19 be relative to fossil hydro or transmission not an AP1000. That's correct. 20 generation planning. So other groups that reported 20 And no AP1000 reactors had ever been 21 to me. So I did have a couple of goals that would 21 constructed at the time that SCE&G submitted this 22 22 be specific to new nuclear. I don't remember one Exhibit 9 to the PSC; correct? 23 23 None had completed construction. There based on capital cost. And there were a couple of 24 times when I missed the full bonus opportunity 24 were some under construction. 25 25 based on not hitting the new nuclear development How long had those units been under 202 204 1 goal. 1 construction at the time this application was 2 2 submitted? And I think I might have asked a 3 3 confusing question there. My question is: We've I think that they had been under 4 had witnesses testify that they noted how much time 4 construction for something like two years. Maybe 5 5 they spent working on the project versus working on three years. 6 other company missions and goals and that the 6 O. And SCE&G in this application 7 7 percentage of time that they spent working on the acknowledged that there were first-of-a-kind risks 8 project, a certain percentage of their income would 8 in constructing the AP1000; correct? 9 be allocated to the cost of the project. 9 Correct. A. That is accurate. So a portion of my 10 10 In submitting this application SCE&G 11 salary would be allocated to the project based on was requesting that the Commission approve SCE&G's 11 12 how much time I spent on the project. Yes. That's 12 request to build an AP1000 reactor; correct? 13 correct. 13 That's right. Two AP1000 reactors. 14 Q. And do you recall roughly what that 14 And it's correct that SCE&G did not 15 percentage was during the life of the project? 15 give the PSC the option of approving construction 16 I don't. I would probably say it was 16 of a GE reactor; correct? 17 over 50%, but I don't know the exact number. I 17 What SCE&G presented to the Public 18 would have to review time sheets to know what that 18 Service Commission was the results of the 19 was. 19 revaluation that SCE&G did that compared the 20 Mr. Byrne, Exhibit 9 in front of you, 20 different forms of nuclear generation that were 21 this was an application by SCE&G for permission to 21 available to it at that point in time. 22 construct and operate a nuclear facility consisting 22 And SCE&G said we think the best option 23 of two AP1000 reactors; correct? 23 is to build an AP1000 reactor; correct? 24 A. Yes. 24 Presented the results of the evaluation 25 Q. And you would agree with me that SCE&G 25 that led to the selection of the AP1000.

207 205 1 And the results of the analysis were 1 the project; is that correct? 2 2 That's correct. that SCE&G believed that the best option was to A. 3 3 build an AP1000 reactor; correct? You mentioned earlier that one drawback 4 4 A. That's correct. that you saw in having an outside owner's engineer 5 5 is that it would strain the relationship with the O. Mr. Byrne, it's correct that the EPC 6 6 agreement between SCE&G and the Consortium Consortium; is that correct? 7 7 permitted SCE&G to use an owner's engineer on the Not just -- I don't think you heard me 8 project; correct? 8 correctly there. Not just an outside person acting 9 9 as owner's engineer, but somebody who will be There was a contract definition for 10 owner's engineer, and if the company had elected to 10 viewed as a competitor. 11 So Westinghouse and CB&I viewed Bechtel 11 go that route it would have required approval by 12 12 the contractor. as a competitor. So somebody that would not be 13 13 Can you turn to Page 74 of Exhibit 10. viewed as a competitor, I don't think that would If you could look at -- I'm sorry. Exhibit 10 is 14 14 have been as big an issue with the contractors. 15 the mammoth exhibit in front of you, the EPC 15 So there is some -- you would agree 16 that there is some third-party options that the 16 agreement. 17 Okay. What page? 17 Consortium would not view as competitors like A. 74. Subparagraph 4 -- this is the 18 18 O. Bechtel? paragraph that permits SCE&G to designate an 19 19 I think there were some third-party owner's engineer subject to Consortium approval; is 20 20 options that the Consortium would have viewed and 21 that correct? 21 Westinghouse would have viewed far more favorably 22 22 A. Right. than they would have viewed Bechtel, ves. 23 23 You mentioned that SCE&G held Fluor in Q. And the contract provides that the 24 Consortium could not unreasonably withhold approval 24 great respect, but SCE&G never considered Fluor to 25 25 of such a designation; correct? be an owner's engineer on the project, did it? 206 208 1 That's correct. 1 A. No. We did not consider Fluor to be an 2 2 And it's correct that SCE&G at no point owner's engineer before it was constructed. 3 3 I'm talking about 2008. At that time in time during the life of the project exercised 4 its prerogative to designate an owner's engineer? 4 Fluor had no role in the project; correct? 5 5 I think as I explained earlier SCE&G A. Fluor did not have a role in the 6 6 opted to hire in its own owner's engineers. So project in 2008. And once again, if you have no SCE&G from the start hired in expertise that would 7 7 background in what it is that you're doing an 8 be consistent with and in greater number than an 8 owner's engineer might be useful, but SCE&G opted 9 9 owner's engineer would be. So at the time of to hire in the expertise that it needed. So SCE&G 10 10 cancellation I think SCE&G probably had about 200 did have the experience that it needed to fulfill 11 people that were dedicated to oversight on the 11 that role as owner's engineer. 12 project. So that was de facto on the owner's 12 And it's correct to say that SCE&G did 13 engineer, not what is contemplated here. not consider the option of hiring Fluor to be an 13 But again, if you don't have the 14 owner's engineer in 2008? 14 15 expertise certainly an owner's engineer is a 15 That's correct. A. 16 standard part of one of these contracts, but SCE&G 16 You made a point, I thought, that an 17 opted to hire in its own expertise. 17 owner's engineer might be redundant under the EPC, 18 Q. And who led this group of experts? 18 and I wasn't sure I understood that. I wonder if 19 19 It was different at different times. you could expound on that. 20 20 I'm not sure what -- you would have to At the start it was a gentleman named Ron Clary. A. 21 That transitioned to a gentleman named Ron Jones, 21 refresh what I said. 22 and over the construction piece was a gentleman 22 You had mentioned some concerns about 23 named Alan Torres for the whole time. 23 an owner's engineer, and I thought you had 24 And it's your view that those 24 mentioned that an owner's engineer would be 25 individuals filled the role of owner's engineer on 25 redundant. I didn't know if that refreshed your

53 (Pages 209 to 212) 209 211 1 recollection of that concern. 1 dealing with the Consortium on construction 2 2 It doesn't. problems? A. 3 3 O. You testified that SCE&G knew the A. I don't remember. 4 4 difficulties that existed on the project; is that Q. Let me get an idea of the kind of chain 5 5 of command here. You reported to the CEO; correct? correct? 6 6 A. I did. A. That's right. 7 7 Is it fair to say that SCE&G, while it Who were the direct reports to you? O. Q. 8 8 I had -- Jeff Archie was the chief may have known about the difficulties, had a A. 9 9 difficult time getting these difficulties fixed? nuclear officer. So Jeff Archie had responsibility 10 Yeah. I would say that the owners had 10 for the operating nuclear plant and the new nuclear 11 a very difficult time in convincing or pushing the 11 construction plant. 12 12 Consortium counter-parties to correct the issues. Mr. Archie had as a direct report to 13 And so it isn't that SCE&G was not aware of or the 13 him the vice-president for our operating unit, Unit 14 owner is not aware of the issues. 14 1. He had the vice-president for construction and 15 15 had the training director, who was responsible for Lake Charles, for example. From the 16 16 very first time that SCE&G visited Lake Charles training both for the operating plant and for the 17 along with Southern Company, both of them voiced 17 development of the training programs for the new 18 concerns over the Lake Charles facility. So it 18 nuclear plant. 19 19 isn't that the companies didn't try to impact I had additional direct reports to me. 20 20 change; it's just that under the EPC contract there Fossil hydro vice-president, for example. VP for 21 21 are some limitations that you can do with a transmission, for example. And then at times I had 22 22 contractor who has chosen their own means and different direct reports for field procurement. In 23 23 methods. the last couple of years, as an example, I had the 24 24 Did you ever feel that Ron Jones was land-site management at one point in time. So some 25 25 too nice and wasn't strict enough in dealing with of the other things would kind of come and go. 210 212 1 the Consortium on these issues? 1 Were you or Mr. Archie more involved in 2 2 dealing with the construction issues on the I don't think I would ever say that 3 3 Mr. Jones was too nice. I think that Mr. Jones did project? 4 have a favorable disposition, but I don't think 4 The short answer is it depends. If it 5 5 that compromised his ability to deal with the was a day-to-day construction type activity on the 6 6 contractor on these issues. And SCE&G would deal project itself, I would say Mr. Archie was a lot 7 7 with them as a team. And so there certainly were closer to those activities than was I. If it was 8 8 members of the team that would hold the an issue that was being dealt with at a higher 9 9 contractor's feet to the fire. Alan Torres, Carl level with executives of the companies -- for 10 10 Young, for example, and a number of other folks in example, Mr. Benjamin from Westinghouse, 11 the construction arena, the business and financial 11 Mr. Flowers from Fluor -- that were referenced in 12 12 an earlier email, I would probably deal with them arena. Skip Smith, who I think you've seen on a number of these letters that go back to the 13 more than Mr. Archie. 13 Consortium, project letters, would certainly hold 14 14 Did Mr. Archie have any nuclear 15 15 the contractor's feet in the fire. construction experience? 16 16 The negotiations even at the executive Mr. Archie was at V.C. Summer Unit No. 17 17 levels, including CEOs of the companies, all the 1 during construction. 18 18 companies involved, not just Santee Cooper and Anything else? Q. 19 19 SCE&G, but Westinghouse, Shaw, CB&I, Fluor. So I A. Responsible for steam generator 20 think the negotiations happened at every level, and 20 replacements. Worked with Bechtel on steam 21 I think it's safe to assume that the owners let the 21 generator replacements. And steam generators are a 22 22 contractors know of their dissatisfaction at every very large, very difficult component, so the outage 23 23 to replace those would be a hundred plus days 24 Did you ever counsel any of your 24 long. Very detailed or involved. So he had some

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specific nuclear construction background.

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employees that they needed to be stricter in

213 215 1 1 SCE&G did not submit any other alternative Mr. Archie was also at one point in 2 time the outage manager, so would run schedules 2 construction contracts in 2008 aside from the EPC? 3 3 when the plant shut down fixing things you couldn't SCE&G didn't have any alternative 4 work on when the plant was online. So had that 4 construction contracts in 2008. 5 kind of experience. 5 You discussed the Lake Charles issues 6 6 What was Mr. Archie's job during the and I think that you mentioned that the owners 7 7 construction of Unit 1? asked for a recovery plan from the Consortium. 8 8 Did the owners ever receive a recovery I don't remember. It was a long, long 9 9 time ago and long before my involvement with SCE&G. plan? 10 So you don't know if he was responsible 10 There was a recovery plan generated by 11 for oversight on the construction of Unit 1? 11 -- and I believe it was Shaw Group at the time, 12 12 No. I don't believe he was responsible which was the then owner of that facility. I don't 13 for oversight. It would have been too early in his 13 know that it satisfied the owner's needs and 14 career to be responsible for that. 14 desires for that facility. So one of the things 15 15 Q. Mr. Byrne, it's correct that SCE&G that the owners were looking for was how parts 16 16 recommended that the PSC approve the EPC contract? could be built elsewhere. That was not provided in 17 that 2000 -- I guess it would be '10-'11 time 17 A. Certainly the EPC contract was a part 18 of the package that was taken to Public Service. 18 frame. It's where we ended up, but it's not what 19 they provided to us in that time frame. 19 You know, it may be playing semantics. 20 20 Q. When did SCE&G place in-house observers I don't know if we recommended its approval or not. 21 21 I just don't recall that. It certainly was part of at Lake Charles? 22 The exact date I don't recall, but it 22 the package. 23 was fairly early on. I would say it was probably 23 Is it fair to say that SCE&G requested 24 in the 2011 time frame. approval of that contract? 24 25 So it's your recollection that SCE&G 25 A. Yeah. Again, it may be semantics. I'm 214 216 1 not sure what the terminology is, but we certainly 1 placed an SCE&G employee at Lake Charles in 2011? 2 2 presented as a part of the whole package for the A. I said we placed an inspector there. I 3 3 approval of building the plant on the BLRA lead didn't say necessarily it was an SCE&G employee. 4 times. 4 So SCE&G would have retained a quality consultant 5 5 Did SCE&G desire to have the EPC from an outside firm that was done by Mr. Torres. 6 6 contract approved by the PSC? So the details on that you would have to get from 7 7 Certainly, yes. him, but did place a resident inspector in the 8 Did SCE&G propose or submit to the PSC 8 facility. Again, I think it was 2011. Maybe it 9 any other contracts other than the PSC in -- strike 9 was 2012. I don't know. 10 10 How many times did you visit Lake 11 Isn't it true that SCE&G did not submit 11 Charles? 12 any other contracts for approval to the PSC in 2008 12 I visited Lake Charles three or four Α. 13 other than the EPC? 13 times. 14 I believe that SCE&G submitted the Α. 14 When was your first visit? O. 15 contract for construction and transmission to the 15 I believe my first visit to Lake 16 Public Service Commission: and I don't know if the 16 Charles was in 2010. 17 contract was a part of the submission, but 17 Who did you travel with? 18 certainly it was a siting hearing for transmission 18 I don't remember. I know that there 19 that was separately -- transmission associated with 19 was a group that went down. I just don't remember 20 the new unit. That was separately than this, than 20 who else was with me on the trip. 21 the Certificate of Convenience and Necessity for 21 I believe that Santee Cooper 22 the plants themselves. That was a separate 22 accompanied me, and I believe that was Bill McCall. 23 contract that may have been presented to the Public 23 At least that's at that time. He was the chief 24 **Service Commission.** 24 operating officer at Santee Cooper at that time. 25 Is it correct, though, Mr. Byrne that 25 There were other SCE&G employees that went. I just

