1	STATE OF SOUTH C. COUNTY OF HAMPTO		IN THE COURT OF COMMON PLEAS
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3	RICHARD LIGHTSEY CLECKLEY, PHILLI		:
4		F OF THEMSELVES	
5	SITUATED,		· 2017-CF-25-555
б	Plai	ntiffs,	· : CONFIDENTIAL : TRANSCRIPT
7	vs.		:
8	SOUTH CAROLINA E COMPANY, A WHOLL		• • •
9	SUBSIDIARY OF SC.	ANA, SCANA	•
10	CORPORATION, AND SOUTH CAROLINA,	THE STATE OF	•
11	Def	endants,	:
12	SOUTH CAROLINA O		:
13	REGULATORY STAFF	1	:
14	Int	ervenor.	:
15	(Case Caption Co	ntinues on Page 2	2)
16	VIDEOTAPED	DEPOSITION OF DAN	IIEL MAGNARELLI
17	DATE TAKEN:	Friday, October	12, 2018
18	TIME BEGAN:	9:04 a.m.	
19	TIME ENDED:	12:08 p.m.	
20	LOCATION:	Pietragallo, Gor	don Alfano
21		Bosick & Raspant One Oxford Centr	i, LLP
22		Pittsburgh, Penn	
23	REPORTED BY:	Cynthia First, R	PR, CRR, CCP
24		EveryWord, Inc. P.O. Box 1459	a 1
25		Columbia, South 803-212-0012	Carolina 29202

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1	(Case Ca	aption Continued)
2		THE DIDITA CEDUTAE COMMISSION
3	DOGUDE	THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA
4	DOCKET	NOS. 2017-207-E, 2017-305-E, AND 2017-370-E
5	IN RE:	Friends of the Earth and Sierra Club, Complainant/Petitioner vs. South Carolina
6		Electric & Gas Company, Defendant/Respondent
7		
8	IN RE:	Request of the South Carolina Office of Requlatory Staff for Rate Relief to SCE&G
9		Rates Pursuant to S.C. Code Ann. § 58-27-920
10	IN RE:	Joint Application and Petition of South
11		Carolina Electric & Gas Company and Dominion Energy, Incorporated for Review
12		and Approval of a Proposed Business Combination between SCANA Corporation and
13		Dominion Energy, Incorporated, as May Be Required, and for a Prudency Determination
14		Regarding the Abandonment of the V.C. Summer Units 2 & 3 Project and Associated Customer
15		Benefits and Cost Recovery Plans
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24	ALSO PRESENT:
25	ELIZABETH GREEN, Videographer

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3	EXAMINATION			
4	By Mr. Cox		8, 13	3
5	By Mr. Evans		8	88
6	By Mr. Keel		10)6
7	Signature of Deponent	:	13	6
8	Certificate of Report	er	13	37
9	Certificate of Notary	Public	13	8
10	MAGNARELLI EXHIBITS D	DESCRIPTION	MARKE]D
11		Construction & Site	10)6
12	Mgmt. Work St SCANA_RP27425			
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14	Order Approvi Agreements	.05(a) For Entry of an .ng Interim Assessment	t	
15	Agreements			
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Daniel Magnarelli THE VIDEOGRAPHER: My name is Elizabeth Green, representing EveryWord, Inc. The date today is October 12, 2018, and the time is approximately 9:04 a.m. This deposition is being held in the office of Pietragallo, Gordon, Alfano, Bosick & Raspanti, LLP, located at One Oxford Centre, 38th Floor, Pittsburgh, Pennsylvania 15219. The case caption is as follows: In the Court of Common Pleas for the State of South Carolina, County of Hampton, Case Number 2017-CP-25-335, Richard Lightsey, LeBrian Cleckley, Phillip Cooper, et al., on behalf of themselves and all others similarly situated, Plaintiffs, versus South Carolina Electric & Gas Company, a wholly owned subsidiary of SCANA, SCANA Corporation, and the

19The name of the witness is Dan Magnarelli.20At this time will all attorneys please identify21themselves and the parties they represent,22after which our court reporter, Cynthia First,23of EveryWord, Inc., will swear in the witness24and we can proceed.

State of South Carolina, Defendants.

MR. COX: Jim Cox appearing on behalf of

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1	the South Carolina Office of Regulatory Staff.
2	MR. EVANS: Jerry Evans on behalf of the
3	Plaintiff ratepayers.
4	MR. PUMPHREY: Brian Pumphrey, McGuire
5	Woods, LLP, on behalf of Dominion Energy, Inc.
6	MR. BELL: Kevin Bell on behalf of Central
7	Electric Power Cooperative.
8	MS. NEWTON: Emily Newton,
9	King & Spalding, on behalf of SCANA and SCE&G.
10	MR. KEEL: Brandon Keel, King & Spalding,
11	on behalf of SCANA and SCE&G.
12	MR. MURA: Dave Mura, Westinghouse
13	Electric Company, LLC.
14	MR. RYAN: Thomas Ryan from the Law Firm
15	of K&L Gates, representing Westinghouse
16	Electric Company, LLC.
17	MR. SCHALK: Michael Schalk from the Law
18	Firm of K&L Gates, representing Westinghouse.
19	MR. COX: I think we're ready for the
20	telephone appearances.
21	MS. MOODY: Leah Moody, on behalf of SCANA
22	and SCE&G.
23	MR. NELSON: Jeff Nelson on behalf of the
24	Office of Regulatory Staff.
25	MS. HODGES: Bryony Hodges, in-house

1 counsel for SCANA and SCE&G. 2 MR. COX: I think we're ready to swear in 3 the witness. Thank you. 4 THE NOTARY PUBLIC: Please raise your 5 right hand to be sworn. Do you solemnly swear 6 the testimony you are about to give shall be 7 the truth, the whole truth, and nothing but the 8 truth, so help you God? 9 MR. MAGNARELLI: I do. 10 11 DANIEL MAGNARELLI, being first duly 12 sworn, testified as follows: 13 14 EXAMINATION 15 16 BY MR. COX: 17 0 Good morning, Mr. Magnarelli. 18 Α Good morning. 19 Could you, for the record, state your full 0 20 name and spell out your last name? 21 It's Daniel Lawrence Magnarelli. Α Yeah. 22 And Magnarelli is spelled M-A-G-N-A-R-E-L-L-I. 23 Mr. Magnarelli, we met just before your Ο 24 deposition began. And my name, again, is Jim Cox. 25 I represent the Office of Regulatory Staff in South

1	Carolina in a couple of different proceedings. One
2	is a state court action involving claims asserted by
3	customers of SCE&G against SCE&G and SCANA.
4	The other action in which I represent the
5	Office of Regulatory Staff is a proceeding before
б	the South Carolina Public Service Commission in
7	which SCE&G is seeking recovery of costs in
8	connection with the V.C. Summer Units 2 and 3
9	project.
10	We've noticed your deposition to occur in
11	all of these proceedings. And before we get into
12	your deposition, I'd like to just go over the
13	procedure of how a deposition works.
14	Have you ever had your deposition taken
15	before?
16	A No.
17	Q You just took an oath. And that's the
18	same oath that would apply that you would take and
19	that would apply if we were in a courtroom, and it
20	carries the same weight and penalty of perjury.
21	Do you understand that?
22	A Yes.
23	Q I'll be asking you questions today, and so
24	will other attorneys that represent parties in the
25	proceedings. If at any point you don't understand a

	Daniel Magnatem
1	question I ask, I can try to improve it with your
2	help. However, I won't know if you don't understand
3	a question if you don't let me know.
4	So I would ask you, if you're confused
5	about a question or don't believe you understand it,
6	if you would let me know, I'll try to work to
7	improve it.
8	Will you do that?
9	A Yes.
10	Q We can take breaks when you need. As you
11	probably know, we're not planning to be here for the
12	full day, but we can take a break whenever you need
13	one. Again, we won't know you need a break unless
14	you let us know.
15	But if, for some reason, you become
16	distracted or you need to, for some reason, take a
17	short break, let us know and we'll take a break.
18	Will you do that?
19	A Sure.
20	Q I'll be asking you about conversations
21	that you had with some of your co-workers on the
22	project and other individuals. When I ask about
23	conversations, I'm not interested in any
24	conversations that you had with any attorneys that
25	represent Westinghouse, and I don't need you to tell
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1 me about those. If, for some reason, I ask a question that 2 3 you feel may call for that kind of information -and I wouldn't intentionally do it, but I may 4 5 inadvertently do it -- just let me know, and I can 6 move on from that question. 7 Did you look at any documents to prepare 8 for your deposition today? 9 Α We had looked at whatever the documents 10 were that came in that notebook. There were 11 probably five or six exhibits. So that's what I 12 looked at yesterday. 13 Can you describe what those documents are? 0 It was mainly the documentation that we 14 Α 15 supplied to the clients every month while we were, 16 you know, just basically constructing the project. 17 So it would be things like the plan of the day 18 meeting and the slide deck for that; it would be the 19 project review meeting that was held once a month 20 for the client's benefit, and things like that 21 where, you know, it's essentially just the reports 22 that we had put out for the clients on either a 23 daily, weekly, or monthly basis. 24 And when you say "the clients," are you 0 25 referring to SCE&G?

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1	A Yes, SCE&G.
2	Q Would you also include Santee Cooper as a
3	client?
4	A Sure, sure; but, you know, I think the way
5	it was termed to me was that SCE&G was Santee
6	Cooper's agent. So so when SCE&G spoke to us,
7	they were in fact representing both SCE&G and Santee
8	Cooper.
9	Q And who gave you that understanding?
10	A That was kind of the understanding. We
11	had direction from SCANA that way. We had direction
12	from our own people at Westinghouse.
13	Q Which people at Westinghouse?
14	A It would have been the project director.
15	Q And who was that?
16	A Well, it varied from time to time. So
17	there was a number of project directors in my tenure
18	there, but the first one was only there a month, and
19	he passed away. So we had several.
20	Q And who was that project director that
21	passed away?
22	A That was Tom Sliva.
23	Q What time period was he the project
24	manager?
25	A Project director. He was he was in

1	I don't know when Tom started, but I know his
2	passing date was, like, April of 2013.
3	Q And when did you get on the project?
4	A March of 2013.
5	Q Just so we're clear, when I say "the
6	project," I'm referring to the V.C. Summer Units 2
7	and 3 project. Is that the understanding you have,
8	as well?
9	A Yes.
10	Q Who became the project director after
11	Mr. Sliva?
12	A There was a couple of interim ones. So,
13	like, Bill Macecevic was, like, an intern project
14	director. Rick Easterling served in that role for a
15	little while. Then we had a new project director
16	come in, who I believe was Chris Levesque came in
17	after after Tom Sliva passed. So more of a
18	permanent project director rather than an interim.
19	Q So did Macecevic and Easterling come in
20	between Sliva and Levesque?
21	A Right.
22	Q And do you know do you recall when
23	Mr. Levesque became the project manager?
24	A I do not. I'm not sure of the date.
25	Q And who succeeded, came after

1 Mr. Levesque? MR. NELSON: We cannot hear the witness' 2 3 answers. 4 THE WITNESS: I can speak up. 5 MR. RYAN: You should have a mic. 6 THE WITNESS: It's right here. I don't know if --7 8 THE VIDEOGRAPHER: I think it's the... 9 MR. NELSON: We can hear the questions but 10 not the answers. 11 THE WITNESS: Okay. 12 BY MR. COX: 13 So, Mr. Magnarelli, who succeeded 0 14 Mr. Levesque as project director? 15 I'm not -- I don't recall if there was one Α 16 in between, but Carl Churchman was the last project 17 director before the shutdown. 18 Do you recall about when he began as 0 19 project director? 20 Α I don't have the date for that. 21 Did you report directly to the project 0 22 director --23 Α Yes. 24 -- during your time on the project? 0 25 I did. А

Q And what was your duty position on the project?

3 А So my title was Director, Construction Integration for Westinghouse. And in that role, it 4 5 was essentially to install the major equipment. So 6 it started out as just being technical assistance to 7 the installation of the equipment, and actually 8 rolled over to actually managing the installation 9 when Westinghouse had taken over.

10 So all the primary equipment, reactor 11 vessels, steam generators, pressurizer, reactor 12 cooling piping, that would have fallen under my 13 group for installation. In addition to that, there 14 was other major equipment that Westinghouse was 15 responsible for, like the turbine generator set from 16 Toshiba. So we were on that end too. So we were 17 responsible for the machine set on the turbine 18 generator.

Q Can you go back to that point you made about your responsibilities changing at some point? Can you go into a little more detail on how your role changed?

A Yeah. When it was originally set up, the consortium basically had -- well, it was Shaw, and then they went to CB&I, but they were the

Daniel Magnarelli

1	constructor. So Westinghouse would offer the
2	technical guidance, and the constructor would do the
3	installation. That changed for a lot of reasons,
4	but the main reason was they just weren't producing;
5	productivity was extremely poor.
6	So Westinghouse decided to really take on
7	that role themselves. And when we did, I think
8	things increased. Productivity was better. It
9	eliminated a lot of commercial issues between the
10	two companies. So it was a much better better
11	road for the project overall.
12	Q Did Westinghouse, at that change, begin to
13	actually do the installation of the equipment?
14	A Yes. So Westinghouse affiliates so we
15	hired, like, Carolina Energy Services to do the
16	installation of the primary equipment. And we had
17	subcontractors through them, like Barnhart Rigging,
18	for specialty rigging.
19	So and then there were other
20	Westinghouse affiliates, like Turbine Pro, that
21	would have done the installation of the turbine
22	generator set. So we had several Westinghouse
23	affiliates that were actually working for us,
24	Westinghouse, to go do that scope of work.
25	Q Was this a change that occurred at the

	Daniel Magnarelli
1	time of the October 2015 amendment to the EPC
2	contract?
3	A Yeah, that was the primary driver then,
4	yes.
5	Q At the time of that change, what did
6	Fluor's role become on the project?
7	A Fluor Fluor took the role of the
8	constructor. So they picked up anything that was
9	left behind through the Shaw/CB&I combination.
10	Fluor essentially picked up that role.
11	Q Let me go into that a little more then.
12	If Fluor took the role of Shaw and CB&I, then what
13	was the role of the Westinghouse affiliates in
14	conjunction?
15	A Yeah. So so we gave Fluor took the
16	role of Shaw/CB&I, but they didn't take everything.
17	So that primary equipment installation, we held that
18	back simply because we had the folks that really
19	knew how the primary equipment was being installed,
20	and they had much more to offer.
21	We had a number of people who had kind of
22	managed that when they were in China for the first
23	AP1000 plants. And those folks were in our group
24	over here in the U.S. to oversee that work.
25	Q So I'd like to now turn to your background

1	a bit before we talk more about the project.
2	Before you took on your role at the
3	project, can you walk us back through your career at
4	the different positions that you held?
5	A How far back? I could start in 1979 when
6	I actually got out of college. My first job out of
7	college, from an engineering standpoint, was with
8	Stone & Webster in Boston. So I'd grown up in
9	Boston; Stone & Webster was the logical choice.
10	And then I went to the field for
11	Stone & Webster down in North Anna, and then
12	Millstone III, in new construction.
13	And then I wanted a little more stability,
14	so I joined Yankee Atomic. And we had four
15	operating plants and one plant under construction.
16	That was Seabrook. So so I did that for quite a
17	while.
18	And then we were sold to Duke
19	Engineering & Services. And then we were sold again
20	to AREVA well, Framatome at the time, but AREVA.
21	So then I ended up working for AREVA, and under
22	for my position in AREVA, it was essentially Vice
23	President, Construction and Commissioning for U.S.
24	Q And did you go from that position to
25	Westinghouse?

1	A Yes.
2	Q And that was in March 2013?
3	A Correct.
4	Q The work that you were doing for AREVA,
5	was it the same type of work you did on the project?
6	A At the end, yeah. It was essentially
7	trying to market the AREVA plant, new plant, which
8	is an EPR 1,600-megawatt reactor. Unfortunately,
9	it's not it's really not suitable for sale in the
10	U.S., you know, logically and like that. So so
11	we never did sell one here.
12	So when I wanted to pursue my career
13	further and actually build another new plant,
14	Westinghouse was really the only option in the
15	United States.
16	Q Who hired you?
17	A Tom Sliva.
18	Q And did he tell you anything about the
19	reasons he was hiring you to work on the project?
20	A We had worked together at AREVA, so we
21	kind of knew of each other. And it was mainly for
22	the planning work that we had done for the AREVA EPR
23	that he wanted to bring that same type of effort
24	onboard for the Westinghouse AP1000.
25	So one other function that we did serve

	Daniel Wagnatem
1	while we were there at the AP1000 was that I also
2	had a group that was responsible for construction
3	planning. So it was about a hundred-person group
4	that essentially prepped the work packages and did
5	the lookaheads for construction planning.
6	That was taken with some well, let's
7	just say that the full effects of that group were
8	never really the benefits really weren't fully
9	realized. But anyways, they did do quite a bit to
10	streamline the processes.
11	Q Was that a change when you came to the
12	project?
13	A Yes, yes. That's why Tom one of the
14	reasons Tom hired me.
15	Q So was your position a new position at the
16	project?
17	A Yes.
18	Q Did Tom tell you that he was unhappy with
19	the progress that was being made on construction at
20	the project?
21	A He had concerns, yes.
22	Q Did he describe to you what his concerns
23	were about?
24	A Well, he described a lot of things, but
25	but I think it was just the overall approach to the
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1 project. The consortium -- for whatever reason, the 2 contract structure was such that you had divergent 3 goals, I think. You know, the constructor was 4 looking in terms of maximizing profit. The 5 Westinghouse company was looking at, you know, the 6 technological breakthrough to get an AP1000 on line. 7 So I think the goals might have been a little 8 divergent.

9 There were a lot of commercial issues 10 between the two companies. So he thought that by 11 really offering a streamlined approach to the 12 planning, that maybe we could bring both groups 13 together and, you know, improve productivity.

Q Did he describe any concerns with the oversight that the clients were -- SCE&G were exercising over the project when you were hired?

17 No, there wasn't really any mention of Α 18 SCE&G, as far as, you know, burdensome or anything 19 like that for oversight of the project. I think 20 SCE&G's manpower situation, from a construction 21 standpoint, I'm not sure of the numbers they had, 22 but it was a pretty small group for a project that 23 size.

Q Did you feel, in your time at the project, that the group that SCE&G provided for oversight was

	-
1	insufficient for to manage a project of that
2	size?
3	A I can't say that, no. In my mind, SCE&G
4	did what they had to do to manage the project. I
5	can't really speak to the SCE&G side.
6	Q Okay. I think you mentioned that the
7	group that Tom Sliva set up under your control, that
8	it never achieved the impact that you and Tom were
9	hoping; is that correct?
10	A True.
11	MR. SCHALK: Object to form.
12	THE WITNESS: True.
13	BY MR. COX:
14	Q Can you describe why that was?
15	A Well, there were reasons associated with
16	it. The first was trying to get the constructor to
17	actually buy into the process. And, you know, since
18	we were still on both sides of the fence then where,
19	you know, it wasn't under total Westinghouse
20	control it was like I said before, we had
21	divergent goals, so the constructor was basically
22	saying, "Hey, we know how to construct things.
23	We're going to handle that. You know, you can't
24	tell us what we should or should not be doing."
25	And in fact, you know, some of that's

1	true, but for the most part, we needed to come
2	together a little better to be unified as a team
3	going forward. Otherwise, we were going to have the
4	same issues down the road.
5	Q And what why didn't that group that was
6	set up to help address those issues, why do you feel
7	it didn't achieve the impact that it that it
8	would have liked to have had?
9	A I think it was the commercial issues that
10	got between the two companies. But once it came
11	under Westinghouse control, then then I think you
12	saw better results and improvements in productivity.
13	Q Did you have any role in preparing the
14	estimates to complete the project, both with respect
15	to schedule or to cost?
16	A Well, it would be the ETC was actually
17	done out of Charlotte. So so there was a group
18	there that was set up just to perform that function.
19	We as a project provided input to that ETC group,
20	but, I mean, we were not the primary players in the
21	development of the ETC.
22	Q Who were the players, to your knowledge,
23	who were involved in that?
24	A It would have been the Charlotte office;
25	it would have been the cost estimating group out of

Daniel Magnarelli

1	Charlotte. They would have relied on, you know,
2	basically the people working at the site, as well as
3	from a schedule standpoint, they would have relied
4	heavily on the scheduling group at V.C. Summer.
5	Q And who was in that scheduling group?
6	A I believe Terry Elam was actually the head
7	of the scheduling group.
8	Q Do you know who at the project from
9	Westinghouse played a key role in the cost estimate
10	process, if anyone?
11	A The cost estimating people?
12	Q Right.
13	A Well, I'm not sure that, you know, the
14	names. It would have been the project management
15	group out of Charlotte, and then it would have been
16	the cost estimating group out of Charlotte. Those
17	would have been the players. Okay.
18	And in there, there's there's a
19	multitude of names. So I'm not sure that one person
20	would be the name. We had people who were
21	theoretically in charge of the ETC that have since
22	left the company; and that would have been like a
23	Karin Stoner would have left the company.
24	Q And when you say "Charlotte," you're
25	referring to the Stone & Webster office in
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1 Charlotte? 2 It's the Westinghouse WECTEC office now in А 3 Charlotte. 4 Ο And before the 2015 amendment to the EPC, 5 was that office staffed by --6 Α Yeah, it's pretty much --7 -- Stone & Webster? 0 8 -- Stone & Webster, yeah. Α 9 Is there anyone at the project who you 0 10 felt, from Westinghouse, played the same role that 11 Mr. Elam did on schedule, but did it with cost? 12 MR. SCHALK: Object to form. 13 Go ahead. 14 THE WITNESS: For cost? 15 BY MR. COX: 16 Cost estimating. 0 17 Α There were -- there were a lot of people 18 that provided input, so I -- to give you one name, 19 The only -- the only name that really comes up no. 20 is probably Joe Arostequi that would have been at 21 the site that was providing some cost control input. 22 And he would have been providing that 0 23 information to -- was it Karin in -- in Charlotte? 24 Uh-huh, Karin Stoner's group, whoever she Α 25 had working for her.

1	Q And what information did you provide to
2	Terry Elam's group or Joe Arostegui's group to
3	assist in these estimates?
4	A So it would have been the estimate of what
5	it was going to take to finish the job from the
6	standpoint of my group. So that was kind of the
7	estimate we provided.
8	And then we would have in our constant
9	schedule reviews I mean, we had a multitude of
10	schedule reviews to lay the baseline out. We would
11	have had input into that, as well, from our group.
12	Q And you provided this information to
13	Mr. Elam and to Mr. Arostegui?
14	A Uh-huh. Yes. Actually, it went it
15	went directly to Charlotte, so it would have gone to
16	somebody in Karin Stoner's group.
17	Q What kind of format did you provide this
18	information?
19	A It was a it was kind of a template
20	shell that was provided to us to basically fill out
21	so they could have the same format for all the
22	groups. We weren't the only group supplying an
23	estimate obviously. And that template, we filled it
24	out, sent it back up to Charlotte for what they
25	asked for.