1 don't recall who they were. 2 Q. Did you ever visit The Woodlands facility in Texas? 4 A I never visited The Woodlands, no. 5 Q. Did you ever visit the Newport News facility in Virginia; 7 A I did. 6 Q. How many times did you visit there? A Once. 9 A Once. 10 Q. What year? 10 Or '16. I can't remember. 10 Q. What year? 11 A I think it was 20 - it was either '15 12 Or '16. I can't remember. 12 Or '16. I can't remember. 13 Or '16. I can't remember. 14 A I wanted to see what the facility was offering. I wanted to get a gauge as to whether or not, you know, we thought that they were going to be modules to the project site on time. I wanted to a proposal to expand hulling panels? 14 A I wanted to get a gauge as to whether or not, you know, we thought that there were going to be proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would be to meet the repairments of delivering the leadership certainly convinced me that that would be a good thing. I thought the leadership was a lot more attune to oncesspal. So people looking over their shoulder, that didn't seem to bother the sort things. 218 220 220 220 220 221 221 222 223 223 224 224 225				55 (Pages 217 to 220)
don't recall who they were. Q. Did you ever visit The Woodlands, no. Q. Did you ever visit the Woodlands, no. Q. Did you ever visit the Newport News facility in Vignia? A. I tidd. Q. How many times did you visit there? A. Once. Q. What year? A. I think it was 20 – it was either '15 Q. Why did you visit there? A. I hank it was 20 – it was either '15 Q. Why did you visit there? A. I hank it was 20 – it was either '15 Q. Why did you visit there? A. I hank it was 20 – it was either '15 Did you review this letter before it was sent to the Consortium? A. I hank it was 20 – it was either '15 Q. Was that in conjunction with their mon't be able to meet the requirements of delivering the modules to the project sit end time. I wanted to pass a proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would 10 be a good thing. I thought the leadership was a lot more attune to oncispt. So pool booking over their shoulder, that didn't seem to bother the roprofessional manner, that their card work force at I alex charles, that didn't seem to bother the Newport News folks, whereas the work force at I alex charles, that didn't seem to bother the Newport News folks, whereas the work force at I alex of things. So the visit to the Lake Charles—to their shoulder, that didn't seem to bother the visit along with a couple of other SCE AG guys. Q. Did it solve any problems with fabrication in that facility? A. Did my visit solve problems? Q. Did it solve any problems? Q. All though the eadership was a lot more drive to more drive to the problems? Q. Did it solve any problems? Q. All the follows the problems? Q. All the problems or not. My visit wasn't—the intent of my wist three wasn		217		219
2 Q. Did you ever visit The Woodlands, no. Q. If you could turn to Exhibit 11 in the stack in front of you. A. I never visited The Woodlands, no. Q. If you could turn to Exhibit 11 in the stack in front of you. A. Veah. 11. Q. This is the letter dated May 6, 2014 from Mr. Marsh and Mr. Carter to Mr. Asherman and Mr. Rodrick. 3 Q. How many times did you visit there? 4 A. I think it was 20 – it was either '15 3 Or '16. I can't remember. 4 A. I wanted to see what the facility was offering. I wanted to get a gauge as to whether or not, you know, we thought that they were going to be able to meet the requirements of delivering the modules to the project sit en time. I wanted to pay an opportunity to talk to their leadership. Q. Was that in conjunction with their fabrication of shield building panels? 2 A. It was, yeah. And there was also a proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would 2 be a good thing. I thought the leadership was a lof more attune to nuclear issues than other vendors that I had been to, specifically I sake Charles; that their shop operated in a much more professional anamer, that their craft work seemed more professional, and they also seemed to be much more attune to oversiths. So people looking over their shoulder, that didn't seem to bother the Newport News folks, whereas the work force at Lake Charles always seemed to have an issue with those sort of things. 3 O. Did it solve may problems? 4 Did was a gauge as to whether or the Newport News folks, whereas the work force at Lake Charles always seemed to have an issue with those sort of things. 5 Or they did you visit the very did not microblem? 5 Decay and that facility? 5 Decay and the facility was a large of the seemed more professional anamer, that their craft work se				
4 A. I never visited The Woodlands, no. 5 Q. Did you ever visit the Newport News 6 facility in Virginia? 7 A. I did. 8 Q. How many times did you visit there? 9 A. Once. 10 Q. What year? 11 A. I think it was 20 it was either '15 12 or '16. I can't remember. 12 Q. Why did you visit there? 13 Q. Why did you visit there? 14 A. I wanted to see what the facility was offering. I wanted to get a gauge as to whether or not, you know, we thought that they were going to be able to meet the requirements of delivering the modules to the project site on time. I wanted to have an opportunity to talk to their leadership. 15 Q. Was that in conjunction with their fabrication of shield building panels? 16 Lank was necessary or not. Their leadership was a lot off under the was also a proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would 17 Each of the constraint of the mode in or eattune to vorsight. So people looking over their shoulder, that tidn't seem to bother the more professional, and they also secrend to be much more attune to vorsight. So people looking over their shoulder, that tidn't seem to bother the sort forings. 18 A. Did what solve problems? 19 Q. Did it solve any problems with fabrication in that facility? 20 A. Did it solve any problems? 21 Q. Right. 22 A. Did what solve problems? 23 A. Did what solve problems? 24 A. Did what solve problems? 25 A. Did what solve problems? 26 A. Did what solve problems? 27 A. Did what solve problems? 28 A. Did what solve problems? 29 A. Did it solve any problems with fabrication in that facility? 30 A. Did what solve problems? 31 A. Did what solve problems? 32 A. Did what solve problems? 33 A. Did what solve problems? 34 A. Did what solve problems? 35 A. Did what solve problems? 36 A. Did what solve problems? 37 A. Did what solve problems? 38 A. Did what solve problems? 39 A. Did what solve problems? 40 A. Did what solve problems? 41 A. Did what solve problems? 42 A. Did what solve pr				
A. Inever visited The Woodlands, no. O. Did you ever visit the Newport News facility in Virginia? A. I did. O. How many times did you visit there? A. Once. O. What year? I A. I think it was 20 — it was either '15 or '16. I can't remember. O. Why did you visit there? A. I wanted to see what the facility was offering. I wanted to get a gauge as to whether or not, you know, we thought that they were going to be able to meet the requirements of delivering the modules to the project site on time. I wanted to have an opportunity to talk to their leadership. O. Was that in conjunction with their failed building panels? A. I twanted to get a gauge as to whether or not, you know, we thought that they were going to have an opportunity to talk to their leadership. O. Was that in conjunction with their failed building panels? A. I wanted to failed building panels? A. I wanted to more aroung that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would be a good thing. I thought the leadership was a lot find out whether that was necessary or not. Their leadership certainly convinced me that that would 218 1 be a good thing. I thought the leadership was a lot find out whether that was necessary or not. Their leadership certainly convinced me that that would 228 1 be a good thing. I thought the leadership was a lot find out whether that was necessary or not. Their leadership certainly convinced me that that would 229 230 240 251 262 271 282 283 284 285 286 286 287 A. I would like to know if you believe this letter is accurate, as you do what you need to do, then, to confirm it. A. Okay. Okay. I've read it. So there are some of the things represented from NRC inspections that I don't have any professional and they also seemed to be much more attune to oversight. So people looking over their shoulder, that didn't seem to bother the soulder, that didn't seem to bother the soulder, that didn't seem to bother the soulder, that didn't seem t				
5 facility in Virginia? 7 A. I did. 8 Q. How many times did you visit there? 9 A. Once. 9 Q. What year? 1 A. I think it was 20 it was either '15 12 or '16. I can't remember. 13 Q. Why did you visit there? 14 A. I think it was 20 it was either '15 15 offering. I wanted to get a gauge as to whether or not, you know, we thought that they were going to be able to meet the requirements of delivering the modules to the project site on time. I wanted to have an opportunity to talk to their leadership. 20 Q. Was that in conjunction with their fabrication of shield building panels? 21 A. It was, yeal. And there was also a proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership certainly convinced me that that would 21 be a good thing. I thought the leadership was a lot find out whether that was necessary or not. Their leadership certainly convinced me that that would 22 A. It was, yeal. And there was also a proposal to expand that facility. So I wanted to find out whether that was necessary or not. Their leadership was a lot find out whether that was necessary or not. Their leadership was a lot find out whether that was necessary or not. Their leadership was a lot find out whether that was necessary or not. Their leadership was a lot find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of the find out whether that was necessary or not. Their leadership was a lot of the find out whether that their card work seemed more professional, and they also seemed to be much more professional, and th				
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	2.5	of my visit there was to gain an understanding of	25	that promise?

56 (Pages 221 to 224) 223 221 1 1 A. It was -- it was a complaint by SCE&G. A. I believe that is right. 2 2 And is it correct that CB&I also This letter -- again, I think I explained this 3 3 once, but it was really -- the real intent of this provided that the CA-20 unhook date would be 4 October 31st, 2013 and as of the date of this 4 letter was Toshiba Corporation. 5 5 letter on May 6, 2014 had still not reached that Toshiba is the company that had said 6 6 milestone? that they had significant amounts of experience. 7 7 Toshiba officials had actually come to Columbia in A. Say that again. 8 Sure. Isn't it true that CB&I stated 8 years earlier and talked about their level of 9 9 that it would have a CA-20 unhook date of October experience in Asia, how they got these construction 10 31st, 2013 and that as of the date of this letter, 10 means and methods and techniques down and that they 11 11 May 6, 2014, the CA-20 was still not unhooked? would be passing those along to Westinghouse. And 12 12 That's correct. honestly, the owners hadn't seen much involvement And it's true that the Consortium was 13 13 or interaction with Toshiba. So this was an effort O. 14 14 also not on schedule as of the date of this letter to put Toshiba on notice that their daughter 15 15 to meet the revised CA-01 unhook date of September company, Westinghouse, wasn't doing what it had 16 promised it would do. And this letter was followed 16 4, 2014? 17 17 up by a visit from the CEOs to Tokyo to meet with A. I believe that's right. 18 18 Q. And under Subparagraph E on Page 7 it's Toshiba. 19 19 correct that the owners saw no improvement over the And the last page of this letter -- I'm 20 20 next several months? sorry. The next to the last page, Page 13, there 21 is a subparagraph No. 5 entitled "Our Frustration 21 No improvement with the module delivery 22 Continues to Mount." And the second sentence says 22 schedule, ves. 23 23 there, quote: You have made promise after promise, If you turn to Page 11 there is a 24 subparagraph A entitled "IFC Design Delays," and 24 but fulfilled few of them. 25 25 the third paragraph down on that page references a That was a true statement; right? 222 224 1 May 19, 2011 monthly project review minutes in 1 I think this was probably, if you will, 2 which Westinghouse estimated the design of the 2 a negotiating posture. So certainly the Consortium 3 project was 95% complete. Is that correct? 3 had made some promises around that module facility 4 Yeah. I'm not sure if they're talking 4 around the time that the modules were supposed to 5 5 about the issue for design or issue for be being delivered to that facility that they were 6 construction drawings at 95% complete. I think 6 not living up to. So this was the frustration. 7 7 that's what they're talking about. And again, I didn't write the paragraph 8 And is it correct that on March 31st, 8 or the title. So certainly there was some 9 2014 Westinghouse reported that the IFC documents 9 frustration on the part of the owners relative to 10 were only 88% complete? 10 modules not being produced in a timely fashion out 11 That's right. 11 of that Lake Charles facility. 12 So Westinghouse was reporting a lower 12 Isn't it true that SCE&G is complaining 13 percentage completion on IFC documents in 2014 than 13 that the Consortium has made promise after promise they had in 2011; correct? 14 14 but fulfilled few of them? 15 I think they had -- they were looking 15 Again, I think that's a negotiating 16 at the issue for construction drawings as a 16 tactic aimed at throwing things up at Toshiba to 17 percentage complete of all of the drawings. With 17 force them to get more involved in the project. 18 design changes that were being implemented on the 18 Was it a true statement? O. 19 project their scope had grown. So as the scope 19 A. I think that the frustration was 20 grows the denominator, if you will, is bigger, so 20 continuing to mount. They had made promises. I 21 that the overall percentage complete actually 21 don't know that I would have necessarily

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correct?

characterized it this way had I written the letter,

Mr. Marsh characterized it this way;

but this was not me writing the letter.

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dropped.

O.

But isn't it true that SCE&G is

this issue is heading in the wrong direction?

complaining that the percentage of completion on

225 227 1 I think it was a joint effort between 1 have reforecasted earlier or later, I don't think 2 Mr. Marsh and Mr. Carter. 2 that that makes any difference. 3 3 If you could turn to Exhibit 13, Q. Well, to be clear, you didn't reveal to 4 4 the PSC that the Consortium had notified SCE&G that Mr. Byrne. 5 5 it typically would not reforecast its PF until it A. Got it. 6 6 I think you testified earlier this is a had reached a higher level of completion that it 7 7 copy of the Consortium EAC cost estimate in August had reached; correct? 8 8 2014; correct? A. I think what various company witnesses 9 9 Yeah. And to be clear, this was a copy had testified before the PSC is the performance 10 that was sent ahead of time to -- from JoAnne Hyde 10 factor was not where it needed to be, though the with Westinghouse to Carlette Walker, who then 11 11 Consortium were the ones that were reforecasting 12 12 forwarded it. it. So I don't know whether -- why this would be 13 So I don't know if there may have been 13 germane. 14 any changes made to us between the day before when 14 And Mr. Byrne, I'm not worried about this was forwarded to Carlette and when 15 15 what the other witnesses testified to. I'm just Westinghouse actually presented it to us. 16 16 talking about your testimony here, and I just want 17 But this is a document that you 17 to know if your testimony which you reviewed in 18 received on August 29th; correct? 18 preparation for your deposition included this 19 19 statement that the Consortium was not at the level Α. 20 O. And you attended this briefing as well; 20 of completeness where it typically would reforecast 21 21 its PF. correct? 22 22 A. I did. A. My testimony would not include the --23 If you could turn to Page 28 again. 23 your statement. No. Q. 24 24 And the last statement on this page Okav. A. 25 The second bullet point is, quote: 25 that the Consortium was promising to reach a PF of Q. 226 228 1 Current PF equals 1.41. (U2 equals 2.15, U3 equals 1 1.15 in six months, that fact was not in your 2 1.74, SS equals 1.07), end quote. 2 testimony to the PSC in 2015, was it? This reflects that the PF on Unit 2 was 3 3 I don't remember. 4 worse than the PF on Unit 3; correct? 4 Q. Go ahead and review it. It's Exhibit 5 5 That's correct, which would be 15. Α. 6 6 expected. A. 15. Could you repeat your question? 7 7 Q. And below that it says, quote: Q. Sure. 8 Currently only 12.9% complete with direct 8 MR. COX: Could you repeat the 9 construction. Typically would not reforecast PF 9 question? until 20% complete with a particular scope, end 10 10 (The court reporter read the pending 11 auote. 11 question.) 12 This is the Consortium warning SCE&G 12 So on Page 21 of the testimony 13 13 that it would typically not reforecast its PF until beginning on Line 11 it reads: For various reasons it had reached a higher level of completion than it 14 14 today Westington/CB&I has not met the overall PF on had reached. Isn't that correct? 15 15 which its original cost estimates were based in 16 That's what it appears to be, yes. 16 preparing the revised fully integrated construction 17 17 You did not reveal that to the schedule. Westinghouse/CB&I forecasted an increase 18 Commission in your prefile testimony in 2015, did 18 in its PF across the board. The higher rate 19 you? 19 indicates more hours required for a task. SCE&G 20 I don't recall what I revealed to the 20 does not accept the responsibility to pay for this 21 Commission. I believe that we got to the 21 increased labor. Unfavorable productivity factors 22 Commission the fact that their PFs were not what 22 have been a matter of frank and direct discussion 23 they intended to be. I don't know that I would 23 between the parties, and Westinghouse and CB&I 24 have viewed this as germane to that discussion. If 24 senior leadership has recognized the need to 25 they were not meeting the PFs, whether they would 25 improve in this area.

Q. Do you believe that quote --

A. Hold on.

If you go also on Page 38 starting on Line 19: As to both timing and cost, schedules are based on productivity factors that Westinghouse and CB&I represents can be met given the current status of the project. Meeting these productivity factors will pose a challenge to Westinghouse and CB&I, but doing so will benefit the project both in terms of cost and schedule. For that reason the owner has no basis or interest in insisting that Westinghouse/CB&I should use less challenging assumptions; however, SCE&G does recognize that Westinghouse and CB&I has set itself a significant challenge as to future productivity.

So I do believe that the essence of what you're talking about was captured in this testimony. In addition to that, there is — this is just the prefile testimony. The total hearing process before the Public Service Commission involves a summary of the testimony and then question and answers from intervenor's attorneys and the commissioners themselves. So I don't know what else I might have said in those other forums.