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1	Q Was that an Excel spreadsheet?
2	A It was it was an Excel spreadsheet to
3	some extent, and then it was some narrative and
4	text, as well, to describe the scope.
5	Q Did you ever work on the Primavera
6	scheduling software that Westinghouse used?
7	A No. I reviewed it, but I never I'm not
8	a box runner, if that's what you mean.
9	Q When you say you reviewed it, what was
10	your role in looking at that?
11	A Well, it would have been for anything that
12	we were responsible for. We would have looked to
13	make sure that that schedule was sound, that that's
14	exactly how we were going to approach the project.
15	But in addition to that, we would have
16	looked at the prerequisites in that schedule for us
17	to do our work. So say say we're trying to
18	install the pressurizer, but we need the floor of
19	the pressurizer cubicle to board before we can
20	install the pressurizer. You know, we would have
21	been looking at all those prerequisites to make sure
22	that none of those were going to hold us up from
23	what we had to do.
24	So we would go through that. We would be
25	reviewing the schedule for those items. And then if

1	there was obstacles or barriers from these
2	prerequisites in getting the work done, you know, we
3	would try and alleviate those and do something that
4	would minimize those impacts.
5	Q Would that be like a mitigation effort?
6	A There were yes, there were mitigation
7	efforts, yes.
8	Q Okay. What information would you use to
9	estimate the time periods for being able to take
10	those steps, say, in installing a pressurized
11	reactor?
12	A I'm not sure what you're asking. What are
13	you saying?
14	Q Sure. How would you come up with the
15	estimate on how long something would take?
16	A Oh, the duration of the actual
17	installation?
18	Q Right.
19	A Right. So we would use our affiliates,
20	the people that were actually going to do the work,
21	and we would sit down with them and walk through
22	each step of the process that they had to do to
23	install it, and then the follow-through on it. And
24	we would look at those durations that they would
25	supply us, our affiliates, and we would work through
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1	those details and see if we agreed or didn't
2	disagree or disagreed with those.
3	So it was kind of a working together to
4	make sure that we had the right schedule going
5	forward.
6	Q In general, were there times when the
7	information provided to you by the contractors that
8	you worked with was incorrect, too optimistic?
9	MR. SCHALK: Form.
10	THE WITNESS: The I really can't say
11	that they're too optimistic, because at the
12	time those schedules were developed and
13	reviewed, and at the time those schedules were
14	felt to be the schedule going forward. So I
15	can't really conjecture that they were too
16	optimistic, no.
17	I think, in the long run, we had a lot of
18	productivity issues at the site. So if you
19	could just see where the plan was to get these
20	plants on line and where it was when we ended
21	up shutting down, I mean, we weren't very close
22	to that plan.
23	BY MR. COX:
24	Q To what do you ascribe to what do you
25	ascribe the causes of not hitting the productivity

1	that you wanted to reach?
2	A Well, I think I think the civil work
3	was underestimated, so we had a lot of issues with
4	civil work. And that should have been probably
5	dealt with early on, but, you know, we had issues
6	with, say, some late engineering. We had civil
7	work, just the constructor itself, on the way the
8	constructor was doing business. So there were just
9	a multitude of issues that really slowed the project
10	down.
11	Q Were there issues with fabrication of
12	modules?
13	A Yes, there were issues with fabrication of
14	modules.
15	Q Can you describe what the issues were
16	there that affected productivity?
17	MR. SCHALK: Form.
18	THE WITNESS: Well, I can't I can't
19	talk about the productivity at the fabrication
20	sites, but I can tell you that, you know, the
21	module dates kept slipping.
22	So so, you know, there's a reliance on
23	some of those modules to be prerequisites in
24	order for the rest of the building to be built.
25	So those module dates kept sliding to the

1	right. The project was getting delayed due to
2	those module suppliers not keeping up with
3	demand.
4	BY MR. COX:
5	Q Do you feel that SCE&G contributed in any
б	way to the productivity problems at the site?
7	A SCE&G contributing to productivity issues?
8	Q Right. To describe it further, do you
9	feel that there were steps that SCE&G could have
10	taken that could have addressed it, the productivity
11	issues, but they didn't take?
12	MR. SCHALK: Form.
13	THE WITNESS: I I can't speak for
14	SCE&G, no.
15	BY MR. COX:
16	Q And why do you feel you can't speak to
17	that?
18	A Well, I know there were some issues. I
19	know there were commercial issues, as well. But I
20	can't I can't speak to why SCE&G did what they
21	did, so
22	Q Did you interact with anyone from SCE&G
23	during your time on the project?
24	A Yes.
25	Q Who did you interact with from SCE&G?

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1	A There were a number of people, but it
2	would have been the site management group. So you
3	would have had the site VP, Ron Jones; you would
4	have had the construction manager, Alan Torres; the
5	licensing manager, April Rice; the engineering
6	manager, Brad Stokes. So it just goes on. So it's
7	all essentially the senior management team from
8	SCANA on-site.
9	Q And what was the nature of your
10	interactions? What were you interacting with them
11	for?
12	A It was kind of a management-to-management
13	type arrangement where we would give status. They
14	would need some things from us, as far as for their
15	informational purposes. We would provide that.
16	But but what we did is we met with
17	those folks on a daily, weekly, and monthly basis
18	just to essentially provide the information that
19	they needed to know what the status of the project
20	was at any given point in time.
21	Q Did you have any discussions with SCE&G
22	about steps to improve productivity?
23	A We had the discussions and
24	recommendations. We went through a scheduling
25	workshop in August of 2014 with some SCE&G folks up

on-site. And then in November of 2015, before the transition to Westinghouse in January of 2016, we went through an effort of laying out the schedule again.

We did have some presence from both owners. Southern Nuclear had provided a representative, and SCANA actually provided a representative for those meetings.

9 Q Let's talk about the August 2014 workshop.
10 Can you describe what occurred during that workshop?

A Yes. So we had a schedule. We had some constraints in the schedule. We had a number of major issues that, you know, were identified as risk items.

So we had a team from the project, and we had representatives from SCANA that sat in there and tried to work through and develop mitigation strategies for the constraints that were in that schedule.

20 So that was originally supposed to be a 21 two-week effort, but I believe it carried on even 22 further after that. My recollection is a little 23 fuzzy, but I believe it carried on with the smaller 24 group after that to develop those mitigation 25 strategies even further. 1 When you say "constraint," what do you 0 2 mean?

3 А So when you have a schedule, you might put 4 in a date like, okay, delivery of module CA20 or 5 something like that. Right? And you just nail that 6 date in the schedule and you hold it so it can't 7 move.

But when that module is late, that means 8 9 that date is going to shift to the right. But 10 before that date happens, you're still holding that 11 date, so the schedule doesn't really push out to the 12 right. And what you try and do is develop 13 mitigation strategies so that they won't move.

So in the case of, say, CA20, we installed 14 15 half of it in Unit 3, and then brought the other 16 half in later just so you can keep working on the 17 containment structure.

18 So the constraint is an effort to keep a 0 19 certain date in the schedule from moving to the 20 right?

Uh-huh. Α

21

22 And the goal is to come up with strategies Ο 23 that will allow that date not to slip to the right? 24 Α Correct. 25 In August of 2014, did you feel that the

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1	work that the team put together was effective at
2	coming up with mitigation strategies?
3	A It was. I think that that was the first
4	cut at really trying to get into detail on the
5	strategies. So I think it was it was a good
6	effort, I think, for for what was being
7	considered at the time.
8	What we did after that, in the November
9	time frame of 2015, was essentially carry that even
10	further where there was a lot more detail provided
11	to identify those mitigation strategies. And those
12	then were tracked.
13	And this was all being captured in the
14	schedule, and it was being captured in the risk
15	program that we shared with the owner on a monthly
16	basis.
17	Q Is there a reason the August 2014 workshop
18	wasn't able to get as detailed as the one in
19	November 2015?
20	A Well, it was it was detailed up to the
21	point for the information that was known, but there
22	was still a lot of unknowns in August of 2014.
23	So so we needed to get a little more detail.
24	And then in November of 2015, a lot of
25	things were known that weren't known prior to that.
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1	So we were able to come up with a better approach to
2	things and better mitigation strategies.
3	Q What was known in November 2015 that
4	allowed you to come up with better strategies?
5	A A lot of the module issues were kind of
6	brought out in 2015. So in 2014, there were a lot
7	of uncertainties. There was commercial negotiations
8	with module suppliers that still had to be done. In
9	2015, there was a clearer picture of where that
10	where all that stood.
11	Q And why was there a clearer picture?
12	A Because they were talking to resolve the
13	commercial issues with the suppliers.
14	Q So you're talking there about Westinghouse
15	taking over the role of one of the contractors?
16	A Uh-huh.
17	Q Is that correct? Yes?
18	A Right.
19	Q Who were you providing information to for
20	that August 2014 scheduling workshop?
21	A That basically went into the schedule.
22	Okay. So it was development of the project
23	schedule. And then it also went into our risk
24	register, where those mitigation strategies are
25	tracked in the risk register to see if there were

1	any issues or if there were any obstacles to
2	accomplishing the mitigation plan.
3	Q And who from Westinghouse would you
4	provide this information to?
5	A So so the scheduling piece, obviously,
6	would have gone to Terry Elam, you know, for the
7	scheduling group. But the risk piece originally
8	went to me. But then we had the project controls
9	group manage that risk piece, as well. So that
10	would have gone to a person like Lisa Cazalet.
11	Q And when you say "the risk piece," are you
12	referring to the likelihood that a mitigation
13	strategy would not be effective?
14	A Yes. So you had a risk register that
15	showed what your primary risks were for the project,
16	and then the likelihood that those risks would be
17	eliminated. So you tracked those risks and made
18	sure those mitigation strategies were working. And
19	as you passed that risk period where, you know, the
20	actual risks never materialized, you know, you would
21	essentially remove that from the risk register.
22	If there was some issue, though, where you
23	needed to, you know, amend your mitigation strategy,
24	then you needed to take that action well in advance
25	of the point of no return.
	1

1	Q At what point did Ms. Cazalet's team take
2	over that role from you?
3	A I don't have an exact date on that.
4	Q Was it after the August 2014 workshop?
5	A Yes.
6	Q Was it after the November 2015 workshop?
7	A No. I think it was prior to then.
8	Q Was there a reason that her team took it
9	over from your team?
10	A Yeah. It was just better managed out of
11	that group. We were too busy installing stuff. It
12	was better that that risk group relied or stayed in
13	the project controls arena.
14	Q Do you know the reasons that Westinghouse
15	was engaging in that August 2014 workshop?
16	A I think it was a consensus from both the
17	client and the consortium that it would behoove us
18	to really look to try and make improvements. And
19	that was one of the things that we thought we could
20	improve on, you know, mutual agreement on how we're
21	going to handle the schedule.
22	Q Was there a belief that you had that the
23	current schedule was no longer an accurate
24	assessment of how the project was going?
25	A Well, I think it was an accurate

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1	assessment at the time the schedule was was
2	completed. I think the I think as we went on,
3	you know, it kind of matured. The schedule matured.
4	So there was a lot of things that we
5	picked up doing. And even the processes to track,
6	you know, progress on the schedule were even, I
7	would say, grown into mature, where in the earlier
8	days, you know, we would just basically schedule in
9	big blocks. But in the as time went on, we got
10	more refined with that schedule. So, you know,
11	almost down to every hour was blocked out for
12	scheduling.
13	Q Was it your belief that a more detailed
14	schedule needed to be prepared in 2014?
15	A No. I think the schedule actually served
16	the purpose. It was that we had so many
17	uncertainties with the other issues, that you
18	couldn't really refine the schedule because there
19	were uncertainties.
20	So once those uncertainties were addressed
21	through either, say, mitigation strategies and plans
22	and stuff like that, then you could you could get
23	a more detailed schedule based on those strategies.
24	Q Do you feel that the August 2014 workshop
25	developed a more robust set of mitigation strategies
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1	than had existed previously?
2	A I think so, for the major issues, yes.
3	Yes.
4	Q Were those strategies effective?
5	A Some were. Some obviously we had
6	issues with the modules still that carried forward,
7	but some of them are because it made it made the
8	project aware of what of what they needed to
9	watch out for.
10	Q What strategies, would you say, from that
11	workshop were effective?
12	A Well, I don't know. In the original
13	workshop, I think there were, like, 43 major
14	strategies or something thereabouts. I can't
15	recall. It was 2014, so
16	You know, modules would have been one,
17	obviously.
18	Q Modules? You feel the mitigation
19	strategies from that workshop were effective?
20	A Well, I feel that the strategy was laid
21	out. The commercial arrangement was a roadblock,
22	but I think the strategy was actually laid out
23	pretty well.
24	Q Did that workshop discuss strategies to
25	improve productivity?

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A I think the whole essence of going through
 that workshop was increased productivity, yes.

Q And do you know if the productivity factor improved after that workshop?

5 Α The productivity factor over the years was 6 fairly constant in the 2014 range, that year. But I 7 think what we had laid out as a plan when 8 Westinghouse took over, I mean, the actual percent 9 complete per month, those goals were very hard to 10 achieve when the plan was laid out. And then there 11 were issues that came up that we never did achieve 12 that -- those planned percent complete per month.

So I think the best month we had was like a 1 and a half percent complete. And at the time, we should have been nearing the 2 percent range. And then we were supposed to have a sustained period of almost 3 percent. So those issues were kind of -- we never got there.

Q Did you feel that the goals that were set
out at the outset were unattainable?

A I don't think so. You know, it was laid out, to the best of our ability, to just go forward with the process that we had and the people that we had. And we laid it out with a -- with an estimate that said, you know, this is what we think is giving

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1 us our best shot at making these substantial 2 completion dates. 3 Did you identify factors that were causing Ο 4 productivity to not be at the level that 5 Westinghouse initially anticipated? 6 Well, that was more on the constructor А 7 side, like the Shaw Group/CB&I/Fluor, you know, 8 because they had the majority of construction. So 9 those issues would have been more on that side of 10 the house. 11 When it did come time for the installation 12 from my group, from what I could see, I mean, we 13 were pretty much on schedule with the durations that 14 we had specified. 15 With respect to the productivity of the 0 16 Shaw Group or the subcontractor, I think you mentioned earlier incentives. They were 17 18 incentivized to be productive. Is that -- is that 19 kind of the reason that you feel they weren't as 20 productive as anticipated? 21 Object to form. MR. KEEL: 22 THE WITNESS: I didn't mention anything 23 about incentives, yeah. 24 BY MR. COX: 25 0 Okay. Did you ever have a belief as to

1 why their productivity wasn't hitting the level 2 Westinghouse anticipated? 3 MS. HODGES: Excuse me. Would you please 4 ask the witness to speak up? He's very 5 difficult to hear. 6 THE WITNESS: Okay. All right. 7 MR. SCHALK: Do you need the question 8 repeated? 9 THE WITNESS: Yes, please. 10 BY MR. COX: 11 0 Do you have a belief or a reason as to why 12 the productivity of CB&I/Shaw wasn't at the level 13 that was anticipated by Westinghouse? 14 Object to form. MR. KEEL: 15 Yeah. So there were a lot THE WITNESS: 16 So I think -- I think what it was of issues. 17 was this wasn't your normal civil work project. 18 I mean, the civil work in this project was a 19 little bit complicated. But the constructor 20 also probably wasn't prepared as they should 21 have been to handle the civil work in this 22 project. 23 So -- so it was kind of from both ends 24 that you were finding that you weren't going to 25 achieve the goals that you had set out to do.

1	BY MR. COX:
2	Q Are you familiar with the different levels
3	of schedules on a construction project?
4	A 1, 2, 3, right?
5	Q And can you describe the differences in
6	those level of schedules?
7	A Well, at the top level, level 1, it's
8	essentially just a small might show you 100
9	activities in a schedule.
10	Level 2 goes into more detail, so you have
11	anywhere from 200 to 1,000 activities in the
12	schedule, maybe. Maybe even more.
13	And then a level 3 is you have a detailed
14	schedule where it's thousands of activities in that
15	level 3 schedule.
16	Q And what level schedule did Westinghouse
17	have at the project, if you know?
18	A Yes.
19	MR. SCHALK: Form.
20	Go ahead.
21	THE WITNESS: So that do you want
22	MR. SCHALK: You can answer.
23	THE WITNESS: Okay.
24	So it was a level 3 schedule.
25	BY MR. COX:

1	Q And is that throughout the whole time that
2	you were on the project?
3	A Yes.
4	Q Was that a fully integrated
5	resource-loaded schedule?
6	A It was a fully integrated schedule.
7	However, resource loading, there were some areas
8	that were resource-loaded, and then there were other
9	areas that weren't.
10	So if you were asking the question, was it
11	a fully resource-loaded schedule, no. There were
12	gaps where some of it was, some of it wasn't.
13	Q And is that true for the whole time you
14	were at the project, that there were gaps in the
15	schedule, as far as resource loading?
16	A Yeah. I don't think the resource loading,
17	the identification of that resource loading was
18	treated as a primary importance for some of the work
19	that was secondary in nature.
20	So if you had something that was on the
21	turbine building side, not necessarily nuclear
22	island side, you know, you wouldn't you wouldn't
23	have tried to resource all of that schedule. You
24	would have spent more time trying to do that than
25	actually than actually just having a crew that

1	was assigned to the turbine building, working
2	through it on a daily basis.
3	So on the nuclear island side, that's
4	where you really tried to resource load, because
5	there's only so many work fronts you can work
6	because it's a pretty small footprint in the nuclear
7	island. So you've got some limited access. So
8	you've really got to plan your work out and the
9	crews associated with that.
10	Q When we say "resource loading," can you
11	describe what that means for a schedule?
12	A Yeah, it just means that if you have an
13	activity, then you have a crew associated with that
14	activity, and for the duration and time that that
15	activity completes.
16	Q And when we say "fully integrated" for a
17	schedule, a construction schedule, what does that
18	mean to you?
19	A It means that you're integrating all the
20	components of a construction project. So you've got
21	engineering, procurement, licensing. All that
22	theoretically was integrated with the construction
23	schedule. And then you continue on with the
24	operations side of those.
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1	saying existed on the project, is it is it your
2	belief that there was a fully integrated schedule
3	during your time on the project, but it wasn't
4	completely resource-loaded the whole time?
5	A Uh-huh. True. I think the the fully

5 A Uh-huh. True. I think the -- the fully 6 integrated schedule, once the engineering completion 7 schedule was developed, that's when that fully 8 integrated schedule came in. Up until that 9 engineering completion schedule was developed, you 10 had gaps between the engineering supply and then the 11 construction work that, you know, follows it.

So -- so when that engineering completion schedule got developed, we had a much better picture of just what needed to be done when so you could support construction from an engineering perspective.

Q And when did that engineering completion
schedule get completed?

19 I can't recall. Α Was it before the August 2014 workshop? 20 0 21 I don't -- I can't remember. Α 22 Would you describe the schedule that came 0 23 out of that August 2014 workshop as a fully 24 integrated schedule? 25 Fully integrated from a construction Α

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standpoint, yes. Yes, to the best the best of
the available data that was available at that point.
Q Was Terry Elam really the lead person from
Westinghouse on putting that schedule together?
A Correct.
Q Were you ever informed that SCE&G
disagreed with the schedule analysis that was
prepared in the August 2014 workshop?
A Disagreed with the workshop results? Is
that what you're asking?
Q Correct.
A No. No, no knowledge of that.
Q What was your did you have any
understanding as to how they viewed the schedule
that came out of that workshop?
A No. I think I think there was a
mutual mutual arrival at you know, it was both
groups coming together to produce the schedule and
mitigation strategies that would enable us to finish
the project when we were supposed to.
Q Did Westinghouse provide SCE&G with access
to information to allow SCE&G to analyze that
schedule?
MR. SCHALK: Form.
MR. KEEL: Same.

1 THE WITNESS: Yes. BY MR. COX: 2 3 What types of information did SCE&G 0 4 review, to your knowledge, to analyze that schedule? 5 Α Well, there was a monthly schedule report 6 that was transmitted to SCANA every month, yeah, and 7 they would have had that knowledge from the 8 schedule. 9 Then we had plan of the day meetings where 10 we went through certain sections of the schedule for 11 lookaheads. 12 Then we had the weekly meetings with 13 SCANA; and then the project review meeting, which 14 was the overall status of the schedule, just where 15 we stood with percent complete and that sort of 16 thing, in a presentation to the client. 17 So let's talk about each of those 0 18 meetings. The progress review meeting, how often 19 did that occur? 20 The -- the PRM was once a month. Okay. А 21 And it changed in format over time, but essentially 22 it went over the major areas of the project. So you 23 would have had safety; you would have had quality; 24 you who have had quality, engineering, procurement, 25 licensing, construction, operations.

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1 And then there were -- there was, you 2 know, a presentation on schedule. And there was a 3 presentation on percent complete every month. 4 So -- so I mean, it was -- it was pretty 5 transparent just where we stood at that monthly, you 6 know, end of month. 7 How long did that -- those meetings 0 typically last? 8 9 Α Well, they varied. They started out where 10 it was only a couple of hours. But then there was a 11 period there where they were going six to seven 12 hours. And everybody felt that that really wasn't 13 worth it to have all these people sit there all day. So they cut it back to a smaller group and a -- and 14 15 a reduced time. So it went more efficiently at that 16 point. 17 Are you aware of any instances where SCE&G 0 18 was requesting more information to support a 19 schedule analysis from Westinghouse, and 20 Westinghouse wouldn't provide it? 21 Α Not to my knowledge. 22 In the estimate to complete schedules 0 23 workshops that you were a part of, were the 24 substantial completion dates of the units ever 25 constrained?

Daniel Magnarelli Estimate complete workshops. 1 Α 2 0 The schedule workshops. I think you 3 mentioned two, August 2014 --4 Α Yeah. 5 0 -- and November 2015. 6 Right. That wasn't ETC. That was just --Α 7 the August 2014 was just a workshop with SCANA. The November of 2015 was actually the 8 Okav. 9 transition to Westinghouse taking over. 10 Those -- those -- the ETC was handled 11 separate from those meetings. So if you want to ask 12 the question again, go ahead. 13 I appreciate that. 0 No. 14 So those workshops you were a part of, to 15 your knowledge, they didn't come up with a date when 16 the units would be substantially complete? 17 Α Uh-huh, they did. They did. 18 Do you view that -- I'm having trouble 0 19 understanding how that's different from an estimate 20 to complete. 21 Can you describe the difference between 22 coming up with a schedule that comes up with a 23 substantially complete date versus an estimate to 24 complete? 25 Α Right. So you're talking kind of apples

	<u> </u>
1	and oranges. So the schedule is the schedule. But
2	then the ETC is the actual cost associated with the
3	project.
4	Q Right.
5	A So so it depends for that estimate to
6	complete, to generate those costs, obviously you
7	have to use schedule as input. But you're kind of
8	talking apples and oranges when you're saying
9	schedule versus ETC.
10	Q Okay. And I didn't mean for ETC to refer
11	to costs. So I'll try to avoid that term when I'm
12	talking about schedule.
13	A Right. Yeah. So those dates that we used
14	as substantial completion in the in that
15	November 2015, I believe they were June of 2019 and
16	June of 2020 for the two units. And that's what
17	was what came out of those meetings.
18	Q And were those dates constrained?
19	A They would have been constrained with
20	other constraints in that schedule. And then we
21	would have had to address those through mitigation
22	strategies, like I explained before.
23	Q So from your view, when those schedules
24	were put together, did was there a position where
25	you were told, "These dates can't move to the right,
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1	and we need to find a way to develop mitigation
2	strategies that keep these substantial completion
3	dates from moving to the right"?
4	MR. SCHALK: Form.
5	THE WITNESS: Yeah, you'd have to ask
6	Terry more about that.
7	BY MR. COX:
8	Q Okay.
9	A Yeah.
10	Q And what was your role on the ETC the cost
11	analysis?
12	A Yeah. Like I said before, it was just to
13	review items like schedule, et cetera, but it was
14	mainly our role was to develop the estimate for our
15	group, and the personnel that we had, and the
16	installation costs that we would have been
17	associated with. So, you know, the installation of
18	the primary equipment, that sort of thing.
19	So those are the estimates that we would
20	have developed and submitted to the ETC people in
21	Charlotte.
22	Q From your perspective, looking at
23	installation, did the difficulties in fabrication of
24	the modules create lower productivity on
25	installation because you had personnel that weren't
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1 being used to install who should have been? 2 А I really can't answer that one because, 3 frankly, if you have a delay in the module supply, 4 obviously that's going to set you back 5 productivity-wise. However, there was plenty of 6 work for people on-site to go accomplish other than saying those module deliveries. So there was still 7 8 enough work to go around that those folks should 9 have remained busy with other things to take up 10 their time. 11 0 From your experience on the project, were 12 those folks staying busy who weren't performing the 13 task that was initially anticipated? 14 Yeah, they would have reassigned those Α 15 folks to do other things. So -- so it might have 16 been that they were doing lookaheads on installation 17 of mechanical modules. We had a lot of issues 18 associated with mechanical modules because they 19 would come in from the supplier and they wouldn't be 20 just right. So we would have to modify those 21 modules on-site. 22 So -- so for those folks that were 23 supposed to come in and work on the big structural 24 modules in welding those out, they would have been 25 transferred to go work on the mechanical modules, to