(DFT. EXH. 33, copy of transcript

Q. And isn't it true that you never told the Commission that the Consortium actually pegged a specific time period in which it could attain that goal of the PF, a time period of six months?

A. I don't -- I don't know what difference it would make to say that the Consortium is pledging to get to a specific PF, whether it was over a day, six months or a year if, 1, they haven't attained it historically; and 2, if the company had doubts as to whether or not they will be able to attain them.

Q. The reason it matters here, Mr. Byrne, is because the promise was made seven months ago and the Consortium didn't meet its goal. So there is actually specific evidence that that assurance that the Consortium had given the company was no good, just like the past assurances.

MR. BALSER: Objection. Argumentative, and there is no question.

Q. (Continued) Let me ask you a question.

The representation that the Consortium had made to the company of reaching a PF of 1.15, that was made in August 2014; is that correct?

A. That was on the presentation. That's correct. Yes.

before Public Service Commission of South Carolina, marked for identification.)

BY MR. COX:

Q. So, Mr. Byrne, I've handed you a document marked Exhibit 33. It's an excerpt from a hearing transcript dated July 21st, 2015 in which you were called as a witness on behalf of SCE&G.

Isn't it correct, Mr. Byrne, that at this conference you adopted your prefile testimony in whole?

A. I did.

Q. And that was under oath; correct?

A. That's correct.

Q. So returning back to my earlier question, I think you're saying that in your prefile testimony you pointed out that the Consortium would have a real challenge to meet the PF factor projected and that it had said it could do that; right?

A. What I said was the Consortium has had problems with meeting productivity factors and in proposing a new schedule they increased those productivity factors across the board and that they would be challenged in meeting those productivity factors.

Q. And the Consortium said that it could reach that goal in six months; correct?

A. I believe that's right.

Q. And the Consortium did not meet that goal six months after August 2014, did it?

A. No. The Consortium's goal was to reach that PF in six months, and it did not get there. That's correct.

Q. And isn't it true that your prefile testimony which you adopted at a hearing under oath did not reveal to the Commission that the Consortium had stated that it could reach that goal in six months?

A. Did my prefile testimony say anything about six months? No. I don't know what difference that makes; however, if they didn't meet the goal, whether it was at six months, a year, a day, and the company said -- not just myself, but other witnesses said that we didn't think they were going to be able to meet the goal. And I said that fairly consistent through testimony and --

Q. And isn't it true, Mr. Byrne, that your prefile testimony that you adopted under oath did not reveal that the Consortium had not met that goal six months after it made that pledge?

233 235 1 testimony? Again, I'll go back to my previous 1 2 answer. I think that what I and other company 2 A. In the testimony on Page 38 at Line 21 3 3 witnesses testified before the Commission was that I said: Many of those productivity factors would 4 the performance factor had not been met and the 4 pose a challenge to Westinghouse and CB&I, but 5 5 doing so would benefit the project. SCE&G has no performance factor was not likely to be met and 6 6 that the Consortium had adopted a higher interest -- continuing on the next page. No basis 7 7 performance factor across the board going forward. or interest in assisting and WEC/CB&I should use 8 8 less challenging assumptions. However, SCE&G does So if I didn't think it was going to be 9 9 recognize that Westinghouse/CB&I and has set itself met, I'm not sure it's germane to say: Oh, by the 10 way, they haven't -- they've done exactly what I 10 a significant challenge as to future productivity. 11 11 said. They haven't met it. So it's your testimony that that 12 12 So it's your testimony that the company paragraph indicates that the company was pointing 13 13 stated that it was -- that the Consortium was not out that its unlikely that the Consortium would 14 reach its goal of the productivity factor? 14 likely to meet its goal? 15 Yeah. I think the statement fairly 15 A. We've said that it would be a challenge 16 well speaks for itself that the company was 16 for them to meet the goal that they set for the 17 performance factor. That's correct. 17 skeptical that the Consortium was going to meet its 18 Did the company testify that it -- did 18 goal. 19 19 the company provide testimony that the company Yet in the following paragraph, 20 believed it was unlikely that the Consortium would 20 Mr. Byrne, isn't it true that you stated, quote: 21 reach its goal of a PF of 1.15? 21 For these reasons, I can affirm that these 22 22 The company said that it would be schedules represent the best and most definitive 23 challenging for the Consortium to reach their 23 forecast of the anticipated costs and construction 24 24 schedule required to complete this project that is performance factor. 25 25 Did the company testify, Mr. Byrne, available as of the date of the filing -- this 234 236 1 that it would be unlikely for the Consortium to filing of the testimony. End quote. 2 reach its goal of a PF of 1.15? 2 That's correct. 3 3 Was that specific language used? Q. And do you believe that statement was 4 O. 4 true? 5 5 I just -- I told you what the company Α. testified to, and the specific language that you're 6 6 Mr. Byrne, you mentioned the SCE&G O. 7 7 posing wasn't in what the company said. schedule team that reviewed the Consortium's 8 Mr. Byrne, I'm proposing that language 8 schedule analysis; is that right? 9 9 because you said it, and I don't recall saying A. You're talking about the 2014 Estimate 10 10 that. I recall seeing the language about the of Completion? 11 Correct. 11 challenge. Q. 12 12 A. What did I say? A. Yes. 13 13 You said that the company testified You don't have any personal knowledge Q. that it was unlikely that the Consortium would 14 of the method that that team used to assess the 14 15 reach that goal of a productivity factor of 1.15. 1.5 Consortium's schedule, do you? 16 No. You're putting words in my mouth 16 The team did give a presentation on the 17 17 that did not come out of my mouth. method that they went through to evaluate the 18 18 Consortium's schedule. I don't have a recollection I said the Consortium would not meet their productivity goal. I didn't say anything 19 of what it is off the top of my head, no, and I 19 20 20 don't have the presentation. about 1.15. You said that. 21 Okay. So your testimony is that the 21 You didn't perform the assessment 22 22 vourself: correct? company told the Commission that the Consortium was 23 unlikely to reach its productivity goal? 23 A. I did not perform it myself. A very 24 A. That's correct. 24 experienced team from SCE&G did perform that along 25 25 And where did the company provide that with Santee Cooper.

239 237 1 1 negotiations with the Consortium and based on the Do you have any personal experience in 2 2 developing construction schedules for nuclear mitigations that I knew that they were going to 3 3 projects? have to try to rely upon that I would have come to 4 When you say "construction schedules 4 the same conclusion, that relying on earlier dates 5 for nuclear projects" -- I'm not a scheduling 5 was probably not wise. 6 6 expert. I've never professed to be a scheduling Q. And why is that? 7 7 Again, because of mitigations that the expert, so I rely on scheduling experts that work 8 8 Consortium would have to do. for me. 9 9 So, you know, if they were looking at MR. BALSER: When you reach a good 10 stopping point -- we've been going almost two 10 having to hire so many more people or they're not 11 improving their PF as they would want to, some of 11 hours. We should take a break. 12 the mitigations that they were doing at some 12 MR. COX: I just have a couple more 13 13 questions on this point. vendors was going to take some time in my mind. So 14 MR. BALSER: Yeah. 14 my anecdotal impression just based on being in 15 negotiations and interfacing with the folks from 15 BY MR. COX: 16 CB&I and Westinghouse was that it would have been 16 Q. I think you testified earlier, 17 Mr. Byrne, that the internal SCE&G schedule 17 probably towards the later end of their own 18 assessment team in 2014 said it would not be 18 schedule. And then when your own team comes to you 19 19 and confirms that, and that was what I ... realistic to use earlier substantial completion 20 20 dates than June 2019 and June 2020; correct? MR. COX: Okay. Let's go off the 21 21 Α. Correct. record. 22 THE VIDEOTAPE SPECIALIST: This 22 Q. That's information that they told you. 23 23 concludes Video No. 3 in the video deposition of That was not your personal conclusion; is that 24 Steve Byrne. The time is approximately 4:11. We 24 correct? 25 25 are now off the record. It certainly is information that they A. 238 240 1 gave to me, and being involved in the negotiations 1 (Short recess taken.) 2 with executive teams from CB&I and Westinghouse I 2 (DFT. EXH. 34, EAC Review Team 3 3 would also have come to the same conclusion that Preliminary Update, marked for identification.) 4 relying on earlier dates was probably not wise at 4 THE VIDEOTAPE SPECIALIST: We are now 5 5 that point in time. back on the record. Today's date is October 23rd, 6 6 Q. It was based on the previous failed 2018. The time is approximately 4:17 p.m. This is 7 7 promises of the Consortium? Video No. 4 in the video deposition of Steve Byrne. 8 8 BY MR. COX: What previous failed promises? 9 9 The ones that you referred to in your Mr. Byrne, I've had labeled Exhibit 34 10 10 -- or that the company referred to in its May 2014 to your deposition -- it's a Power Point slide and labeled "EAC Review Team Preliminary Update 11 11 12 12 Preparation For 10/13/14 Executive Meeting," Bates A. Yeah. I'm not sure that I would say that my assessment of the schedule was based on 13 labeled SCANA RP024674 through 686. 13 anything in 2014. 14 Were you present at this briefing? 14 15 You were relying on your schedule 15 I think that I was. A. team's analysis in forming your conclusions 16 And the names on the first page of this 16 regarding the most accurate schedule; is that 17 document -- Kim Brown, Margaret Felkel, Kevin 17 18 correct? 18 Kochems, Shari Wicker and Kyle Young -- were those A. 19 the individuals that were on the SCE&G Estimate to 19 The team that did the evaluation was 20 performing the most accurate schedule evaluation on 20 Complete cost team in 2014? 21 21 the EAC, ves. They were -- ves, they were. 22 You relied on their analysis? You 22 And just to be clear, there were no 23 didn't perform your own; correct? 23 other SCE&G cost estimate teams put together other 24 Did not perform my own specific 24 than this one; is that correct? 25 detailed analysis. What I said was based on my 25 Not that I'm aware of. And this team

241 243 1 1 can only tell you what is written. did report to Carlette Walker. I don't know to 2 2 what extent Miss Walker may have had input into Q. Is it your understanding that the EAC 3 3 team believes that the CB&I FNM plan is too this outcome. 4 4 aggressive and that CB&I wouldn't be able to meet Q. The third page of this document is 5 5 its goals in that respect? labeled "CB&I Direct Craft Productivity." 6 6 If you look at the third bullet down, Again, I can just tell you what is 7 7 isn't it true that the SCE&G EAC team had written on here, which is that the FNM plan is lean 8 8 and the EAC team does not anticipate that CB&I will calculated the cost that would be associated with 9 9 be able to comply with this plan. the 1.40 PF that it anticipated occurring for the 10 rest of the project? 10 Is it correct to say that a goal in the project is to keep the FNM ratio as low as 11 What was the question again? I'm 11 A. 12 12 possible? sorry. 13 13 Sure. Isn't it true that the SCE&G EAC I don't know that I would agree with O. 14 team calculated an approximate cost associated with 14 that. Certainly FNM could be looked at as 15 15 the higher to-go PF of 1.40 that it anticipated overheads and more cost. 16 16 versus the 1.15 that the Consortium anticipated? So yes; the project -- the owners --17 The EAC team certainly did calculate a 17 from the owner's perspective you would want to keep 18 to-go cost based on a 1.4 PF. 18 costs as low as possible, so you would want to keep 19 19 And that cost was 101 million, overhead as low as possible. However, you have to 20 approximately; correct? 20 balance that with the fact that some of these field 21 That's what it appears here, yeah. 21 nonmanual personnel may actually be performing A. 22 tasks that could actually accelerate the completion 22 The next page of this document is 23 labeled "CB&I Schedule Impact." There is some 23 date by things like resolving engineering issues. 24 24 So a field engineer would be an example handwriting on that page. 25 25 Do you recognize whose handwriting that of somebody who is a field nonmanagement personnel, 242 244 is? 1 1 and the owners were actually pressing the 2 2 I don't. I can -- safe to say it's not Consortium to use more field engineers. So the 3 3 mine because I can read most of it. FNM, I think, had to be taken with a grain of salt. 4 If you scroll through two pages further 4 If you can turn to --5 5 to the page Bates numbered 24679, there is a slide A. And I'm not sure that the financial EAC 6 6 entitled "CB&I Shield Building Risk." evaluation team necessarily would recognize that. 7 Isn't it correct to say that the SCE&G 7 O. Why do you say that? 8 EAC team calculated a cost of 14.9 million in 8 Well, people with a financial A. 9 9 connection with the shield building that the background are looking at giving you information 10 10 Consortium had not included in its cost estimate? that's going to minimize costs, but wouldn't 11 necessarily be looking at the other side of that 11 That's what it appears, yes. 12 On the next page, Bates labeled 24680 12 equation in that it may improve schedule to have 13 13 entitled "CB&I Field Nonmanual," the second bullet field engineers at the site. 14 point states that, quote: EAC team verified the Kim Brown and Kyle Young had 14 15 15 EAC using the current CB&I FMN plan, which is lean. engineering expertise; correct? 16 The EAC team does not anticipate that CB&I will be 16 Both of those individuals had 17 engineering expertise, but I don't know to what 17 able to comply with this plan. 18 18 extent they participated in the financial aspects Can you explain what this means? 19 of this. Well, I can tell you that FNM is field 19 20 20 Okay. If you could turn two more pages nonmanual personnel. So field nonmanual personnel 21 further to Page 24682 labeled "CB&I Woodlands 21 would be people that support the craft but are not 22 Cuts." This says, quote: CB&I cut the EAC by 296 22 members of the craft. So they're not direct craft 23 million at a very high level. How these cuts will 23 labor or indirect craft labor, but they would be 24 be realized has yet to be determined. Under target 24 professional or semi-professional employees. But I 25 25 price scheme all actual costs are reimbursed. can only -- since this isn't my presentation, so I

Is it correct to say that the EAC team in this slide is pointing out that CB&I has estimated a cut of 296 million in costs that if it's not realized would be reimbursed to the contractor in full?

A. I don't know that to be the case necessarily.

Some of the things that are in here -in distributors, for example, I don't know what is
going to be in there. Some of the direct
subcontracts could be in the fixed price portion of
the contract. So I don't think it's a good
assumption to just say that you can assume 296
million will be billed to the office.

- Q. Isn't it fair to say, though, that the EAC team here is pointing out that it is not convinced that CB&I can realize this cut in cost that it projects in this category?
- A. I think what the EAC team is pointing out is that CB&I has taken a reduction here. So they're saying that we're going to reduce these costs, but they don't at the time know where those costs are going to come from. So that was yet to be determined.
 - Q. If you could turn back to Exhibit 15,

careful study and review that you're referring to of the Consortium's cost projections, that study and review was done by the team that consisted of Kim Brown, Margaret Felkel, Kevin Kochems, Sheri Wicker and Kyle Young; correct?

A. Well, what I know is that that team did this review. What I'm telling you is a lot of time transpired between this review and the development of the testimony and the case. So there could have been other information that went into it.

So I'm not willing to acquiesce to the fact that this review is the only thing that went into the file.

Q. And that's fair enough. I understand your point that there might have been work product by this team.

What I'm trying to understand from you is whether the review that you're talking about in your testimony on Page 38 -- if you're referring to the work that this team did -- this team listed in Exhibit 34 -- did both before that document was prepared and afterward.

A. Well, what I was referring to in testimony would be what the company financial witness would be testifying to.

your prefile testimony. If you could turn to Page 36 of your testimony. Actually turn to Page 38, please. On Line 9 of Page 38 you say, quote: They are based on the cost projections and construction schedule data that WEC/CB&I has provided to SCE&G in which SCE&G has carefully studied and reviewed consistent with its duties as owner, end quote.