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1	help us where we never anticipated those kind of
2	delays, but we were finding that from the suppliers,
3	they weren't coming in exactly right.
4	Q So why did those steps not help the
5	productivity factor improve?
6	MR. SCHALK: Form.
7	MR. KEEL: Same.
8	MR. SCHALK: Go ahead.
9	THE WITNESS: Right. So the productivity,
10	I mean, it's still going to be what it's going
11	to be. Right? So that would accelerate one
12	piece of the project. But the major piece of
13	the project is, you know, these delivery of
14	modules, period, still is holding you back on
15	the project.
16	It's critical path. So those modules
17	assemblies, the smaller ones, would not have
18	been, quote, critical path.
19	BY MR. COX:
20	Q And when you say "critical path," can you
21	explain what that means?
22	A It's just a single path through the
23	project that gives you the shortest duration of
24	time.
25	Q Is it the most important path to the

1	substantial completion date?
2	A Yeah, it's what you concentrate on, yeah.
3	Q And why do you concentrate on that?
4	A Well, everything works from that. So
5	you you have the critical path work, and then
6	everything kind of flows into the critical path,
7	either in parallel or as prerequisite steps. So
8	with the critical path, that's how you drive your
9	project.
10	Q What happens if you have mitigation
11	strategies on the critical path that fail?
12	A Then you come up with other ideas to
13	mitigate the delays. And in some cases, if you
14	can't, you just, you know, take the hit in the
15	schedule.
16	Q In your experience on the project, were
17	any mitigation strategies developed that you found
18	to be impractical impracticable?
19	MR. SCHALK: Form.
20	THE WITNESS: No. From my involvement in
21	that, I thought that the people really made a
22	good effort to develop strategies that were
23	workable. And they hinged on certain
24	decisions, either by consortium or the owner,
25	but there were decision points that were made.

1	And the fact is, I think, the folks that
2	developed those strategies really did a pretty
3	good job. And that was the consensus that, you
4	know there must have been, I'd say, 40
5	people sitting in the room down in Columbia for
6	this transition period. And those are the
7	folks that really put in the effort to develop
8	those mitigation strategies in detail.
9	BY MR. COX:
10	Q And why do you believe the substantial
11	completion date for the project continued to slip to
12	the right if you feel those mitigation strategies
13	were were effective?
14	A Well, I'd say the mitigation strategies,
15	the development of them, that part was good. The
16	actual execution of them may or may not have been as
17	good. And there was still issues commercially on
18	mitigation strategies that took time to resolve.
19	So so while the mitigation strategy was
20	adequate, the duration for the decision-making
21	process probably would have taken too long, so it
22	extended the window.
23	Q So let's turn to those changes that
24	occurred in November 2015, or the fall of 2015.
25	Were you involved in the negotiations that

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1	resulted in Westinghouse taking over some of the
2	role from CB&I?
3	A No.
4	Q How did you hear about that change?
5	A Through management.
6	Q And who informed you about that
7	specifically?
8	A It would have been the project director.
9	Q Was that Mr. Churchman?
10	A Yes.
11	Q What was your view on the changes that
12	occurred then?
13	MR. SCHALK: Form.
14	THE WITNESS: I just our company let
15	out you know, basically had a direction to
16	go, and we were the people to execute it.
17	BY MR. COX:
18	Q Did productivity improve, from your point
19	of view, after the changes in the fall of 2015?
20	A I think it did. And I think it shows in
21	the percent complete because it was climbing. We
22	never achieved what we wanted to achieve, but it was
23	climbing. So there were some improvements. It
24	never really got to where it had to get to if we
25	wanted to meet those substantial completion dates,

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1	but it was headed in the right direction.
2	Q Why didn't it get all the way to where it
3	needed to be to meet the substantial completion
4	date?
5	A Well, there were a lot of changes being
б	made, and the full effect of those changes, I don't
7	think they were realized yet. But you could start
8	to see the trend that we were improving.
9	Q And did that trend go all the way up of
10	improvement go all the way up to the time of
11	Westinghouse's rejection of the contract?
12	A I think on the last month, from what I was
13	told, we had like a 1 and a half percent completion
14	for the month, that essentially that was the highest
15	that we had achieved; so yeah.
16	Q Did you think the project was going to get
17	constructed all the way up until the time that
18	Westinghouse departed?
19	A Yes. My belief was we'd finish the
20	project.
21	Q Do you have any knowledge of SCE&G's
22	requests of information from WEC for information
23	regarding the risks to meet the schedule?
24	MR. SCHALK: Form.
25	THE WITNESS: Well, we talked to SCE&G

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1	about those risks quite a bit, and we held
2	monthly meetings with SCE&G to identify and go
3	through those risks on a monthly basis.
4	Actually, certain representatives of SCE&G
5	were in the weekly risk meetings. And then we
б	presented all of, you know, what we had done to
7	senior management of SCE&G, senior site
8	management, on a monthly basis. So people were
9	aware of exactly where we stood.
10	BY MR. COX:
11	Q Who from SCE&G was at those weekly risk
12	meetings?
13	A The weekly?
14	Q Right.
15	A It would have been somebody like Kyle
16	Young or one of his representatives.
17	But then on the monthly ones, it was
18	attended by senior site management for SCANA, so
19	like a Ron Jones, Brad Stokes, Alan Torres, those
20	folks.
21	Q What was the nature of the information
22	presented at those meetings versus the monthly
23	progress meetings?
24	A It was just it was just talking
25	specifically to risks. So this is the risk. This

	Daniel Magnarelli
1	is the major project risk. This is how we're going
2	to try and mitigate it. Here's where we stand.
3	That was the type of information that we shared with
4	SCANA.
5	Q How did it differ from what was discussed
6	in the monthly meetings?
7	A The monthly meetings, you know, the risk
8	register might have been talked about in high-level
9	form, but it wasn't going into the detail that the
10	risk meeting itself would have.
11	Q And who presented the information from
12	Westinghouse at those weekly meetings?
13	A The weekly meetings? That would have been
14	somebody from Lisa Cazalet's group.
15	Q Did you become aware at some point in time
16	that Bechtel was doing an assessment of the project?
17	A Yes.
18	Q When did you become aware of that?
19	A We were told that Bechtel was going to be
20	performing an assessment. SCANA had told our
21	project director, and then that flowed down from the
22	project director that Bechtel was coming on-site to
23	do this assessment.
24	Q So Mr. Churchman was the one who told you
25	about the assessment?

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1	A Right.
2	Q Do you recall when that was?
3	A No, I don't know.
4	Q Have you ever worked with Bechtel before
5	2015?
6	A Yes. We had done a lot of decommissioning
7	work in spent fuel and that sort of stuff. And
8	we I was actually involved in working as a
9	subcontractor to Bechtel at Connecticut Yankee to
10	develop and build a new fuel transfer facility
11	farther. So yes, I've been involved with Bechtel.
12	Q What time period was that?
13	A Now you're testing my memory.
14	That was quite some time ago. That was
15	with AREVA; so I would think that that's got to be
16	10 years ago.
17	Q What is Bechtel's reputation in your
18	industry?
19	A I think Bechtel is very good. I think
20	they're kind of a stickler to work with
21	commercially. They're not the easiest people to get
22	along with, but typically they finish the job, so
23	Q Did Mr. Churchman tell you anything about
24	the reason that Bechtel was doing an assessment of
25	the project?

1	A No. The assessment was just basically
2	they were coming in to assess the status of the
3	project and what they felt about it. So other than
4	that, there wasn't much detail.
5	Q Did you ever receive any information about
б	the reason for the Bechtel assessment from anyone
7	besides Mr. Churchman?
8	A Not really.
9	Q Were you ever told that the purpose of the
10	Bechtel assessment was to prepare for litigation
11	against Westinghouse?
12	MR. SCHALK: Form.
13	THE WITNESS: Never told that.
14	BY MR. COX:
15	Q Were you ever told that they would have
16	any role in the project beyond assessing the
17	project?
18	A No, I was not told that.
19	Q What were you told about the scope of
20	Bechtel's assessment of the project?
21	MR. SCHALK: Form.
22	THE WITNESS: Kind of like I said, it was
23	just to come in and do an assessment of where
24	the project stood. And then the going forward
25	on the project, whether it was reasonable to

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1	assume that, you know, they make schedule
2	dates, et cetera. So that was kind of what we
3	were told.
4	BY MR. COX:
5	Q So you were told that schedule assessment
б	was part of the assessment?
7	A Well, I'm not saying schedule
8	specifically, but just the likelihood of making the
9	substantial completion dates. And then there were
10	other things factored into that.
11	But, you know, it was essentially Bechtel
12	had the scope of work that they were going to come
13	in and perform. Details behind it, I didn't get any
14	written details of what exactly they were doing, so
15	it would just be conjecture on my part.
16	Q What type of interactions with Bechtel did
17	you have during the assessment?
18	A So so we provided logistics, or some
19	logistics for them, for them to get around the site
20	and to go in and investigate certain areas, and just
21	like a support function for them. But we did not
22	we did not work with those folks as far as
23	developing any details that went into the report.
24	Q What types of documents did you provide to
25	Bechtel?

1	A I I can't answer that, but I know SCANA
2	had set up a reading room that Bechtel would
3	basically be able to look at those documents. And
4	Westinghouse, I think, had supplied some documents
5	for that reading room, as well.
б	Q Are you are you aware of any requests
7	for information by Bechtel that Westinghouse refused
8	to meet?
9	A No, not that I know of. And those
10	requests would have come through SCANA. They
11	wouldn't have come through Bechtel.
12	Q Okay. Well, that's fine.
13	My question to you is: Even if the
14	request to Westinghouse or to you came through
15	SCE&G, are you aware of any times where Westinghouse
16	said, "We're not going to provide that information"?
17	A Not to my knowledge.
18	Q Were you ever given the suggestion that
19	you were not to cooperate with Bechtel in their
20	assessment?
21	A No. Nobody ever told us to just not
22	cooperate, no.
23	Q Beyond no one telling you that, did anyone
24	give you the impression that you shouldn't be
25	forthcoming with Bechtel?
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1	MR. SCHALK: Form.
2	THE WITNESS: Nope.
3	BY MR. COX:
4	Q Did you have an interview with Bechtel?
5	A Have an interview?
б	Q Yes. Did someone from Bechtel interview
7	you?
8	A No. There were discussions, but it
9	wasn't, quote, a formal interview.
10	Q So you had conversations with
11	A Yeah, certain Bechtel people.
12	Q Okay. Who from Bechtel did you talk to?
13	A Well, I had talked to John Atwell, who
14	was John, I don't think, was part of the team
15	that actually did the assessment. I think John was
16	more the Bechtel lead on-site putting it together.
17	So
18	Q What did you talk to Mr. Atwell about?
19	A Well, just, you know, what they need from
20	the support standpoint for us to try and help them
21	out.
22	Q What did he say they needed?
23	A Well, it would just be like escorting into
24	the areas that they needed to get in to see what the
25	status of the scope of work was. So, you know, we