The review that you're talking about with respect to cost projections is the work done by the EAC review team that is referenced on the front page of Exhibit 34; correct?

A. This EAC review team output that is Exhibit 34 was in October of '14. This prefile testimony and the subsequent hearing were much later in 2015.

So I don't know that there weren't a number of changes between this report coming out and what was submitted as a part of the financial aspects of this. And while introduced by me, there would have been a financial witness associated with the case as well.

- Q. And who was that?
- A. I think it was Carlette Walker, who this team reported to.
 - Q. And my question to you is that the

Q. But this is your testimony; right?

A. This is my testimony. But not unusual in testimony, as I think you're probably aware, that lead witnesses for the company would talk about other witnesses presenting other areas.

And so, yes. My -- as the lead witness for the company I'm talking about everything in the project, but there were other witnesses in this process. So you're asking me about this specific evaluation and this specific team and I'm telling you I don't know that this specific evaluation and this specific team went into what was filed and that I'm talking about the company did do a detailed review -- and that's true -- and that the specific information about that would be contained in the other company witness who was the financial witness at that hearing.

Q. Fair enough. Let me just ask a broader question.

What review are you referring to with respect to the cost projections that the company did?

- A. The review that would be discussed by the company financial witness.
 - O. And I understand that witness is

discussing it. You reference it -- you say that SCE&G has carefully studied and reviewed the cost projections, and I want to understand what your knowledge is of what the company study and review was.

A. So I'm aware of the fact that the company put a team together that was under the financial group. So this would be under the CFO's wing. So Jim Addison was the CFO. Carlette Walker would have been the VP reporting to the CFO and Carlette Walker's team would have done the evaluation.

So I know that Carlotte's team worked on the evaluation. I believe that I participated in this out-briefing. I don't know that I didn't participate in more out-briefings. You're talking about something that was a number of years ago and that the financial witness was the one presenting the financial information to the company.

Yes. I'm talking about it in this presentation and I'm aware of the fact that the company had done a detailed review, but you asked me earlier whether it was this team, this report, and I don't know that that is necessarily the case.

Q. Is it correct to say that you're not

Q. Is it correct to say that the financial witness would be the person who is in the best position to know the work that the company did to review the Consortium's cost estimate?

A. Certainly the financial witness would be the best person to ask those questions of, yes.

Q. If you could turn to Page 43 of Exhibit 15. On Line 5 there is a question presented to you: Why are disputed amounts properly included in the cost schedules presented here?

And you answer: The BLRA requires SCE&G to present the anticipated cost to complete the project. SCE&G in no way disputes the fact that the project will incur the amount presented here to complete the units. The question is who is required to absorb these additional and disputed costs, end quote.

Was that a true statement?

A. Yes.

Q. And it's correct to say that the cost schedules that the company was presenting to the Commission in March 2015 from the Consortium -- the company was not saying that it was obligated to pay a hundred percent of those cost estimates?

A. What the company was saying was that

aware sitting here today of any other review done by the company of the Consortium's cost projections other than the review performed by the financial witness and the review team listed in Exhibit 34?

A. Let me just say that I would be very surprised if an October 6th report was the last thing that the company did on this before filing.

Q. And I'm probably making a mistake or confusing the issue by tying it to that document, because I don't mean to Ty it to that document. I mean to Ty it to the work of that team. And so my question is: Are you aware of any work that the company did to review the Consortium's cost schedules that was performed by any other part of the company other than the financial witness and this team that we referred to that produced Exhibit 34?

A. I'm not aware of anything that would not have been in the financial witness's presentation.

This team may have been augmented with other folks and this team may have done more work. So I just don't want to leave you with the impression that this is it. This is final. These things are generally iterative.

the cost that the company was going to have to pay was going to be 90% of those invoices or charges that were disputed, and so the 90% figure was what was included in these figures.

Q. So you're saying that the cost schedules the company presented in March 2015 had already been reduced to reflect amounts that the company did not believe it had to pay the Consortium?

A. Again, let's look at it this way: The Consortium had invoiced the company for certain charges. The company was rejecting some, paying nothing, not included in this file. For others the company was saying: We're disputing those. And it isn't that the charges are not legitimate. It isn't that they're paid. It's a question of who is going to pay them, and there was some dispute over that.

So disputed charges under the EAC contract would be paid at 90%. So the company was letting the Public Service Commission know that there were charges that were disputed and the 90% was included here, not the hundred percent, such that if the company were not to prevail on the claim there may be additional charges coming.

Should the company prevail on part of the claim there might be some money coming back.

- Q. Isn't it fair to say, though, that in this answer what you're telling the Commission is that the cost schedule that you're providing the Commission from the Consortium, the company is not agreeing that it is responsible for paying all of those anticipated costs?
- A. What the company is saying is that there is a dispute. So where the company says there is just no way that we're responsible for these, those are not included in here. So those were rejected. Those invoices were rejected.

For invoices where there is a dispute, perhaps the Consortium is right. They certainly take the position that they're in the right. The company takes the position that it is in the right. The approved contract says you pay at 90%. So that it's the 90% charges that are included here.

- Q. Well, here we're talking about projected costs, not incurred costs; correct?
- A. In some cases it's things that the Consortium had billed for, but the company had not recouped up to that point in time. It may actually be for services that had already been rendered, but

responsible to pay for a hundred percent of those costs. The company has a dispute over that position. Under the contract the company is required to pay 90% of disputed invoices, and the dispute will get worked out at some point in the future.

So without any way to know how that resolution is going to take place the company deferred to the contract, not wanting to breach the contract and paid the 90% and let the Commission know that should there be a resolution to those disputed issues that that money could be recouped, but also there is a chance that if the company didn't prevail on those issues it would actually be responsible for a hundred percent.

So there was a dispute over the costs. The costs were real costs. We weren't disputing the fact that the money had been spent; it was just a question of who was responsible for paying that charge, if you will.

- Q. But this document isn't about costs that have already occurred, is it?
- A. Well, it could be about costs that have already occurred if the Consortium is making the point that the company was eligible to pay them and

the company hadn't paid them. So we hadn't — we hadn't put them in rates, if you understand what I'm saying.

So some of the costs may have been projected, but some of the costs were actually costs that had been incurred by the Consortium and they're trying to get costs recovered from the company.

- Q. So is it your testimony that the anticipated costs that the company is presenting to the Commission here to complete the project, that the company is acknowledging that it's responsible for paying a hundred percent of those costs?
- A. No. My testimony was that the company was responsible for paying 90% of the costs under the EPC contract.
- Q. So the number that -- the number reflecting the anticipated future cost to complete the project that the company is presenting to the Commission here, the company is stating that it is not responsible for paying a hundred percent of those costs; correct?
- A. Well, let's see if I can say this a better way perhaps.

The Consortium would say the company is

the company has not yet paid them.

Q. Let me ask it to you one more way and see if this will avoid any confusion.

It's true that the company did not reduce the Consortium's cost estimate to reflect the amount of money that the company believed it will ultimately have to pay to the Consortium?

- A. I'm not sure -- that didn't clear it up for me, so I'm not sure that I understand. You say that the company did not include amounts -- well, how about you ask the question again.
- Q. Yeah. Let me -- isn't it true that SCE&G took the cost estimate that the Consortium prepared in August 2014 and presented that number to the Commission without making any edits to it?
 - A. No. That's not the case.
- Q. What edits were made to it?
- A. Edits were made for charges that the company contested. Edits were made for charges that the company said the Consortium was not eligible for. Edits were made for liquidated damages, offsets. So there were changes made. There were offsets.
- Q. And owner's cost was added too; correct?

65 (Pages 257 to 260) 259 257 1 1 Owner's cost was included. And I don't myself the company is not waiving the privilege on. 2 remember off the top of my head, but there may have 2 Are we talking about a specific meeting 3 3 been some change orders that were edited as well. here? 4 You referenced earlier in your 4 Α. Huh? 5 testimony that the legal team advised the company 5 O. It sounds to me like -- let me ask you 6 6 that it would be speculative to use the PF factor this question: Did that advice factor into the 7 7 that the internal SCE&G team anticipated would company's decision to use the 1.15 PF in its March 8 occur for the rest of the project instead of the 8 2015 filing? 9 Consortium number; correct? 9 A. I believe that's the case, ves. 10 A. That's correct. 10 Q. Who made that decision? 11 Q. Who on the legal team provided that 11 I don't recall who made the decision. A. 12 12 advice? You don't know who made the decision to 13 A. I don't know that it was one lawyer. I 13 use the 1.15 PF rather than the 1.4 PF? think it was the company's regulatory attorneys. 14 14 A. I don't recall who specifically made 15 15 So that would have been Chad Burgess, Makis & that decision. Banner, and then two external regulatory attorneys 16 16 O. Was Mr. Marsh involved in these 17 that the company used, Mitch Willoughby and Belton 17 meetings? 18 Zeigler. 18 A. Mr. Marsh was certainly involved in the 19 19 Was this one meeting where this advice meetings. 20 occurred or was it numerous ones? 20 Did you make the decision? Q. A. I don't recall. In reviewing testimony 21 21 Not that I recall. A. 22 generally it was done in a room something like 22 Q. Did Carlette Walker make the decision? 23 this, perhaps even a little bit larger than this, 23 I don't recall who made the decision. A. 24 with a relatively large group of folks that would 24 Do you know of any reason that the 1.15 25 always include the four attorneys that I just 25 PF was used in the PSC filing other than the 258 260 1 mentioned. It would typically also include our 1 recommendation of counsel? 2 2 general counsel, witnesses, and then some support I think, as has been enumerated in the 3 3 staff. filing by myself and other witnesses - and I think 4 So it was -- I don't remember it being 4 I saw -- I remember seeing something this morning 5 5 one meeting. I remember it being discussed at that was a question from ORS where I think a 6 6 multiple sessions. similar answer was given that it would be in the 7 7 And do you recall which one of those company's best interest to hold -- I'm paraphrasing 8 attorneys provided that advice or more than one? 8 -- to hold the Consortium's feet to the fire, not 9 9 A. I believe that it was their consensus to give them an out at all on their 1.15; that even 10 10 opinion that that was the case; but again, you though you don't think necessarily that they can 11 would have to -- that's about all I know about that 11 make it, you want to push them to do as good as 12 topic. So you would have to ask the legal 12 they can do or as well as they can do. And then 13 13 department for that, the answers to those when the experts, the people who own the schedule 14 14 questions. who have all these construction expertise are 15 15 No. I would like to know if you telling you that we think we can do this, to say actually received that information directly from 16 16 "well, I'm going to do that plus something else" 17 17 them that -that would be viewed as contingency. 18 A. I think I just told you that that was 18 Isn't it true, Mr. Byrne, that there 19 19 information that I received from our legal was no prohibition on SCE&G informing the 20 department, and I've named the four attorneys 20 Commission that it calculated a higher to-go PF 21 involved. I told you when it took place, and I 21 than the Consortium had calculated? 22 believe it was their consensus decision. 22 I'm sorry. Say that again. 23 23 Sure. Isn't it true that there was no Now, if one specific attorney told me, 24 I don't know. And I've also been advised that 24 prohibition on SCE&G notifying the Commission that

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it had calculated a higher likely to-go PF than the

specific discussions between SCANA attorneys and

66 (Pages 261 to 264) 261 263 1 Consortium had calculated? 1 different EAC cost than the Consortium, did you? 2 2 Was there a prohibition? I'm not aware I don't recall that being the case. 3 3 of any prohibition, but I don't know why the Q. Is it your testimony that the ORS was 4 4 aware of the calculations made by the SCE&G EAC company would want to proffer a higher PF than the 5 5 company, pending consensus format, decided was the team? 6 6 appropriate PF to use and the PF that the I believe that the ORS was aware of 7 7 Consortium's -- at least aspiration said that they that. I don't know that to be the case here, sir. 8 8 wanted to achieve, particularly in light of the Why do you believe that? 9 9 fact that when your attorneys are advising you to **Because the Office of Regulatory Staff** 10 use something that wasn't -- don't use something 10 made frequent visits to the site. I've been shown that might be viewed as contingency. 11 11 today a question came from the Office of Regulatory 12 12 Staff relative to that PF. The audit group at the Isn't it correct to say, Mr. Byrne, 13 that the company could have informed the Commission 13 Office of Regulatory Staff had an office out at the 14 that it had calculated a higher to-go PF, but that 14 site and they had interactions with the NND team, it would not allow the Consortium to recover any 15 15 both financial team and construction team on at additional costs that would accrue from that higher 16 16 least a monthly basis. 17 PF? 17 So I believe the ORS had access to all 18 The company did withhold monies higher 18 the information that SCE&G has. I didn't 19 19 than the PF. So anything above the 1.15 PF money personally have those interactions with the Office 20 20 was withheld from the Consortium for that. of Regulatory Staff, so I don't know. 21 Couldn't the company have told the 21 Did the ORS have access to Exhibit 34? Q. 22 What is Exhibit 34? 22 Commission: We don't think the Consortium can meet A. 23 the PF that it projects it's going to achieve and, 23 The October 2014 EAC review team Power Q. 24 therefore, the costs are likely going to be higher 24 Point. 25 25 than the Consortium is anticipating? A. No. 262 264 1 I think I did say that this would be a 1 So it's your testimony that the ORS had 2 big challenge for the Consortium to hit and let the 2 the historical productivity data on the project; 3 Public Service Commission know that there could be 3 correct? 4 higher costs. 4 I believe that the Office of Regulatory 5 5 You also said that the Consortium's Staff would have had access to the historical data 6 6 cost estimate was the best cost estimate that you on the project. Correct. 7 7 were aware of: correct? But isn't it true that you don't know 8 That's correct. 8 that ORS had access to the specific calculations of 9 9 And isn't it true that the company EAC the anticipated cost that the SCE&G 2014 EAC team 10 team did come up with a different cost estimate 10 reached? 11 than the Consortium's? 11 So what I'm telling you is I didn't 12 So a team from the company did at least 12 have personal interactions with ORS on this topic. at one point in time run a higher PF. They could 13 13 I had actually relatively few personal interactions have run all kinds of PF numbers. They could have 14 14 with the Office of Regulatory Staff. So you would 15 run numbers between 1.4 and 1.15. They could have 15 probably have to ask either ORS or the NND 16 run a number of one. They could have run all kinds 16 financial team or NND construction team about their 17 of numbers. 17 level of interaction on this topic with the Office 18 They chose to use a number that the 18 of Regulatory Staff. 19 experts gave to the company that said this is what 19 And that's fine. And I can understand 20 we can -- we want to achieve, and I think that 20 you're short-circuiting the conversation. I just 21 based on the advice of our attorneys to do anything 21 want to establish for the record that you are not 22 other than that would have been viewed as 22 testifying that ORS had access to the cost 23 contingency, which in their minds was not allowed. 23 calculations performed by the SCE&G 2014 EAC team. 24 You didn't reveal to the Commission 24 I believe that the Office of Regulatory

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Staff had access to all the information that our

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that the internal company had calculated a

			07 (1 45 65 203 to 200
	265		267
1	team had. The one exception that you mentioned was	1	SCE&G EAC team determined that the Consortium's PF
2	a privileged document. So our attorneys told me	2	goal was not achievable?
3	that that document was privileged, and I didn't	3	A. I don't know that I've seen this
4	have the authority to release that privilege.	4	document before, so all I can do is go by what is
5	Q. Are you talking about Exhibit 34?	5	written here. So I didn't have any conversation
6	A. You were the one that brought up	6	with them about this document.
7	Exhibit 34 a minute ago.	7	Q. Okay. You did not mention in your 2015
8	Q. Yes.	8	PSC testimony that SCE&G did not believe the to-go
9	A. So I think you said 34 was the October	9	PF by the Consortium was not achievable?
10	22nd report.	10	A. I believe that I testified that the PF
11	Q. Take a look at it.	11	that was used by the Consortium would be difficult
12	A. (Witness complies.) No. I'm sorry.	12	for them to achieve, and I believe I said it would
13	Not 34. I thought you were talking about something	13	be a challenge. So I think that the gist of what
14	different.	14	is here was in the testimony.
15	Yeah. I don't know if the Office of	15	Q. You think that your testimony let the
16	Regulatory Staff had this. I don't have any reason	16	Commission know that the Consortium's PF was not
17	to believe that they wouldn't have, but I don't	17	achievable?
18	know that they did.	18	A. I believe that I believe that my
19	Q. Okay. And I want to ask a more general	19	testimony was accurate on the topic of PF and that
20	question; and I don't mean to repeat it, but I feel	20	it would be difficult for the Consortium to
21	like I haven't gotten a yes or no answer.	21	achieve.
22	You do not know whether the ORS had the	22	Now, even this team doesn't know that
23	information the calculations made by the 2014	23	it's impossible. So I think that perhaps they were
24	SCE&G EAC team; correct?	24	overstating it here, but I think that I captured
25	A. My personal interactions with the	25	the gist of the team's comments when we presented
	266		268
1	Office of Regulatory Staff did not include that, so	1	the testimony to the Public Service Commission,
2	I can't say definitively that they had it.	2	yes.
3	(DFT. EXH. 35, V.C. Summer Units 2 & 3	3	Q. This team turned out to be correct; is
4	2014 EAC Analysis and Discussion of Cost Changes,	4	that right?
5	marked for identification.)	5	A. Well, I don't know if the team turned
6	BY MR. COX:	6	out to be correct. No.
7	Q. Mr. Byrne, I've handed you a document	7	Q. SCE&G is the entity that commissioned
8	labeled Exhibit 35 to your deposition. It's Bates	8	this team to do its work; correct?
9	No. RP_0015652 through 16 I'm sorry. 15658.	9	A. That's correct.
10	It's an EAC validation report.	10	(DFT. EXH. 36, email chain, marked for
11	Have you ever seen this document	11	identification.)
12	before?	12	BY MR. COX:
13	A. I don't recall seeing this document,	13	Q. Mr. Byrne, Exhibit 36 is an email from
14	no.	14	Michael Crosby to you entitled "BCS NND Target
15 16	Q. On the top of Page 3 the document says,	15	Costs." It includes several Power Point
16 17	quote: In its EAC the Consortium assumed that the	16	attachments.
18	project would reach a goal PF of 1.15 within six months. This does not appear to be achievable.	17	If you can go ahead and review this, I
19	The owner does not believe the assumed to-go PF of	18 19	would like to have you review the Power Point
20	1.15 is achievable with the current CB&I	20	attachments to this email when you're prepared to do so.
21	organization. So that each review team	21	A. (Witness complies.) Okay.
22	recalculated the costs with a PF factor of 1.40	22	Q. So the first Power Point slide the
23	to-go. This resulted in the owner's EAC estimate	23	top of it is labeled "Target Cost 64.2 Million Over
24	increasing 167,461,000 for direct craft labor.	24	EAC Basis in Five Months Following Receipt of EAC."

			68 (Pages 269 to 272)
	269		271
1	the project in the five months since the Consortium	1	Q. Who else was there?
2	gave you its estimate had overshot the Consortium's	2	A. Jason Williams was there and they had
3	estimate by \$62.4 million?	3	one other they had one other employee whose name
4	A. I'm not sure.	4	escapes me.
5	Q. Is that what this chart reflects?	5	Q. Is it fair to say that the information
6	A. Yeah. This is a Santee Cooper document	6	in this email that Mr. Crosby sent to you on April
7	and it does state the 62.4 million, but I don't	7	6, 2015 that you had that information at the
8	know this to be necessarily the case.	8	time that you received the email?
9	Q. The chart the first chart on that	9	A. That I had this information?
10	page, Direct Craft Productivity, it shows actual	10	Q. Right.
11	PFs greater than 1.5 for every month since the	11	A. I don't know that I I did not have
12	Consortium's EAC estimate; correct?	12	this information in this format. So I would say
13	A. At or above. Yeah.	13 14	that no; I wouldn't say that.
14	Q. What was the nature of your	1	Q. Is it fair to say that you received
15	interactions with Mr. Crosby during the course of	15 16	this email from Mr. Crosby?
16	the project?	17	A. I have no reason to doubt that I
17	A. My interactions with Mr. Crosby?	18	received the email.
18 19	Q. Right.	19	Q. And is it your common practice to
20	A. He was a counterpart to me. We were both on the what was called the Executive	20	review emails that you receive from Mr. Crosby? A. Yes.
21	Steering Committee that met quarterly. Mr. Crosby	21	
22	was involved in most of the negotiations with the	22	Q. So is it fair to say that you reviewed these attachments to this email at or near the time
23	Consortium. So I would speak with him relatively	23	that you received the email?
24	frequently. Not necessarily in person, but on the	24	A. I would say that's likely.
25	phone.	25	Q. Mr. Byrne, you had mentioned that you
20	phone.		Q. 1411. Byrne, you had mentioned that you
	270		272
1	Q. Is it fair to say that he was very	1	had considered other companies to do an assessment
2	concerned during the course of the project about	2	of the project aside from Bechtel; is that correct?
3	the productivity problems?	3	A. Correct.
4	A. Certainly, as we all were.	4	Q. What were the names of those other
5	Q. Would you characterize him as being	5	companies?
6 7	among the more concerned in your group about those	6	A. I covered one earlier called Atkins
8	issues?	7 8	International. The other two companies, I can't remember the names.
9	A. I don't know that I could characterize him that way.	9	
10	Q. Was your company doing these charts	10	Q. Was one of them Southern Cross Management?
11	that he sent you?	11	A. Possibly.
12	A. Yeah. I don't know that I believe	12	Q. You can't recall the other two
13	that our NND teams were doing productivity charts.	13	companies for sure?
14	I don't know that they did the ones that he sent	14	A. I don't. I don't remember.
15	me.	15	(DFT. EXH. 37, email chain, marked for
16	Q. You refer to these as Santee Cooper	16	identification.)
17	charts.	17	BY MR. COX:
18	Mr. Crosby's email says that Marion	18	Q. Mr. Byrne, I've handed you an email
19	worked with Business and Finance. Do you	19	labeled Exhibit 37. It's an email chain between
20	understand that to be SCE&G Business and Finance?	20	you and several other individuals, including
21	A. I would say that's likely.	21	Mr. Crosby.
22	Q. Mr. Cherry was the only Santee Cooper	22	If you can go ahead and take a few
23	employee permanently stationed at the project;	23	moments to review the email. I have questions for
24	correct?	24	you about the initial email at the end of the
25	A. No.	25	document. It's sometimes useful to start at the

		69 (Pages 273 to 2	,, 0,
	273		275
-		1 P. 1 O. 1 22 1 20150	275
1	end of the document, the first email.	Point on October 22nd, 2015?	
2	A. (Witness complies.) So you're talking	2 A. That's correct.	
3	about the one that's on Page 2 on October 31, 2014?	Q. And it's correct that you received a	
4	Q. Correct.	4 hard copy strike that.	
5	A. Okay. Okay.	5 Isn't it true that you received an	
6	Q. What was the purpose of your initial	6 electronic copy of this presentation soon after it was made?	
7	email to Mr. Marsh, Addison, Crosby, Canning and		
8 9	Jones on October 31st, 2014?		
10	A. We had evidently been discussing doing	9 Q. Do you know how long after it was made? 10 A. I couldn't tell you.	
11	having an outside assessment done, and this was letting them know some of the companies that I had	11 Q. Was it within a week?	
12	been considering for the outside assessment.	12 A. I don't know.	
13	Q. And this email reflects that one of the	13 Q. Are you personally aware of whether	
14	companies you in fact were considering was Atkins;	Bechtel had access to schedule information from the	
15	correct?	15 Consortium?	
16	A. Correct.	16 A. I'm aware of what Bechtel said about	
17	Q. And you were also considering Southern	their schedule information from the Consortium a	nd
18	Cross Management Services; is that correct?	18 I'm aware that they had said that they had	·IIu
19	A. Yes.	difficulty in obtaining documents from Westingho	nise
20	Q. And it's correct that one purpose of	primarily and CB&I and that they had some	use
21	getting a third party was to look at the schedule	difficulty within redactions in documents, and I	
22	on the project; correct?	22 know that their scheduling person said that he	
23	A. Yes.	could not run their schedule. I guess he received	
24	Q. Mr. Byrne, the information that you	it on some kind of a drive but could not run the	
25	testified to earlier regarding information you	25 schedule.	
1	274		276
1			
	received about Bechtel's past performance on other	So yeah; I'm aware that Bechtel said	
2	projects, you did not have firsthand exposure to	2 they had problems with documentation.	
2	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that	 they had problems with documentation. Q. And were those statements made in the 	
2 3 4	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that correct?	 they had problems with documentation. Q. And were those statements made in the October 22nd presentation? 	
2 3 4 5	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that correct? A. Did I have firsthand exposure to	 they had problems with documentation. Q. And were those statements made in the October 22nd presentation? A. They were. And Bechtel had raised some 	
2 3 4 5 6	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that correct? A. Did I have firsthand exposure to Bechtel on those projects that they had problems	 they had problems with documentation. Q. And were those statements made in the October 22nd presentation? A. They were. And Bechtel had raised some issues with regard to access to documents through 	
2 3 4 5 6 7	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that correct? A. Did I have firsthand exposure to Bechtel on those projects that they had problems with? No, I did not.	 they had problems with documentation. Q. And were those statements made in the October 22nd presentation? A. They were. And Bechtel had raised some issues with regard to access to documents through the evaluation period as well. 	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	projects, you did not have firsthand exposure to Bechtel's performance on those projects; is that correct? A. Did I have firsthand exposure to Bechtel on those projects that they had problems with? No, I did not. Q. All that information was relayed to you by other individuals who became aware of it; is that correct? A. That's correct. And then later by media. Q. If you could turn to Exhibit 21. It's the October 2015 Bechtel presentation. A. Okay. Q. You referred to this as a draft of a presentation. Isn't it true that this is the actual presentation that was given to the executive team on October 22nd, 2015? A. This was a presentation given to the executive team on October 22nd labeled by Bechtel	they had problems with documentation. Q. And were those statements made in the October 22nd presentation? A. They were. And Bechtel had raised some issues with regard to access to documents through the evaluation period as well. Q. Many of those concerns were resolved; correct? A. Some of those concerns were resolved. I don't know that I would I don't know that I could categorize it as many. Q. You testified earlier that you didn't think Bechtel was working on the schedule the entire time. How do you know that? A. I know that they brought their schedule person in a little bit later than the team that showed up originally. So my team, Mr. Archie and Mr. Jones, indicated to me that I think his name was Jason Moore did not show up right away with rest of the team. Q. But you don't know that Bechtel wasn't	

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1	their own admission they only worked on this for	1	agreement with Bechtel to do an assessment of the
2	seven weeks.	2	project?
3	Q. You testified earlier you were	3	A. I was informed that the assessment was
4	interviewed by Bechtel; correct?	4	going to be done and I was informed that it would
5	A. I testified earlier that I was	5	be done by an outside law firm and it would be
6	interviewed by Bechtel. That's correct.	6	privileged.
7	Q. You were interviewed by Carl Rau;	7	Q. And your understanding or you were
8	correct?	8	informed that your company agreed to that
9	A. Carl Rau and Dick Miller.	9	arrangement; correct?
10	Q. Were you ever interviewed by Mr. Rau on	10	A. I'm telling you that's what that's
11	his own?	11	what I was informed.
12	A. Not that I recall.	12	Q. And isn't it true that SCE&G paid
13	Q. Did you ever mention to Mr. Rau	13	Bechtel \$1 million to perform the assessment?
14	anything about not wanting to go to jail over the	14	A. I believe the owners paid Bechtel a
15	project?	15	total of a million dollars through yeah; both
16	A. I believe that that was during the	16	owners. So 55% would be SCE&G and 45% would be
17	interview with Rau and Miller where Mr. Rau was	17	Santee Cooper.
18	pressing me for details on the negotiations that	18	Q. For a total of \$1 million?
19	were covered by a nondisclosure agreement between	19	A. That's my understanding, yes.
20	the owners and Westinghouse.	20	Q. At no point in time did you notify ORS
21	Q. And how did that concern what did	21	about the Bechtel assessment; is that correct?
22	that concern about jail relate to?	22	A. Certainly I did not notify anybody
23	A. Well, I didn't want to violate the	23	about the Bechtel assessment. Our attorneys told
24	covenants of the nondisclosure agreement. So that	24	me that it was privileged, and I didn't have the
25	was what the comment was. I don't remember the	25	authority to release that privilege and discuss
25	was what the comment was. I don't remember the	25	authority to release that privilege and discuss
	278		280
1	specific comment, but it was something to that	1	that report.
2		1 2	that report. Q. If you turn to Exhibit 21, the October
	specific comment, but it was something to that effect. Q. Did you feel that Bechtel was pressing	1	that report. Q. If you turn to Exhibit 21, the October 2015 presentation. If you turn to page Bates No.
2 3 4	specific comment, but it was something to that effect. Q. Did you feel that Bechtel was pressing you for information that you couldn't provide due	2 3 4	that report. Q. If you turn to Exhibit 21, the October 2015 presentation. If you turn to page Bates No. 6950 of the presentation there is a chart on the
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281 283 1 roughly around the same time frame. 1 So Bechtel had actually scaled back on 2 You would agree that the 2015 amendment 2 the work week. Bechtel had actually scaled back on to the EPC was actually executed on October 27th; 3 3 the back shift, the number of people working on the 4 4 correct? back shift. They had scaled back on that number. 5 5 A. Correct. They had scaled back the number of craft proposed, 6 6 So it's correct to say that SCE&G was total craft proposed to work. 7 7 aware of this Bechtel Power Point prior to So they were scaling back on the number 8 8 of craft and they were scaling back on the hours execution of the 2015 amendment to the EPC? 9 9 the craft were working and they were -- they Certainly SCE&G, which would include 10 10 our attorneys, were in the presentation along with included some assumptions around no improvements, 11 mitigations for the current PF. So no anticipation 11 Santee Cooper when this draft presentation was 12 12 given. of any mitigations for any of the civil work, which 13 13 What attorneys were present for the would include no improvements for Unit 3 over Unit Q. 14 14 Bechtel presentation? 15 15 I know that from the SCE&G side Ron So there were a number of assumptions 16 16 Lindsay was present. I would have to see my notes that Bechtel used that were kind of big picture 17 17 on that meeting. We may have those here. But I that I didn't necessarily agree with and that the 18 think George Winick was present. I don't recall 18 Consortium at the time wasn't working towards and 19 19 how many attorneys from the Santee Cooper side were that Fluor ended up not working towards. 20 present. Maybe I should find those notes. 20 So you mentioned a couple of 21 O. It's Exhibit 22, I believe. 21 assumptions that I have listed here. You mentioned 22 22 A. 22. So Mike Baxley was the general Bechtel made an assumption on limiting work hours 23 23 that you didn't agree with, total craft and shifts, counsel for Santee, Ron Lindsay was the general 24 counsel for SCE&G, and then George Winick, outside 24 and you also said that Bechtel didn't give credit 25 25 to mitigation efforts on productivity factor; is attorney for both companies. 282 284 1 At the bottom of Page -- Exhibit 22 the 1 that correct? 2 2 bottom right corner there is several lines of text Α. Correct. 3 there. The top line says: Better than previous. 3 O. Are there any others? 4 Do you know what that means? 4 They made adjustments to the second 5 5 unit, moving it out to 18 months without I'm not sure. 6 6 Do you have any thoughts as to what it necessarily a justification. O. 7 7 likely is? Q. Do you mean the schedule completion 8 8 It's not ringing a bell. date? 9 9 That skepticism that you had about They put a split between the units. So 10 10 Bechtel's motives in performing the assessment, you between Unit 2 and Unit 3. They had moved that out had that skepticism at the time that you received 11 11 by six months. 12 the October 22nd, 2015 briefing; correct? 12 Q. What page is that? 13 I had the skepticism from well prior to 13 That is on Page 24. A. A. 14 that, yes. 14 Did you feel that was an assumption or O. 15 I think you mentioned that you didn't 15 a conclusion? 16 feel the Bechtel assessment was reliable because of 16 A. It looked to me like it was an 17 the assumptions that Bechtel used; is that correct? 17 assumption. 18 The schedule portion of that 18 I read that as being part of their 19 assessment, I didn't think it was reliable because 19 results of the Unit 2 and 3 commercial operation 20 of some of the assumptions that they used, yes. 20 dates are now separated by 18 months. Do you read 21 What are the assumptions that you felt 21 it differently? 22 were not worthy? 22 Yeah. I read it differently. A. 23 Some of their high-level assumptions on 23 What do you think the assumption is? 24 working hours. So that's how many people hours 24 I think that they're just using their 25 would be working on the project. 25 experience in saying we don't think that you can

bring the unit in within 12 months and we just want to arbitrarily move it out 18 months.