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1	could provide them that access.
2	Q Do you recall talking to anyone else from
3	Bechtel, besides Mr. Atwell?
4	A I don't. I don't. I'm getting the
5	Bechtel thing confused with the Construction
6	Oversight Review Board. So so from the Bechtel
7	side, I don't recall anything on the Bechtel side.
8	Q Did you provide a schedule to Bechtel?
9	A I can't say definitively, but I guess
10	that's a question for Terry.
11	Q Okay. Did anyone at Westinghouse express
12	any concerns to you about providing information to
13	Bechtel?
14	A No, not to me.
15	Q Did you ever see the report that Bechtel
16	produced regarding the assessment?
17	A I've seen what's been printed in the
18	papers. You know, I've seen that. I haven't seen
19	the attachments that were associated with the
20	report, but the main body of the report, I've seen,
21	yes.
22	Q Did you see it while you were still on the
23	project?
24	A No; it was after.
25	Q So it was within the past year that you

<pre>1 saw it? 2 A Uh-huh. 3 Q Is that a yes?</pre>	
3 Q Is that a yes?	
4 A Yes.	
5 Q Did you have any understanding, whe	en
⁶ Bechtel was doing the assessment, whether the	ere
7 would be a written report?	
8 A I didn't know what the scope of the	ir work
⁹ really was, you know. I was just told that t	hey
¹⁰ were coming in and doing an assessment.	
11 Normally, when you do an assessment	, you
¹² write it up. So I would imagine that there w	ould be
¹³ a report, but I had I had no knowledge of	what
14 they were contracted to do.	
Q Did you have any conversations with	ı your
16 colleagues about requesting to see the Bechte	2
17 report?	
A No. We just picked it up online wh	ien it
19 was available.	
20 Q Right. And I should rephrase that	
21 question.	
22 When you were still on the project,	in
23 2015, after the assessment was complete an	nd let
24 me preface this by saying: Did you have an	
²⁵ understanding of when the Bechtel assessment	was

1	done?
2	A I guess the the completion date of the
3	Bechtel assessment, I don't really know the end date
4	on that. Okay? But but the report itself, the
5	first time I saw it was when it was public.
6	Q And did you have any conversations, while
7	you were at the project, with your colleagues about
8	asking for a written copy of the Bechtel assessment?
9	MR. SCHALK: Form.
10	THE WITNESS: I didn't.
11	THE COURT REPORTER: Did or didn't?
12	THE WITNESS: Didn't.
13	THE COURT REPORTER: Thank you.
14	MR. SCHALK: Try to keep your voice up.
15	THE WITNESS: Voice up? Okay.
16	BY MR. COX:
17	Q Did you have any discussions, while you
18	were on the project, about what Bechtel's
19	conclusions were?
20	A Not really. I think, you know, the report
21	was put out and, you know, was it wasn't viewed
22	one way or the other from the project perspective,
23	so
24	Q Did you know that a report had been put
25	out while you were on the project?

1	A No. You know, the first like I said
2	before, the first time I saw the report was when it
3	became publicly available.
4	Q And I want to kind of shift this
5	questioning back to the time period right after the
6	Bechtel assessment was complete.
7	Did you have any understanding even
8	though you didn't see a report, did you have any
9	understanding of what the conclusions Bechtel had
10	reached in its assessment were?
11	A Not not not until I saw the report
12	when it became public. That report and the
13	assessment was basically handled from SCANA
14	internally, so they were working through SCANA. So
15	we weren't obligated to see anything that was
16	generated from Bechtel on that.
17	Q So it's correct to say that you did not
18	know what Bechtel's conclusions were while you were
19	on the project?
20	MR. SCHALK: Asked and answered. Go
21	ahead.
22	THE WITNESS: That's true. Or at least I
23	don't recollect when those those when the
24	information became available.
25	BY MR. COX:

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1	Q Did it become available while you were on
2	the project?
3	A No, not to my knowledge. I mean, I told
4	you it started when it became public.
5	Q Right. And I just want to know what you
б	personally know, not your company.
7	You mentioned the Construction Oversight
8	Review Board. Can you explain what that is?
9	A Well, SCANA had brought in the seasoned
10	veterans I guess "seasoned" is the best word to
11	use that had a lot of construction experience.
12	And they were supposed to basically bring some
13	oversight and make recommendations to SCANA from the
14	construction perspective.
15	So it was infrequent meetings. There were
16	periods I think it might have been once a
17	quarter. I don't really remember the periods on the
18	meetings, but this construction oversight board
19	would do some reviews. They'd interview people that
20	they wanted to interview. And then they'd go out
21	and complete their assessment and make
22	recommendations to SCANA.
23	Q Were you ever interviewed by the board?
24	A I was. I was.
25	Q Who interviewed you?

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1	A I'm trying to remember. I can see his			
2	face. He used to work for SGT. It was Williamson,			
3	Mr. Williamson.			
4	Q And what did you discuss with him?			
5	A Just the overall approach to construction			
б	and our scope associated with the project.			
7	Q Are you aware of any recommendations that			
8	were made by the Construction Oversight Review			
9	Board?			
10	A They put it out and they issued those			
11	essentially to SCANA that would then roll through			
12	SCANA and come to us in the form of, you know,			
13	enhancements, whether they be schedule or a process			
14	or whatever.			
15	Q And did you implement those			
16	recommendations?			
17	A Well, we would have taken it to put it as			
18	an action to implement it. So there would have been			
19	like a performance improvement plan that would have			
20	taken that item and captured it and tracked it to			
21	make sure that that recommendation did get utilized.			
22	Q And how often did this these			
23	recommendations come from the review board?			
24	A Well, I can't remember that clearly when			
25	they met, you know. I don't know if it was once a			

1	quarter or whatever, but usually there was an		
2	assessment for each time that they came and met.		
3	And we would take those assessments that came		
4	rolling through SCANA to implement.		
5	Q Was anyone from Westinghouse on the		
6	Construction Oversight Review Board?		
7	A No. It was independent.		
8	Q Did SCE&G ever use an owner's engineer on		
9	the project?		
10	A That's a good question. They had		
11	engineering firms come out and perform services for		
12	them. But as far as, like, an AE on the project,		
13	I they didn't have an AE, but they did, for		
14	specific scopes of work, contract engineering		
15	companies to perform work for them.		
16	Q What does AE mean?		
17	A Architect engineer.		
18	Q How is that different from an owner's		
19	engineer?		
20	A Well, an architect engineer is actually		
21	involved in portions of the design, as well. The		
22	owner engineer would not be.		
23	Q Have you worked with owner's engineers on		
24	other projects?		
25	A Yes, yes.		

1 Q What type of role does the owner's 2 engineer usually fill? So the owner's engineer is basically to 3 А review whatever happens on the other side of the 4 5 house. So if somebody's been contracted to go build 6 a building, right, the owner's engineer is looking 7 at it from, you know, what specs were provided and 8 all that, making sure the compliance between the 9 constructed building is essentially the same as what 10 was outlined in the specifications. 11 Do you feel the project would have Q 12 benefited from having an owner's engineer? 13 Α I can't answer that. It's a SCANA 14 question. 15 Why do you feel it's a SCANA question? 0 16 Because, you know, SCANA had an overall Α 17 plan, I guess, to manage the project. And it didn't 18 include, I don't think, an owner's engineer. So --19 so you'd have to ask SCANA that question. 20 The project ran into some issues with 0 21 productivity --22 Α Uh-huh. 23 0 -- correct? 24 Α It did. 25 Do you feel an owner's engineer would have 0

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1	helped mitigate those problems?
2	MR. KEEL: Object to form.
3	THE WITNESS: I can't see where they would
4	have actually would have had the insight to
5	actually mitigate the problem.
6	BY MR. COX:
7	Q When did you become aware that
8	Westinghouse was going to declare for bankruptcy?
9	A March of 2017.
10	Q At the time it occurred?
11	A Yes.
12	Q You didn't have any notice that it would
13	happen earlier?
14	A We had we had a day or two. That was
15	about it.
16	Q What was your reaction to learning about
17	it?
18	MR. SCHALK: Form.
19	THE WITNESS: My reaction was it was a
20	necessity. They needed to do it.
21	BY MR. COX:
22	Q Why was that?
23	A Well, cash flow issues inside of
24	Westinghouse. They had to do it.
25	Q Did you feel that the project was, from

1	your view, was creating financial troubles for
2	Westinghouse?
3	A I'd say obviously, yeah. Yeah.
4	Q Did you have any view on whether the fixed
5	price amendment that occurred in October 2015 would
6	cause financial problems for Westinghouse?
7	A At the time, I didn't I didn't know
8	anything that had been worked out in the details of
9	that agreement. But going forward, obviously it did
10	prove to be not not probably the right thing to
11	do. So so I really can't answer beyond that.
12	Q Did you ever hear anyone at Westinghouse
13	convey to SCE&G that Westinghouse would continue to
14	work on the project even if it resulted in
15	Westinghouse losing money on the project?
16	A I never heard that.
17	Q Were you involved in Westinghouse's
18	calculations, financial calculations, that they used
19	in negotiating the 2015 amendment to the contract?
20	A Huh-uh.
21	Q Were you involved in providing SCE&G
22	information about the project in 2017, after
23	Westinghouse's bankruptcy?
24	MR. SCHALK: Form.
25	THE WITNESS: Say that again.

1	BY MR. COX:		
2	Q Sure.		
3	In 2017, after Westinghouse's		
4	bankruptcy		
5	A Right.		
6	Q were you involved in providing		
7	information to SCE&G about the status of the		
8	project?		
9	A We continued on like it was a normal		
10	project. So all the reports that we generated, we		
11	kept them to generate those reports and transmit		
12	those to the owner.		
13	Q Did you have any unique obligations during		
14	that time period to work with SCE&G on calculations		
15	that SCE&G was making about whether to continue		
16	constructing the project?		
17	MR. SCHALK: Form.		
18	THE WITNESS: I never did.		
19	BY MR. COX:		
20	Q Is that a no?		
21	A That's a no.		
22	MR. COX: If we can take a short break,		
23	I'll look through my notes and finish up.		
24	MR. SCHALK: Sure.		
25	THE VIDEOGRAPHER: The time is 10:33 a.m.		

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1	We are off the record.
2	(Recess in the proceedings from 10:33
3	to 10:45.)
4	THE VIDEOGRAPHER: The time is 10:45 a.m.
5	We are back on the record. Please proceed.
б	BY MR. COX:
7	Q Mr. Magnarelli, I have just a few more
8	follow-up questions.
9	A Sure.
10	Q During your time at the project, did you
11	ever have any interactions with any personnel from
12	the South Carolina ORS, Office of Regulatory Staff?
13	A Yes, we met on there was functional
14	area assessments that went on between the consortium
15	that gave the results of those functional area
16	assessments to the owner. ORS was of particular
17	interest in that, and we met regularly with the ORS
18	to go over those functional area assessments with
19	them.
20	And then there were the periodic monthly
21	meetings with the ORS. And then those I didn't
22	regularly attend, but on once or twice, I met with
23	them on that, as well.
24	Q Those monthly meetings you're referring to
25	are different meetings than the progress review

	Daniel Magnarelli		
1	meetings, correct?		
2	A Correct.		
3	Q Did ORS attend the progress review		
4	meetings?		
5	A They could have. I believe they were		
6	invited. I think in some instances, they did, but I		
7	don't have a total recollection.		
8	Q And these monthly meetings with		
9	A ORS.		
10	Q with ORS		
11	A Right.		
12	Q were you always in attendance there or		
13	generally?		
14	A No. Once or twice, I had gone as a		
15	replacement for, like, Carl Churchman or somebody		
16	else.		
17	Q What issues I'm sorry.		
18	A Because Carl would have been the guy that		
19	normally attended those.		
20	Q And what was discussed at those meetings?		
21	A Again, it was just the status of the site.		
22	And, you know, if the ORS had particular concerns or		
23	any issues that they wanted to discuss, they would		
24	have brought them up during that meeting.		
25	Q Did you ever have any interactions with		