Q. Any other assumptions that you felt were not appropriate that Bechtel used?

A. Well, without knowing all of their assumptions I'm just going based on the assumptions that they listed here.

The other thing that led me to believe that the schedule was not to be relied on was their warning up front that -- I think it was Carl Rau gave when he said a much more in-depth or robust look -- something along those lines -- would be needed for the schedule; their criticism of the documentation, that they didn't have accurate documentation, and then their last bullet on Page 25 says: A more robust approach is needed prior to finalization of any changes based on target schedule.

So by Bechtel's own assessment they're admonishing not to make changes based on a more robust assessment.

Q. And I appreciate that. I'm focusing just on your assumption points. You had made several points about your concerns that the Bechtel assessment, and I was focused on assumptions.

2015 that the Consortium could improve productivity factors despite the fact that they hadn't been able to at that point in time?

A. The answer is yes and no. And I'm not trying to be evasive. Yes; I thought that they could improve efficiencies and practices. The work streams that Fluor, Westinghouse, Southern and SCANA went through, I told you earlier that the NND team gave feedback that that was one of the best processes that they had ever seen from any of these contractors. So that did give us reason to have confidence. However, as I also explained earlier some of the mitigations were actually going to decrease the PF.

So if I had a back shift, for example, Fluor certainly was looking at adding a back shift and staffing it up to a thousand people. That would mean you're doing work at night, whereas previously you're not doing work at night, but there is a turnover, a hand-off, and any turnover/hand-off means some level of inefficiency.

So some of the things that they were going to do were actually going to make things less efficient. So would the PF number have necessarily gotten better? No; I'm not sure that it would

Are there any other assumptions that you had a problem with other than the ones you've mentioned here so far?

A. Well, the fact that the civil progress and performance will remain unchanged. Their piping in electrical progress they say is based on similar Bechtel experience, and I'm not sure that similar Bechtel experience would be relevant for a couple of reasons.

1, this is a different type of construction. It's modular construction, which Bechtel hadn't been involved with and they had no experience building under 10 CFR Part 52 and the fact that the only people with experience building under Part 52 was Westinghouse and their contract partner, their construction partner, and the two utilities, Southern and SCANA.

Again, they peaked craft at 3,700, where I think the CB&I numbers were more like 4,500.

That's all that hits me as I'm reading this now.

Q. You mentioned the mitigation efforts on the productivity factor.

Were you still hopeful in October of

have, but with the October 2015 agreement the PF number meant cost to the owners, and with a fixed price cost that really was ameliorated for the owners anyway.

- Q. Now, it turned out that -- Bechtel's assessment of the schedule on the project turned out to be more accurate than the Consortium's schedule that existed at that time; correct?
- A. Well, I don't know necessarily that it was more accurate than what the Consortium had. You know, the Consortium had access to things that Bechtel did not have access to, just like SCE&G did not have access to some of these things. You know, quantities and commodities, for example. That's something that Bechtel would tell you that they did not have, but Fluor and CB&I at the time and Westinghouse would have had access to those.

So there were things that that team didn't have — the Bechtel team didn't have access to. So I don't know that they necessarily were more accurate. I think that what they were trying to do was gain worth on the project. You know, if you look at their desire to come in as owner's engineer, the fact that one of their executives called Kevin Marsh at one point saying "hey, we've

1.5

got a couple of hundred people that have been freed up at another facility. Can we send them your way" just lends you to believe that they want to come in and do work on the project.

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So one of the thought processes was they want to give you a schedule that they know that they can achieve and probably come in and do better and look good.

- Q. If Westinghouse had not declared bankruptcy, when did you anticipate Unit 2 would be substantially complete?
 - A. When did we? Is that the question?
- Q. Right; if Westinghouse had not declared bankruptcy.
- A. Yeah. I think the short answer is we don't know what that is going to be. I know what the -- the date from Westinghouse was at the time. I know that the EAC team went through an evaluation, but that evaluation was really different. That was getting rid of Westinghouse in the EPC role. It was self-performed by the utility, having a little bit of Westinghouse engineering and start-up support and starting again with a -- you know, a contractor, whether that was Fluor or somebody else to do the construction.

A. Yeah. Again, another reason to believe that the Bechtel report was not accurate.

- Q. It was too optimistic; is that right?
- A. It could have been. I just think that the Bechtel -- 1, Bechtel told us that they would need a more robust approach. They warned us not to use this to make changes. They made assumptions that, you know, were not assumptions that the utility would have used, and in fact were not utilized in the EAC that the utility came up with going forward and had to make some high-level assumptions about things that they didn't know because they didn't have access to some of information.
- Q. You mentioned the federal production tax credits earlier.
 - A. Yes.
- Q. The schedule assessments by the Bechtel report would put obtaining those tax credits in jeopardy; correct?
- A. The Bechtel report would have, absent those tax credit dates being extended, which they ultimately were.
- Q. I'm sorry. They ultimately were?
 - A. They were extended.

So a similar process to what the Southern Company is going through on the Vogtle project. So in reality they're different. They're different questions. So had the EPC still been in place with the fixed price option, that protection, and Westinghouse was incented to get this thing done, \$5 billion plus hitting schedule milestones before they get paid, I'm not sure what they would do.

- Q. But it's correct to say that SCE&G's analysis in 2017 after Westinghouse's bankruptcy indicated a substantial completion date of the units even later than what Bechtel had projected in 2015; correct?
- A. That was under a different model, though. As I just outlined, it was a different premise. But the EAC team that SCE&G put together did come up based on the assumptions that they used with Westinghouse not being involved, no fixed price contract -- did come up with a different premise. Yeah.
- Q. And the numbers that SCE&G came up with for completion dates even under those different circumstances were even later than the dates that Bechtel was coming up with; correct?

Q. To what dates were they extended?

A. I don't know that they have a finish date on them. And at the time of cancellation the legislation to change that was through the House of Representatives and had not yet come to the Senate, but Southern Company and SCANA were working very hard to try to make that happen.

- Q. You mentioned earlier that you did not have a final report from Bechtel until February of 2016; correct?
 - A. That's correct.
- Q. Isn't it true that SCE&G suggested that Bechtel not write a report after the October 2015 presentation?
 - A. Yeah. I don't know what SCE&G suggested. I can tell you that when I had a conversation in December with Mr. Troutman he asked me what I thought, and I told him I thought that the presentation was enough. So that's not an SCE&G position; that was my thoughts. Because he just asked me for my opinion. I gave him my opinion. But Bechtel was working with the law firm from Atlanta to do this report. So whatever direction they were going to get was going to come from that law firm.

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	293		295
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1	Q. You testified earlier that you did not	1 p.m. 2 BY MR. COX:	
2	edit the Bechtel report; is that correct? A. That's correct.		
3		Q. You're looking at the October 2015 agreement?	
4	Q. Did you provide recommendations to	_	
5 6	anyone in management or to Mr. Wenick as to the		
	edits to make to the Bechtel report?	6 A. 26? 7 Q. Okay.	
7 8	A. No, not that I recall.		
9	(DFT. EXH. 38, Bechtel Schedule	8 MR. COX: Let's go off the record. I 9 need a moment to find something.	
10	Assessment Report, marked for identification.) BY MR. COX:	10 THE VIDEOTAPE SPECIALIST: We wil	l now
11	Q. Mr. Byrne, Exhibit 38 to your	go off the record. The time is approximately 5:39	I IIOW
12	deposition is a Bechtel Schedule Assessment Report	12 p.m.	
13	dated February 5th, 2016.	13 (Short recess taken.)	
14	Did you receive this document in	14 THE VIDEOTAPE SPECIALIST: We are	now
15	February of 2016?	back on the record. The time is approximately 5:44	
16	A. I did receive this document. It may	16 p.m.	•
17	have been in February; it may have been a little	17 BY MR. COX:	
18	bit later, but I certainly received the document.	Q. Mr. Byrne, did you ever express the	
19	Q. You had this document at the time that	opinion that your feelings were hurt by the Bechtel	
20	you submitted your prefile testimony to the PSC in	20 assessment?	
21	the 2016 modification docket; correct?	A. I don't recall ever expressing that	
22	A. Do you recall what date that was? I	22 opinion.	
23	don't know off the top of my head.	Q. Were your feelings hurt by the Bechtel	
24	Q. You don't recall? That's fine.	24 assessment?	
25	A. I don't recall.	A. My wife would tell me I'm an engineer	
	294		296
1		1 and I don't have feelings	296
1 2	Q. You mentioned the CORB. How many times	1 and I don't have feelings. 2 O What would you say?	296
2	Q. You mentioned the CORB. How many times did that group meet?	2 Q. What would you say?	
2 3	Q. You mentioned the CORB. How many times did that group meet?A. I'm not sure. It would have been	 Q. What would you say? A. No. I would say that when Mr. Troutma 	ın
2 3 4	 Q. You mentioned the CORB. How many times did that group meet? A. I'm not sure. It would have been three, maybe four times. 	Q. What would you say? A. No. I would say that when Mr. Troutma asked me about what I thought about the report.	nn , I
2 3	Q. You mentioned the CORB. How many times did that group meet?A. I'm not sure. It would have been	Q. What would you say? A. No. I would say that when Mr. Troutma asked me about what I thought about the report did tell him that I was disappointed in the report	nn , I
2 3 4 5	 Q. You mentioned the CORB. How many times did that group meet? A. I'm not sure. It would have been three, maybe four times. Q. Do you know when its first meeting was? A. I think it was in the fall of 2016. 	Q. What would you say? A. No. I would say that when Mr. Troutmate asked me about what I thought about the report did tell him that I was disappointed in the report I don't remember ever saying anything about	nn , I
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297 1 Q. The 2015 amendment did not fix owner's 1 as robust or was more robust? Do you have any 2 2 costs; is that correct? memory of that? 3 3 A. I don't have any memory. That's correct. 4 4 Isn't it true that if the Bechtel And isn't it true that if the --O. 5 5 schedule was adopted that that would increase the A. Because the amendment was between the 6 6 owners and the EPC counter-party, and the EPC owner's cost on the project? 7 7 counter-party was not in a position to fix owner's A. Had the Bechtel schedule been adopted, 8 8 I'm not sure why either of the owners would have a costs. 9 9 reason to adopt the Bechtel schedule when Bechtel Q. Owner's costs by definition are not EPC 10 costs with the contract; correct? 10 themselves said that you shouldn't make any changes 11 11 They're the owner. That's correct. without a more robust review. 12 12 And isn't it true that if the schedule O. I understand that you feel that the 13 13 gets extended then that will increase owner's cost predicate for the question is not realistic, but 14 14 on the project? I'm asking you if the Bechtel schedule was viewed 15 as the schedule for the project, that would result 15 That's correct. If the schedule is Α. 16 in an increase in owner's costs for the project 16 extended largely because of the number of people 17 that are on the project, that would stay in the 17 versus the Consortium's schedule that was in 18 18 same capital while the project is under effect. 19 19 construction. It would roll over to O&M once the As we discussed owner's costs a minute 20 project is completed. So that would add costs. 20 ago, any schedule that would not have -- that would 21 And in your 2016 testimony to the PSC have been further out than the Consortium schedule 2.1 22 would have resulted in an increase in owner's 22 you did not reveal to the PSC the fact of the 23 Bechtel assessment, did you? 23 costs. 24 Again, the Bechtel assessment was 24 Q. SCE&G retained Bechtel in 2017; 25 25 privileged; and I was informed by our attorneys correct? 298 300 1 1 that it was privileged, and I did not have the A. I think there is an Atlanta law firm 2 2 authority to release that privilege. that actually retained Bechtel in 2015. Is that 3 3 And you did not in your 2016 PSC what you said? 4 testimony reveal to the Commission the substantial 4 Q. 2017. 5 5 completion dates that Bechtel had assessed, did Oh, 2017? You're talking about a you? 6 6 different retention. 7 7 Α. I didn't talk about anything relative Westinghouse entered into a contract 8 8 to the Bechtel assessment, no. for staff augmentation with Bechtel in -- I think 9 9 You presented the construction schedule it was January of 2017. It may have been signed in 10 10 from the Consortium again; is that correct? December. I don't know, but I learned about it in 11 11 Presented the construction schedule 2017. 12 that the Consortium had presented to the owners 12 When Westinghouse declared bankruptcy, 13 after the negotiation of the EPC contract --13 I think it was Ty Troutman gave me a call to say: 14 amendment to the EPC contract that the New Nuclear 14 We've given Westinghouse notice of cancellation of 15 Development Team had had an opportunity to review. 15 the contract. 16 And is it your testimony that SCE&G did 16 I think what he said was they had a 17 the same schedule review for the Consortium 17 30-day cancellation provision. So as soon as they 18 schedule in that docket that it did in the 2015 18 learned about the bankruptcy they gave notice under 19 docket? 19 that provision of whatever contract they had with 20 It certainly did a review of the 20 Westinghouse to provide for staff augmentation. He 21 schedule. I don't know that it was the same review 21 was very concerned about the folks that Bechtel had 22 as the 2014 EAC review, which would have been in 22 that were working the project and coming to work 23 23 the project and wanted to enter into a specific the 2015 docket. 24 Do you have any belief now that the 24 agreement with SCE&G for when the cancellation 25 review of the schedule for the 2016 docket wasn't 25 happened with Westinghouse.

301 303 1 And the end result is SCE&G entered 1 concerned about was Fluor now coming in as a 2 into an agreement with Bechtel for Bechtel to 2 subcontractor construction manager, and Fluor based 3 3 perform services on the project? on their Project Bluefin was looking at 4 A. SCE&G based on that request did enter 4 significantly ramping up the work force, which the 5 5 into an agreement. I don't recall if -- about the owners agreed with needed to happen. 6 6 time that that agreement was -- that SCANA legal So what Westinghouse was asking for was 7 7 had approved that agreement Mr. Troutman gave me a money to ramp up the Fluor work force, bring Fluor 8 call and said basically: We're done. We're out of 8 on and do some of these other mitigations that they 9 9 wanted to do and acknowledging that they had more 10 So I don't recall off the top of my 10 expenses than they would have been allowed to bill 11 the owners for under the EPC contract. So that was 11 head whether the agreement had been signed at that 12 a negotiated amount. So Westinghouse was looking 12 point or not. 13 13 It's true, though, that SCE&G was at for far more than a hundred million dollars. I least prepared to enter into an agreement with 14 think they were looking for like \$140 million a 14 Bechtel for Bechtel to perform services on the 15 month, and that was negotiated down to a hundred, 15 16 project? 16 with the provision that there would be a true-up at 17 A. Staff augmentation, yes. 17 the end. At least that's what the owners thought 18 18 You were aware at the time of the 2015 that they had negotiated. 19 19 amendment to the EPC that Westinghouse could use But ultimately the DRB found that 20 the bankruptcy code to invalidate the price and 20 true-up did not exist; correct? 21 performance guarantees that SCE&G had built into 21 A. Well, I don't know that they found the 22 the 2015 amendment; correct? 22 true-up didn't exist. The language for true-up 23 Say that again, at least the first 23 certainly exists. The DRB, though, ordered that 24 part. When was your time frame? 24 the true-up not take place. So I don't know -- I 25 25 You were aware at the time of the 2015 can't remember what the rationale was for that. 302 304 1 EPC amendment that Westinghouse could use the 1 And again, our legal department really was handling 2 2 the DRB efforts. bankruptcy code to invalidate the pricing and 3 3 performance guarantees that SCE&G had built into You mentioned the term "risk premium" 4 the 2015 amendment? 4 in conjunction with the 2015 amendment, and I think 5 5 Well, I'm not an attorney. Certainly you said that the risk premium that was agreed to 6 6 not a bankruptcy expert. So I would have to say I was \$500 million; is that correct? 7 7 was not necessarily aware of that. Α. Roughly, yes. 8 The initial payments to SCE&G -- I'm 8 Was that at the time of the execution 9 9 sorry -- to Westinghouse after the 2015 amendment of the 2015 amendment or at the time the option was 10 10 was executed, those were a hundred million dollars executed the following year? 11 a month: correct? 11 It was the time the option was Α. 12 The payments to Westinghouse -- I think 12 executed. 13 it was starting in January -- were a hundred 13 O. Just so I understand the meaning of 14 14 "risk premium," are you saying that the premium million dollars. 15 And that was an increase from the 15 that Westinghouse wanted over its anticipated cost 16 amount that Westinghouse had previously been 16 to complete the project was 500 million to cover 17 receiving under the prior version of the EPC; 17 any risks that it might be undershooting its 18 correct? 18 projections? 19 19 The amounts that Westinghouse was The contractor gave us an Estimate to 20 receiving under the prior version of the EPC would 20 Complete. So that's what they thought they could 21 vary based on a number of factors, including 21 do it for. When the company said "will you be 22 hitting milestones. So what Westinghouse asked for 22 willing to fix the total price," they said we would 23 was consideration for their ramp-up in costs that 23 fix it with a risk premium. 24 they were going to have to do mitigations. 24 Now, how they developed the risk 25 One of the things that they were very 25 premium -- you know, they talk in terms of running

305 307 1 1 what your assumptions were in the vast majority of Monte Carlo analysis and that kind of thing; and I 2 2 don't know how exactly they do it, but it's cases it was better -- SCE&G was better off to take 3 3 intended to cover their risk that they're now advantage of a fixed price option than not taking 4 taking on for a variety of different factors, which 4 advantage of the fixed price option. 5 5 could include, you know, labor shortages, hard Q. Mr. Balser asked you earlier about any 6 6 labor rates, second shifts, work stoppages. planning that the company did in October of 2015 to 7 7 Whatever it is, they would have to factor those take into account the possibility of a Westinghouse 8 8 bankruptcy, and I think you referred to that as into their risk analysis. 9 9 contingency planning. And you mentioned that you So their answer back to us was roughly 10 \$500 million was their risk premium to fix the 10 had received representations from Westinghouse that 11 price. 11 they were committed to the project. 12 Was there any other contingency 12 But that conversation had to occur in 13 October of 2015 because Westinghouse didn't have a 13 planning that SCE&G did aside from accepting those 14 choice the following year on whether the option was 14 representations? 15 15 A. The owners did retain bankruptcy exercised. 16 16 A. Correct. The option was a part of this counsel. There was a provision in the contract 17 17 that if the parent company bond -- if the bond agreement. 18 So that risk premium is the premium 18 ratings dropped below a certain amount that that 19 19 that Westinghouse believed existed in October 2015; would trigger a performance bond. 20 20 correct? So that clause was triggered. And 21 21 That's correct. there was a provision in the contract stemming from A. 22 22 Q. Because ---2008 to escrow intellectual property, and that 23 23 intellectual property escrowing was kicked off. Well, it's a risk premium that the 24 contractor in October of 2015 was going to apply to 24 SCE&G did not hire a bankruptcy 25 the project over what is the duration of the attorney at the time of the October 2015 amendment, 25 306 308 1 1 project. did it? 2 2 Q. And that's not necessarily the risk SCE&G and Santee Cooper certainly hired premium that SCE&G viewed; correct? Because you 3 3 a bankruptcy attorney. I don't recall what the 4 might have had -- your company might have had a 4 timing was on it. I don't recall if it was -- I 5 different assessment of what the anticipated costs 5 think it was at that time or after that time. It 6 were for the project; correct? 6 may have been after that time. I don't recall. 7 Well, I think in the evaluation that 7 My understanding is that concerns 8 SCE&G did of the costs, if you assume different PFs 8 increased, of course, in 2016 about the possibility 9 9 of a bankruptcy. And just to be clear, I'm and different labor rates you come to an assessment 10 referring here to planning that SCE&G did at the 10 as to where those costs are going to factor out. And so SCE&G through Dr. Lynch did do an assessment time of execution of the 2015 amendment. 11 11 12 that pointed out that the \$500 million was only in 12 You mentioned a performance bond. Was 13 13 four of 24 scenarios higher than what the model was that in the 2015 amendment or the original EPC? 14 saving the costs are. 14 What was the first part of that 1.5 15 question? What is the question again? My understanding also is Santee Cooper 16 ran a separate analysis that justified the fixed 16 The question again is: What steps did 17 price option being -- the \$500 million risk premium SCE&G take in October 2015 at the time of the 17 18 being a good deal for its customers. 18 execution of the 2015 amendment to have a 19 Q. I guess that's what is confusing me. I 19 contingency plan in case of a Westinghouse 20 thought Dr. Lynch's analysis showed that there was 20 bankruptcy? 21 really no risk premium. This was just a good deal 21 I don't know if I can narrow things 22 for SCE&G in 2016 and there was no premium that 22 down to at the time of the October of 2015 23 23 SCE&G was going to be paying over the anticipated amendment. I know that somewhere around that time 24 cost of the project. Is that not right? 24 frame there were a number of actions that SCE&G 25 What it showed is that depending on 25 took that were considered contingent planning for

309 311 1 the eventuality that Westinghouse may not perform 1 The dollar amount was variable because 2 under the contract. 2 it was a percentage of what had been spent on the 3 3 You know, one of the things that project. 4 4 Toshiba did was made a visit to Columbia and I would like to turn to your 2016 5 presented to the CEOs of the two companies, SCE&G 5 testimony. It's Exhibit 29. You reference on Page 6 6 and Santee Cooper, their plan for restructuring and 9 of your testimony several aspects of the 2015 7 7 financial health. So I know that was one aspect of amendment. 8 evaluating the Toshiba liquidity. And certainly 8 Which --A. 9 through 2016 their stock price performed basically 9 Q. Exhibit 29. 10 in accordance with their plan. So it looked like 10 Got it. 29. A. Toshiba was recovering. The amendment did have as 11 11 Page 9 of that document there is a Q. 12 a part of it a reaffirmation of the parental 12 section starting at Line 12 labeled "EPC Contract 13 Amendment." It says: Please describe the guarantee by Toshiba. And again, our legal 13 amendment. And you state that the amendment 14 department handled that, the bankruptcy counsel 14 that was retained. And that, again, was between 15 15 resolves current disputes. Santee Cooper and SCANA's counsel. So I wasn't 16 16 It's fair to say, though, Mr. Byrne, 17 involved in that. I just was aware of the fact 17 that the 2015 amendment created a new dispute 18 that we did retain counsel. The timing on it, I 18 regarding whether a true-up payment should occur; 19 19 don't know -- I believe it may have been after the right? 20 October 2015 agreement. 20 A. I think the dispute that was taken to 21 The parental guarantee was not 21 the Dispute Resolution Board was really over the increased in the 2015 amendment; correct? 22 cash flow streams for the milestone payment 22 23 The parental agreement was not 23 schedule. The true-up issue was just embroiled in 24 increased. That's correct. 24 that. 25 25 Q. In fact, the parental guarantee was O. But that's a new dispute that occurred 310 312 1 decreased because CB&I's guarantee was waived to 1 because of the 2015 amendment; correct? That DRB 2 2 allow it to leave the project; correct? process. 3 3 Α. No. A. The DRB process was created by the 4 O. How is that incorrect? 4 amendment, yes. 5 5 You said that the parental guarantee Q. But the dispute that was being resolved 6 6 by the DRB was a dispute that arose as a result of was decreased, and that's not the case. 7 7 Okay. Let me rephrase the question. the 2015 amendment; correct? 8 The original EPC agreement had a 8 The dispute arose out of the milestone 9 parental guarantee from Toshiba and a guarantee 9 payment schedule, which was a part of the 10 10 from CB&I; correct? agreement. 11 11 The 2015 --A. It had parental guarantees from those Q. 12 two companies. 12 A. The 2015 agreement. 13 13 And isn't it true, Mr. Byrne, that one And the parental guarantee from Toshiba was not increased in the 2015 amendment; correct? 14 of the reasons that SCE&G did not pursue a fixed 14 1.5 15 price EPC in 2008 was because, as you testified With -- de facto it was. Not the 16 amount, not the percentage. But they're now 16 earlier, there was a project in Europe that had 17 17 been embroiled in litigation that involved a fixed covering the whole project. So rather than just 18 covering a portion of it -- but even before that 18 price agreement; correct? 19 19 they were -- the term "jointly and severally" A. I certainly said that and that's 20 20 certainly true, and what I said was that the NND liable. 21 21 negotiation team was aware of that issue and that's So again, I don't know that there was a 22 22 need for a reaffirmation of the parental guarantee, why the structure was the way the way the structure 23 23 but the legal department felt strongly about that. was. 24 Was the dollar amount of the guarantee 24 In 2008 -- and I should say prior to 25 increased in the 2015 amendment? 25 2008. So probably in the 2006 -- 2006 or 2007 time

frame Westinghouse was asked for -- or the Consortium, I should say, which was Shaw and Westinghouse, was asked for a fixed price. And their risk premium at that point in time was very high. I don't know that Westinghouse gave -- well, I don't know where they came up with the number, but they just gave a number that was too high. I don't recall what the number was. I just remember the team coming back saying this is way too high.

Q. And isn't it true, though, that the project in Europe made SCE&G leery about entering

into a fixed price agreement because of the risk of

A. I think that the project in Europe, as
I pointed out earlier, was helping to define how
the project should begin. And that project was
fixed price from the start. And so the thought
process was, as Ron Clary would describe it to me,
who was running the NND negotiation team at the
time, as the project gets further along, as the
supply chain gets further developed, as labor is
sorted out, as the design gets further along you

should be able to fix more and more of the project. So that was the concept that SCE&G had going in, and in fact the original EPC contract had presentation from -- an audience with Toshiba in order to better understand their financial standpoint.

- Q. And that was before the 2015 amendment?
- A. I don't remember the exact time frame on it. So I would have to look at what the time frame was. I don't have it available to me.
- Q. So that could have been a meeting that occurred after the 2015 amendment was already in effect?

A. I don't remember what the time frame was.

Q. What information did SCE&G have regarding the schedule for the project in 2017 that it did not have earlier?

A. All of that information I don't know. Again, I'm not a schedule expert. I do have scheduling experts that work for me. The team that did the evaluation seemed very pleased with the amount of cooperation that they were now getting from Westinghouse. They seemed also pleased with the unfettered access that they had to Fluor. Some of the things that they had access to were subcontracts, some of the big vendors that were supplying things that they didn't have access to

in it a provision to increase the amount fixed over the first couple of years, which was done.

Q. The Point No. 3 on that page, Mr. Byrne, references the increase in liquidated damages provision.

Isn't it true that Westinghouse never paid liquidated damages on the project?

A. As a result of the bankruptcy they never paid liquidated damages.

Q. And that's even the case though they did --

A. To the best of my knowledge.

Q. And that's the case even though they did not meet the guaranteed substantial completion dates; correct?

A. Again, to the best of my knowledge. What the company did with that after my retirement, I really don't know.

- Q. Did SCE&G ask for any information regarding Westinghouse's financial health as part of the 2015 negotiations?
- A. I don't recall looking for information on the Westinghouse financial health. I'm not saying it didn't happen; I just don't recall it. But I do know that the two CEOs asked for a

previously.

Quantities of commodities was something else that the team had access to now that they did not previously have access to. But all of those things you would have to ask one of the folks on that team to say what all of the things were that they had access to now that they didn't have access to before.