1 ORS staff outside of those meetings, like one-on-one 2 conversations? 3 Α There were some, because the ORS 4 representatives were there and, you know, you'd just 5 have a discussion with them. Like, I can 6 remember -- I can't remember the gentleman's last 7 name, but his first name was Gene. And we were 8 setting a steam generator, and he wanted to know 9 exactly what the status was and the setting of that 10 steam generator, because we had some issues with bad 11 controllers that day. 12 But, I mean, discussions like that we 13 would have when you'd see them around the site and 14 they'd stop you and ask you some questions. 15 Were you ever told not to share certain 0 16 information with ORS personnel? 17 Α No. 18 Did you have any input into the filings 0 19 that SCE&G made with the South Carolina Public 20 Service Commission? 21 MR. SCHALK: Form. 22 THE WITNESS: No. 23 BY MR. COX: 24 Was there an issue or problem at the 0 25 project regarding parts arriving and backing up

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1	before they were ready to be constructed?
2	A There were. You know, we had to establish
3	storage tents, and then we actually had to rent
4	warehouses offsite to actually store the equipment,
5	as well. So, you know, it did.
6	We had a lot of equipment delivered that
7	we couldn't put into the plant because the plant
8	wasn't that far constructed yet. So we had to find
9	someplace to put it and store it properly, because a
10	lot of this equipment had pretty stringent storage
11	requirements, you know, humidity, temperature,
12	et cetera.
13	Q Did that increase the cost of the project?
14	A The added storage, yeah. Yes.
15	Q What was the volume of parts that you had
16	on hand that you couldn't use yet?
17	MR. SCHALK: Form.
18	MR. KEEL: Form.
19	THE WITNESS: I couldn't answer that.
20	BY MR. COX:
21	Q How much space were you required to rent
22	out to store this equipment?
23	A Well, there were two warehouses. One was
24	Metro and one was Blythewood. And I believe the
25	combination of the two was about 400,000 square feet

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	5
1	of storage space.
2	Q How long did you have to rent that space?
3	A That I don't know.
4	Q Was it the whole time you were there?
5	A No.
6	Q Did it end before you left?
7	A It's ended now, since they've removed all
8	the equipment from those warehouses and brought it
9	back to the site. So so all the equipment is out
10	of those warehouses. They no longer pay rent. And
11	it's back on-site right now. It's stored in tents
12	and warehouses on-site.
13	Q Was that space still being rented at the
14	time that Westinghouse rejected the contract?
15	A It was
16	MR. SCHALK: Form.
17	THE WITNESS: Yeah, I'm not sure. I'm not
18	sure.
19	BY MR. COX:
20	Q About how much did it cost to rent that
21	space?
22	A I don't know.
23	Q Did you ever know?
24	A No. That's not my bailiwick, rent.
25	Q Whose bailiwick is it?

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1	A It would have been our procurement people.
2	They would have established the contract.
3	Q And who was that?
4	A Ed Terres is the WECTEC purchasing
5	manager. So it probably would have been something
6	through his group.
7	Q How do you spell his last name?
8	A T-E-R-R-E-S.
9	Q During the August 2014 schedule workshop,
10	do you recall whether Westinghouse projected that it
11	could reach a 1.15 productivity factor in six
12	months?
13	A 1.15?
14	Q Right.
15	A Right. So the 1.15 was the nominal that
16	we believed was achievable, yeah. And that's a
17	performance factor, not a productivity factor.
18	Q What's the difference between those two?
19	A They just call that the performance
20	factor; so it's not to be confused with
21	productivity.
22	Q What does performance factor measure that
23	productivity doesn't?
24	A So if you had a 1.0 performance factor,
25	that means that you're performing at what you had
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1	planned. Okay. So because of the complexity of the
2	buildings, et cetera, the plan was to use a
3	performance factor of 1.15. And as long as you met
4	1.15, you were on plan.
5	Q And how is that different than a
6	productivity factor? Because I thought they were
7	the same.
8	A They call it performance factor. That's
9	all I can tell you.
10	Q Okay. Who from SCE&G did you interact
11	with the most while you were on the project?
12	A It would have been their construction
13	folks, so Alan Torres, Kyle Young, people in Kyle's
14	group.
15	Q How often did you interact with them?
16	A Daily.
17	Q Are you still a Westinghouse employee?
18	A Yes.
19	Q What's your current position?
20	A Director of Operations.
23	Q And has that been your role ever since you
24	left the project?
25	A No. We my role was actually to demob

1	the V.C. Summer site for the Westinghouse
2	construction. So we demob'd that site and I shipped
3	the construction equipment for auction. So the
4	construction equipment has been auctioned. We still
5	have a couple of things left on-site, like the HLD
6	and the batch plant that we're planning to also
7	auction off at some point.
8	So right now I'm the last guy badged at
9	V.C. Summer from Westinghouse.
10	Q But you no longer physically work out of
11	V.C. Summer; is that right?
12	A No. I make periodic trips.
13	Q When did you leave the plant from working
14	there on a full-time basis?
15	A It would have been the what is it now?
16	I believe it was I don't have the date offhand,
17	but I think it was June 1st is when we actually made
18	that transition.
19	Q June 1st of 2018?
20	A Yes.
21	Q This year?
22	A Right.
23	Q Were you in touch with SCE&G about their
24	estimates to complete that they performed after
25	Westinghouse rejected the contract?

1	A Repeat that, please.
2	Q Sure.
3	Were you involved with SCE&G's work in
4	determining an estimate to complete schedule in
5	2017, after Westinghouse rejected the contract?
6	MR. SCHALK: Form.
7	THE WITNESS: No, I was not.
8	BY MR. COX:
9	Q Did you ever hear that SCE&G was critical
10	of the schedule that Westinghouse had at that time?
11	MR. SCHALK: Form.
12	MR. KEEL: Same.
13	THE WITNESS: No.
14	BY MR. COX:
15	Q Were you ever involved in the work at the
16	Vogtle plant construction?
17	MR. SCHALK: Form.
18	THE WITNESS: No. We do we do some
19	minimal work with the Vogtle plant, but no, not
20	primarily.
21	BY MR. COX:
22	Q Are you aware of any differences in how
23	the Southern Company supervises the work at Vogtle
24	versus how SCE&G supervised the work at V.C. Summer?
25	A No, I wouldn't have any knowledge of that.

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1	MR. COX: Thank you for your time,
2	Mr. Magnarelli. I have no further questions.
3	I believe my colleagues do.
4	THE WITNESS: All right. Thanks.
5	MR. NELSON: Could we ask again that the
6	deponent speak more loudly?
7	THE WITNESS: Okay.
8	
9	EXAMINATION
10	
11	BY MR. EVANS:
12	Q Good morning, Mr. Magnarelli. I'm Jerry
13	Evans, and I represent a class of plaintiff
14	ratepayers in this case. And I also thank you for
15	giving us your time to be here today.
16	I want to ask a couple of terms you used
17	in your testimony. You said at the period that
18	Fluor took over some of the responsibilities of Shaw
19	and CB&I, that Westinghouse maintained
20	responsibility for primary equipment installation,
21	correct?
22	A Correct.
23	Q Define for me "primary equipment."
24	A It would actually be the nuclear circuit.
25	Okay. So the heart of the plant, it would be like

1	the reactor vessel, the steam generators, the
2	pressurizer, PRH, our heat exchanger, reactor
3	cooling piping. It would actually be probably the
4	most important equipment that goes into the plant.
5	Q And what about other construction-type
6	equipment, like cranes, for example? Would that
7	have been Westinghouse's responsibility or
8	A Well, cranes, like the polar crane that
9	were down in containment, that would have been our
10	responsibility. But just normal construction
11	cranes, that would have been the constructor's role.
12	Q Which would have been Shaw and CB&I?
13	A Shaw/CB&I and Fluor.
14	Q And then Fluor?
15	A Right.
16	Q Another term you used, when talking about
17	productivity issues, you cited one of the causes,
18	that the civil work was underestimated.
19	What's your definition of the "civil
20	work"?
21	A Civil work is the actual structure itself.
22	So in other words, it would have been the aux
23	building, auxiliary building, annex building. For
24	the nuclear island, it would have been containment,
25	and then the shield building. So that would have
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1 been the nuclear island civil work.

2

3

Q And are you aware of any particular steps that SCE&G took to mitigate the civil work problems?

4 No, there wasn't -- I think any -- any Α 5 issues that came up, it was kind of a joint effort. 6 Like I said before, on these mitigation strategies 7 and the meetings between the consortium and the 8 owner, that mitigation strategies were developed to 9 address issues. However, there were just certain 10 issues that -- that the constructor was having 11 trouble with, concrete placements, for instance. 12 And then there was the issue associated with the 13 complexity of the rebar patterns and actually, you 14 know, making sure that everything fit.

So it -- it wasn't as straightforward, I
think, as the constructor had originally planned.
So it was a bit more complex than your straight
structural steel building or something like that, or
reinforced concrete building.

Q And was it your understanding that SCE&G was fully aware of these construction problems as they were happening?

A Yes. Yes.

24QYou mentioned a scheduling workshop in25August 2014.

23

1 Α Right. Whose idea was it to have that workshop? 2 0 3 А I think it was mutually agreed upon 4 between the consortium and the owner. 5 Q Do you remember anyone in particular who 6 was responsible for planning or setting up the 7 workshop? 8 Α Well, Kyle Young from SCANA was probably 9 the point person, and Terry Elam from our side was 10 the point person on that. 11 I know in the initial first few days, we 12 had a lot of people in the room at management level. 13 Like Alan Torres probably would have been in there 14 on the first day. There were some senior managers 15 in there on the first few days of the scheduling 16 workshop, and then it was left up to their designees 17 to complete the effort. 18 You mentioned an amount of equipment that 0 19 had to be stored in warehouses offsite. Was there 20 an inventory done of that equipment? 21 Α Yes. 22 So were you fully aware of where Ο Okav. 23 equipment was, what it would take to get it into 24 service, and who would be responsible for getting 25 it?

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1	A Right.
2	MR. SCHALK: Form.
3	THE WITNESS: That was all recorded.
4	BY MR. EVANS:
5	Q At some point in 2016, were you
6	responsible for heading up an inventory of
7	equipment?
8	A That wasn't me, but it was we had some
9	involvement. The person that actually was the point
10	person on that was a gentleman by the name of Tony
11	Boone, and he was actually in my group.
12	So so that whole planning organization
13	that I had talked about before, those were
14	essentially people that went out and captured the
15	inventory and the status of the project of where it
16	stood right at that point from a construction
17	perspective.
18	Q What was the need for for an inventory
19	assessment in 2016 that was different from before?
20	A The inventory assessment in 2016 was to
21	actually calculate how much had been installed in
22	the in the units. So it was not only doing the
23	inventory of where the equipment was, just to verify
24	the equipment, but it was also how much rebar had
25	been installed, how much embedment plates.

1	It was to get some percent complete and
2	have a good handle on that percent complete, if
3	that's the effort that you're talking about. My
4	dates, 2016, it was about that time frame that they
5	went through this effort. And it was a major effort
6	to do that. So that's my recollection, 2016, is the
7	approximate time for that.
8	There was also there was also material
9	inventory going on at all the warehouses and in all
10	the tents, et cetera. And I can't can't remember
11	the dates on that, so I'm not sure exactly what
12	you're talking about in 2016. They both might have
13	overlapped.
14	Q Well, about how long did this inventory
15	process take?
16	A Okay. So the inventory process that I was
17	talking about, to see how much had actually been
18	installed in the plant, was weeks. Not not
19	several months, but it was actually weeks.
20	Q Six weeks? Eight weeks?
21	A I would say between four to six, somewhere
22	in that range.
23	Q As part of the inventory assessment, was
24	there any attempt to reduce the amount of equipment
25	that was either on-site or in storage?

Τ

1	A No. We had planned to put it in the
2	plant.
3	Q A number of documents have been produced
4	in this litigation, and we've seen a number of
5	presentations that are made. And a couple of them
6	have your name on them.
7	A Great.
8	Q So I wanted to ask you a question.
9	What is the advanced constructibility
10	program?
11	A Yeah. So this is the planning effort that
12	I had talked about before. When I got to the
13	project, there really wasn't a lot of lookahead from
14	a construction planning standpoint. So we we
15	established a strategic planning team, is what the
16	organization was called. And that strategic
17	planning team then morphed into this planning group
18	that actually did the construction planning effort,
19	as well as refine the work control processes.
20	So we actually took the procedures
21	there were nine procedures that you had to adhere to
22	from a work package preparation standpoint. And we
23	basically scaled that down into one procedure that
24	you had to use versus the nine. So it was things
25	like that for enhancements, efficiencies.