- Q. It's correct that you cannot specifically identify what information SCE&G had in 2017 to assist in determining an Estimate to Complete that it didn't have earlier?
- A. No. I think I've just identified for you a number of things that it had that it didn't have earlier. What I said was there is likely more than that. You would have to ask somebody on that team.
- Q. So you said quantities?
 - A. Ouantities of commodities.
- O. Quantities of commodities. What else?
 - A. Subcontracts.
- Q. What else?
- A. Access to Fluor.
 - Q. Access to what?
 - A. Fluor. Information from Fluor. Unit

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319 317 1 rates. Those kind of things. 1 all. 2 And it didn't have all that information Q. 2 You're saying -- you're saying that you 3 3 before? would prefer -- go ahead. 4 A. It didn't have all that information 4 Here is what I said: I realize it 5 5 before. would be inconvenient, but wouldn't it be better to 6 6 Q. Had it asked for that information? set up an electronic reading room where we can 7 7 The project, including Westinghouse, assure that no copies are made and no further 8 regarded some of the things that they considered 8 dissemination took place. 9 9 trade secret to them that they didn't let anybody So that would mean that the co-ops 10 else have. SCE&G certainly pressed them for 10 would have access to it in an electronic reading 11 information at times in the past that was not 11 room. 12 12 forthcoming. So the bankruptcy did seem to change But you wanted assurances that no 13 that. 13 copies of it were made; correct? 14 I'm trying to balance the needs that 14 Q. Who made those requests from SCE&G? The project level folks at SCE&G did. 15 15 Santee Cooper has for their largest customer, A. There were times when I asked for some information 16 16 co-ops, and that our general counsel has for not 17 from leadership at Westinghouse, including their 17 wanting to disseminate any information on it, but 18 CEO at the time, Danny Rodrick, and they were told 18 defer to them. So the attorneys were the ones that that -- I was told that once you go closed book, 19 19 made the decisions about the electronic reading 20 20 which is standard in contracts -- I'm accustomed to room, and the answer was no. 21 that even from the non-nuclear side, fossil hydro 21 And your preference was that the co-ops 22 received that Bechtel report in electronic reading 22 side and transmission side. Once you go closed 23 book the contractor doesn't want to give you a lot 23 room rather than receiving a physical copy of it; 24 of the information. So that's not unusual. 24 correct? 25 25 What did you ask for that was rejected? A. It was just a suggestion. 318 320 1 1 I can't remember specifically what I That was your suggestion, though; O. 2 2 asked for. I do recall, though, in meetings with correct? 3 them through the years asking for more information 3 A. Just a suggestion. 4 that our team was looking for and was told that 4 (DFT. EXH. 40, email chain, marked for 5 5 that was in the closed book portion. identification.) 6 6 I believe it was in contracts, BY MR. COX: 7 7 Q. Exhibit 40, Mr. Byrne, is another email subcontracts that they had with some of the 8 vendors, but was told that was in the fixed price 8 exchange, the same initial email from Mr. Baxley 9 and it's closed book and you can't have access to 9 with a different response by Mr. Bynum and to 10 10 Mr. Baxley and Ron Lindsay, and Mr. Bynum says, that information. 11 (DFT. EXH. 39, email chain, marked for 11 quote: I met with Kevin, Steve and Ron late 12 identification.) 12 yesterday and this is one of the topics that we 13 13 BY MR. COX: discussed. They are adamantly opposed to this 14 14 release. They suggest that we discuss this at our Mr. Byrne, I've handed you an email 15 exchange dated November 21st and 22nd, 2016 15 face-to-face meeting on the 30th, end quote. 16 16 involving you, Ron Lindsay and Al Bynum and Mike Do you understand the "Steve" that Al 17 Baxley on the original email. You can take a 17 Bynum is referring to is you? 18 moment to read it. 18 I don't know if the "Steve" is me. 19 19 The question I have to ask you is: It's possible that it's me. 20 Isn't it true that in this email of yours dated 20 Do you know of any other Steve that 21 November 22nd that you are recommending that the 21 would have been involved in these discussions? 22 Bechtel report not be provided to the cooperative? 22 Well, Steve Pelcher is an attorney that 23 You're talking about what I'm saying? 23 works for Santee Cooper. So I don't know, though, 2.4 Q. 24 Correct. that this isn't me, but if it is me I certainly was 25 I don't view that as saying that at 25 not adamantly opposed. I think you can see from

			81 (Pages 321 to 324)
	321		323
1	the previous email that I was trying to offer a	1	testimony, you told the PSC that it would be a
2	solution. So I think Mr. Bynum was perhaps taking	2	significant challenge for the Consortium to meet
3	some liberties. When he said "they are" he didn't	3	the 1.15 performance factor; correct?
4	include me.	4	A. I told them it would be a significant
5	Q. What state do you currently reside in,	5	challenge to meet their performance factor. Their
6	Mr. Byrne?	6	performance factor, yes.
7	A. South Carolina.	7	Q. And the 1.15 performance factor, would
8	Q. Are you planning to be in this state in	8	that be the average performance factor over the
9	the month of November?	9	remainder of the project?
10	A. I'm not planning on moving, if that's	10	A. It would be the average from that point
11	what you're asking.	11	on.
12	Q. Are you planning any out-of-state	12	Q. And there were still four to five years
13	travel?	13	remaining at that point?
14	A. I may.	14	A. Correct.
15	Q. Do you have any plan right now?	15	Q. Could the performance factor change
16	A. I do.	16	over the four to five years especially when Unit 3
17	Q. What trips do you have planned?	17	was being built?
18	A. I have a trip to Scotland planned.	18	A. It was anticipated that the Unit 3
19	Q. What dates is that?	19	performance factor would significantly improve over
20	A. October 30th to November 13th.	20	the Unit 2 performance factor, and in fact the
21	Q. You already have plane tickets	21	information that the Consortium had presented to
22	purchased?	22	date and that the NND team had validated was that
23	A. I do.	23	the performance factor on Unit 3, even up to that
24	Q. And you're returning November 13th?	24	2015 time frame, was better than the performance
25	A. Uh-huh.	25	factor on Unit 2 and expected to improve even
	222		204
	322		324
1	Q. You would be available to testify	1	further.
2	Q. You would be available to testify before the Commission after your return?	2	further. Q. In 2015 was Mr. Ron Jones the head of
2	Q. You would be available to testify before the Commission after your return?A. I suppose I would. I would have to	2 3	further. Q. In 2015 was Mr. Ron Jones the head of NND?
2 3 4	 Q. You would be available to testify before the Commission after your return? A. I suppose I would. I would have to talk to my attorney about it. 	2 3 4	further. Q. In 2015 was Mr. Ron Jones the head of NND? A. He was.
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325 327 1 factor of 1.15 or below. Our experience with the 1 performance factor and a couple of other ratios 2 2 project to date makes us believe that it is highly that the Consortium was hoping to meet or that the 3 3 unlikely that Fluor and Westinghouse can bring the company thought was too high. 4 4 So there was a deduct from the payments productivity factor to 1.15 or lower measure 5 5 between January 1, 2016 and the end of the project. to the Consortium based on the performance factor. 6 6 This tells us that all other things being equal, O. Let's take a look at Exhibit 36, which 7 7 this express option is best for the company. is one of the documents that Mr. Cox showed you. 8 8 Do you see that? It's the email exchange with Mike Crosby that has 9 9 the graphs attached to it, the colored graphs. Do I see that. 10 Was that the testimony that you had 10 you remember that? 11 remembered giving when you were talking about 11 A. Yes. 12 12 "unlikely?" If you could turn your attention to O. 13 That's perhaps the case, and certainly 13 these graphs that are attached to Exhibit 36. Are we did use the 1.15 factor here. I think that this 14 14 these linear graphs? 15 15 really was the testimony I was getting at when I A. Are the graphs linear? 16 16 was being asked relative to what factors went into Q. Yes. 17 selection of the fixed price option. So there was 17 A. It would appear that the graphs are 18 an evaluation, but there were also some other 18 linear. 19 19 experience on the project, and this is what I was Is a linear graph the appropriate 20 methodology to measure efficiency in performance on 20 remembering. I want you to get Exhibit 34 before 21 a project like this? 2.1 you. That's the Power Point created by the EAC 22 22 No, not necessarily. You would expect 23 review team, and I want you to turn to the second 23 the highest amount of work to be done when the 24 page of the Power Point. Sorry. We should have 24 majority of the craft are on site. That's 25 25 put these in order for you. generally how the stat curves work with regard to 326 328 1 They were in order at one point in 1 resources. 2 2 time. This is my fault. 34. So if you looked in the '16, '17, '18 3 Okay. And if you go to the second page years, you would expect a lot of work to be taking 3 4 that has the heading "CB&I Direct Craft 4 place during those years. You would expect craft 5 hiring to be very high during those years. And in 5 Productivity." 6 the early phases of the project and in the latter 6 A. Okay. 7 The first bullet point says that CB&I 7 phases of the project you would expect the craft 8 projects the to-go PF will be 1.15. We all know 8 numbers would tail off, and the amount of work that 9 what that means. We talked about that a lot. would get done in those time periods would be much 9 10 Now, the second bullet point says that 10 lower. the EAC team recommends holding CB&I accountable to 11 And with respect to completion dates 11 O. 12 this PF on paying up to this level. Do you see 12 -- like if we look at this -- if we look at the 13 chart on percent complete direct craft work, this 13 that? 14 graph assumes that the performance factors and the 14 I do. A. 15 existing craft utilization will be constant, does 1.5 So the EAC team never recommended to 16 16 you or anyone in management that management accept it not? 17 17 the 1.4 productivity factor, did it? It does. It's strictly a linear 18 A. Not that I recall. And again, I 18 extrapolation from historical factors. 19 So it doesn't take into account the 19 believe that this to be a fairly early on EAC 20 fact that, for example, a night shift might be 20 evaluation and I believe that there were probably 21 added or additional resources might be brought to 21 many more iterations of evaluations before the 22 bear or that more efficiency might be gained in the 22 testimony was actually generated. But certainly 23 work force; correct? 23 this recommends not paying above the 1.15, and in 24 Right. And again, as I said, you could 24 fact since 2015 the company had put the Consortium 25 on notice that it would be holding them to the 1.15 25 increase the amount of work that gets done while

actually decreasing your productivity factor or PF. So the two don't necessarily follow together.

And I can also remember — and one of the reasons that Mr. Crosby sent this to me was to point out the fact — and that's what these three graphs on — I think it's the third page are intended to point out, is that field nonmanual to direct craft ratio really has a big impact and probably a bigger impact than you might think. So that might not be intuitively obvious that it has a much bigger impact than the direct craft productivity or a bigger impact on the direct and indirect craft ratio labor — labor ratio.

So this ratio, field nonmanual to direct, has a bigger overall impact. You can see that its impact was \$31 million, whereas the direct craft productivity was only \$11 million. So that really was — one of Michael's messages is maybe this is where we should be focused.

Q. I want to turn your attention to -- I'm not sure if it's a suggestion that the ORS is making, but it sure sounds like it, that there was some belief or concern at the time that SCE&G executed the October of 2015 amendment -- that there was some belief that Westinghouse might go

A. I'm not aware of that.

Q. Did you believe that Westinghouse was going to file for bankruptcy when the fixed price option was executed?

A. No. I don't know why a company like Westinghouse would put themselves in a position to put themselves into bankruptcy. So I certainly had no reason to believe — and I don't believe that Toshiba had any reason to believe that there was anything amiss. They certainly signed up for the entirety of the parental guarantee for the previous liability that both companies — now solely with Toshiba, but it's the same. So it's not split with somebody else. So I have no reason to believe that Westinghouse put themselves in bankruptcy.

And then going back to the things that the Westinghouse officials told us, that they've never walked away from a project, that they understood that they were going to lose money in this project and that they really were in the U.S. game to make a bigger play worldwide and that they couldn't succeed worldwide without succeeding at V.S. Summer.

Q. I want to clear up what I think might have been a misstatement in your testimony when Mr.

bankrupt.

Did you -- at the time that the owners the executed the October 2015 amendment believe that Westinghouse would go bankrupt?

A. I did not have any reason to believe that Westinghouse would go bankrupt.

Q. Did you ever hear anyone at SCE&G or Santee Cooper at or around the time of the October 2015 amendment suggest that Westinghouse might file for bankruptcy rather than perform under the agreement?

A. I don't -- I don't recall those discussions. I can tell you that there was not a sense at SCE&G that anything was amiss with Westinghouse or that any bankruptcy was imminent.

I can't necessarily speak for Santee Cooper, but there were questions coming from things like analysts and other people. So contingency planning around that seemed to be proven.

Q. In 2016 when the owners executed the fixed price option was there any concern at the time that you're aware of at SCE&G that Westinghouse might file for bankruptcy and reject the contract as opposed to continuing to perform under the fixed price option?

Cox was examining you.

I would like for you to get in front of you Exhibit 38 and I would also like for you to get in front of you Exhibit 24. Okay. Do you have Exhibit 24 and Exhibit 38 in front of you?

A. I do.

Q. Do you realize that these are two different reports?

A. No, I did not realize that.

Q. So let's start with Exhibit 24, which is the Project Assessment Report dated February 5th, 2016.

A. Okay.

Q. Have you seen this report before, the Project Assessment Report?

A. This appears to be the Project Assessment Report that Bechtel gave to the Atlanta attorney that was at some point later forwarded to me.

Q. Now I want you to look carefully at Exhibit 38, which is a Schedule Assessment Report.

A. Okay

Q. Have you -- did you at or about the time, February 5th, 2016, see the Schedule Assessment Report that's marked as Exhibit 38?

			01(1	ages 3		550)
	333					335
1	A No Laid not	1	INDEV			
1 2	A. No, I did not.Q. So when you testified in response to	1 2	INDEX			
3	Q. So when you testified in response to questions that Mr. Cox asked you about Exhibit 38	3	Daga I	ine		
4	you were under the mistaken impression that Exhibit	4	Page I	lile		
5	38, the Schedule Assessment Report, was in fact the	5	STEPHEN A. BYRNE	7	9	
6	Project Assessment Report dated the same day?	6	EXAMINATION	7	11	
7	A. That's correct.	7	BY MR. BALSER	/	11	
8	MR. BALSER: That's all I have.	8	EXAMINATION	192	5	
9	THE DIEDER. THAT'S AIT I HAVE.	9	BY MR. COX	1/2	3	
10	EXAMINATION	10	EXAMINATION	322	17	
11	BY MR. COX:	11	BY MR. BALSER	322	1,	
12	Q. Mr. Byrne, I just wanted to follow up	12	EXAMINATION	333	9	
13	on that last question.	13	BY MR. COX			
14	This Exhibit 38, the Schedule	14	CERTIFICATE OF REPORT	ΓER	334	1
15	Assessment Report, when did you first see it?	15				
16	A. I don't know that I've ever seen it.	16				
17	MR. COX: No further questions.	17	EXHIBITS			
18	THE VIDEOTAPE SPECIALIST: This	18				
19	concludes the video deposition of Steve Byrne for	19	Page I	Line		
20	today, October 23, 2018. The time is approximately	20	(DFT. EXH. 9, Combined	11	24	
21	6:42 p.m. We are now off the record.	21	Application For Certificate o			
22	(Deposition concluded at 6:42 p.m.)	22	Environmental Compatibility	' ,		
23	(Signaure Waived.)	23	Public Convenience and			
24		24	Necessity and For A Base Lo	ad		
25		25	Review Order			
		I				
	334					336
1	334 CERTIFICATE OF REPORTER	1	(DFT. EXH. 10, Engineering	, 18	2	336
2	CERTIFICATE OF REPORTER	2	(DFT. EXH. 10, Engineering Procurement and Construction		2	336
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I, Patricia L. Thompson, Registered Professional Reporter and Notary Public for the State of South Carolina at Large, do hereby certify that the foregoing transcript is a true, accurate and complete record. I further certify that I am neither related to nor counsel for any party to the cause pending or interested in the events thereof. Witness my hand, I have hereunto affixed by official seal this 30th day of October 2018 at Charleston, Charleston County, South Carolina.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Procurement and Construction Agreement (DFT. EXH. 11, copy of letter 5/6/14, to P. Asherman and E. Roderick from L. Carter and Marsh (DFT. EXH. 12, copy of letter 9/25/14 to J. Lyash from S. Byrne (DFT. EXH. 13, email chain with attachments (DFT. EXH. 14, Petition For Updates and Revisions to the Capital Cost Schedule and the Construction Schedule (DFT. EXH. 15, copy of Direct Testimony of Stephen A. Byrung (DFT. EXH. 16, one-page)	er, 36 D. K. er, 53 66 71 ee ect 79 me 96	2315242	336
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