1 As far as the planning team, they did reviews of just how the building should be 2 3 constructed. And they kind of laid it out step by 4 step, what you should be installing first, second, 5 third, et cetera. So the strategic planning team 6 would identify that, but then this advanced 7 constructibility review team would also look to see 8 if what the design -- the design provided was 9 actually constructible, and then what information we 10 could give the constructor that would help them in 11 constructing.

12 So -- and I'll just give you an example. 13 So they had spacing on rebar. Okay. But that 14 spacing on rebar would have been a problem, because 15 if you laid it out from one end, which typically constructors will do, and then go all the way across 16 17 the face of the wall, you would have run into 18 interferences in the middle of the wall because 19 there's other embedments, et cetera.

So that group would have said, "Hey, you have to lay out your rebar pattern on either side of these embedments, and then that way you won't have the issues associated with the misalignment and interferences." That would have been the group that would have done something like that.

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1	Q And was this advanced constructibility
2	program was it implemented?
3	A It was.
4	Q And do you think it solved problems?
5	A We got through the pilot program, and that
б	showed benefits. And then we instituted it
7	projectwide. And I think the fact that it wasn't
8	totally bought into by the constructor might have
9	been might have been part of the reason that we
10	didn't fully realize what it could have done.
11	Q Did anyone from SCE&G have any involvement
12	in the advanced constructibility program?
13	A They they were aware of it. Did they
14	actually sit in that group? I don't think that they
15	were actually part of the group. You know, they
16	were obviously involved in knowing that strategic
17	planning was going on, advanced constructibility.
18	We also had a group that did Tekla
19	modeling. That's a software program that would
20	actually model rebar patterns to make sure that
21	things were going to line up and not interfere with
22	each other. So that effort was ongoing to help the
23	constructor actually gain some efficiencies.
24	Q And was SCE&G aware of the constructor
25	I think this was your term not fully buying into
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1	this?
2	A You know, we talked about it. The
3	constructor and it's a mindset with the
4	constructor that if you're going to get them to
5	think in these terms, you should probably have
6	started at the project inception.
7	But these the constructor was
8	essentially just dealing with day-to-day issues.
9	And they just wanted to see wanted to face what
10	was, you know, really staring them in the face.
11	So these things were really planning. So
12	they were out further than just, you know, their
13	day-to-day activities.
14	Q I think you in your earlier testimony,
15	you described the constructors and Westinghouse as
16	having divergent goals; is that correct?
17	A Uh-huh.
18	Q Is that an example you were just talking
19	about of seeing the immediate need?
20	A No. I think at that point, you know, we
21	were all one team at that point. But I think the
22	original contract setup was what I was talking about
23	before. And that contract setup just kind of lends
24	itself to people having different goals and purpose.
25	MR. EVANS: I don't have much more, but

1	I've been informed we need to make a tape
2	change. So let's do that now.
3	THE WITNESS: Oh, okay.
4	THE VIDEOGRAPHER: This ends disk 1. The
5	time is 11:10 a.m. We are off the record.
6	(Recess in the proceedings from 11:10
7	to 11:12.)
8	THE VIDEOGRAPHER: Here begins disk number
9	2 in today's deposition of Dan Magnarelli. The
10	time is 11:12 a.m. We're back on the record.
11	Please proceed.
12	BY MR. EVANS:
13	Q Mr. Magnarelli, another another topic
14	that I see your name attached to in the documents is
15	something called a Bluefin 16.0 Construction & Site
16	Management Work Stream. Are you familiar with that?
17	A Yes.
18	Q In general, could you describe to me
19	what what this is?
20	A That is that the one that was done in
21	The Woodlands or is that the one that was done in
22	could I actually see the document so I know what I'm
23	talking about?
24	Q (Handing.)
25	MR. SCHALK: Actually, can I take a look?

1	Are you attaching this or just using it?
2	MR. EVANS: No. I just have a general
3	question.
4	MR. KEEL: Let's at least read the Bates
5	into the record.
6	MR. EVANS: Sure.
7	MR. SCHALK: Just go from there
8	(indicating). You can give that back.
9	THE WITNESS: Okay. Yeah, this was we
10	were in Columbia, actually, setting up the
11	construction piece of this Bluefin effort.
12	So this you know, we had broken down
13	the Bluefin. That was the project name before
14	we actually transitioned in January of 2016 to
15	where Westinghouse took over. And this was in
16	preparation of that takeover, how we were going
17	to transition and make improvements to the
18	construction segment of the project. And
19	that's why you'll see that these were the
20	things that were identified on here. This
21	construction site management, these were the
22	areas that we were actually trying to go make
23	improvements on.
24	So we had that discussion. It was a group
25	effort between Fluor and Westinghouse. And we

	Daniel Magnarelli
1	did have SCANA representation, as well. So
2	people were involved with this. I know Kyle
3	Young was down in Columbia. And I think there
4	was a gentleman that worked for Kyle I can't
5	remember his name offhand right now who
6	actually sat on this team.
7	BY MR. EVANS:
8	Q And so this is a program or plan that was
9	implemented?
10	A Yes. We went through and created the
11	functional area assessments for all of these. And
12	there were 31 functional area assessments
13	identified. We went through and actually executed
14	about 15 of those. And these were all included
15	these were included in all of that.
16	Q And do you believe that as a result of
17	implementing those plans, there was improved
18	productivity on the project?
19	A Yeah. I mean, a lot of these don't deal
20	with productivity per se, because you would have had
21	facilities, construction facilities and equipment,
22	you know. So it's not necessarily productivity
23	improvement.
24	But things like on the welding program,
25	there were a number of improvements made to the
	1

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1	welding program. Rigging and handling, we
2	simplified the processes of rigging and handling.
3	The subcontracting plan was also reviewed; and kind
4	of streamlined the subcontracting plan, as well.
5	So these areas were addressed. They were
6	contained in functional area assessments, written up
7	as to what the recommendations would be going
8	forward. And there were some of those
9	recommendations were actually carried out; some were
10	not.
11	Q Okay. What's an example of a
12	recommendation that was not carried out?
13	A So it would have been, like, the resource
14	plan. So the resource plan. So we had a resource
15	plan, but it wasn't loaded into the schedule fully.
16	Right? Like what we explained before, there was a
17	gap in that. And we wouldn't have carried that out
18	to completion.
19	So that was something we felt that wasn't
20	really worthwhile to spend the extra effort to get
21	that detail, so we would not have carried that back
22	end of that out.
23	Q And who decided that that would not have
24	been worth the effort?
25	A It's decided between the constructor,

	-
1	Westinghouse, and relayed to the owner, reported to
2	the owner that we were not going to go down that
3	path.
4	Q Did the owner react in any way to your
5	decision not to go down that path?
6	A I don't recall any negative feedback on
7	that, because the areas that we weren't going to
8	resource load, you know, weren't really the primary
9	areas of critical path representation for the
10	project.
11	Q May I?
12	A Yes (handing).
13	MR. KEEL: Can you just read those two
14	pages?
15	MR. EVANS: The witness was referring to a
16	document that has the following Bates number,
17	SCANA_RP0274251.
18	And I'm happy to make this an exhibit. I
19	just didn't have another copy of it.
20	MR. KEEL: Up to you.
21	BY MR. EVANS:
22	Q I just wanted to ask you a couple of terms
23	that were used in here. There's a phrase in here
24	called one-by-four planning. Are you familiar with
25	that?
1	

1	A Yes.
2	Q Define that for me.
3	A It's essentially kind of a fleetwide
4	approach. So we had four plants that were under
5	construction, two at Vogtle, two at Summer.
6	So, you know, if there was, say, an
7	engineering design change or if there was a
8	procurement strategy where we could gain the benefit
9	by, say, buying for four plants versus one, then,
10	you know, that would be an efficiency.
11	So it was one-by-four planning was the
12	title of the functional area, and it represented
13	that we would be doing one thing for all four
14	plants.
15	Q How was that a change from how you had
16	been managed before?
17	MR. SCHALK: Form.
18	MR. KEEL: Same.
19	THE WITNESS: Okay. So so I'll just
20	give you an example of work packages. Right?
21	Vogtle had their way of doing it. Summer had
22	their way of doing it. We skinnied that all
23	down to a way to do it.
24	So that's where, I think, both sites
25	gained some efficiency in the scaled-down work

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1package process.2BY MR. EVANS:3QAnd included in the goals in this Bluefin4project were the 3 percent a month completion rate;5is that correct?6ARight.7QAnd I believe you testified earlier, that8was never achieved?9ACorrect.10QI think the best you said you achieved was11about 1 and a half?12AThat's my recollection.13QOkay. And, of course, SCE&G was fully14aware of that level of progress, correct?15ACorrect.16QDid you have in your work on the17project, did you have any direct involvement with18folks from Toshiba?19AWe did. We had Toshiba representatives20for the turbine generator. And they they kind of21annexed a group that was responsible for the turbine22generator installation. So we had that group23on-site. They were at one point five, and then it24went to four. So there were four individuals from25Toshiba.		<u> </u>
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	23	on-site. They were at one point five, and then it
25 Toshiba.	24	went to four. So there were four individuals from
	25	Toshiba.

1	There was also some Toshiba folks that
2	were actually stationed down in Vogtle that would,
3	you know, review schedules and offer their input
4	into it. We also had one of the Toshiba personnel
5	that switched to Westinghouse eventually, but he was
6	actually part of the planning team, as well.
7	Q Were they on-site for the whole time that
8	you were there?
9	MR. SCHALK: Form.
10	THE WITNESS: Well, I think the Toshiba
11	folks came when it was necessary for the
12	turbine generator installation, but they were
13	there prior to that, too.
14	The Toshiba folks that I was talking about
15	planning, et cetera, those were assigned to the
16	Vogtle site. So they would come over here
17	periodically, but they were actually assigned
18	to Vogtle.
19	BY MR. EVANS:
20	Q Were Toshiba folks involved in the design
21	elements of the AP1000?
22	A From the turbine system side, yes.
23	Q For the turbine system side?
24	A Yeah.
25	MR. EVANS: Thank you, sir. That's all

1 the questions I have. 2 I will -- since we ended up discussing 3 this document, I will make this an exhibit. 4 5 (Bluefin 16.0 Construction & Site 6 Mgmt. Work Stream, SCANA_RP274251-274264, 7 marked Magnarelli Exhibit Number 1 for 8 identification.) 9 MR. COX: I never entered the other one, 10 11 so it should be Number 1. 12 MR. KEEL: Do you want both of these, 13 Jerry? 14 MR. EVANS: Just this one. 15 16 EXAMINATION 17 18 BY MR. KEEL: 19 Mr. Magnarelli, we met just before your 0 20 deposition, but, again, my name is Brandon Keel. I 21 represent SCE&G and SCANA in these matters. I want 22 to thank you for your time here. I just have a few 23 more questions for you. Okay? 24 Sure. А 25 So I believe you testified in response to 0

Daniel Magnarelli		
1	Mr. Cox's questioning that you first started on the	
2	Summer project in March of 2013; is that right?	
3	A Correct.	
4	Q And you stayed through the project	
5	until through Westinghouse's bankruptcy filing;	
6	is that right?	
7	MR. SCHALK: Form.	
8	THE WITNESS: No, longer than that.	
9	Actually, the bankruptcy filing was in March.	
10	The shutdown was the end of July. And then I	
11	stayed there to demobilize the site, which was	
12	extended into 2018.	
13	BY MR. KEEL:	
14	Q Okay. And throughout your time working on	
15	the project, did you always perform your job	
16	responsibilities to the best of your ability?	
17	A Yes.	
18	Q Throughout your time working on the	
19	project, did you always communicate information	
20	honestly and completely?	
21	A Yes.	
22	Q And you've talked about various schedules	
23	that you were aware of throughout the time that you	
24	were working on the project.	
25	Did you always believe, at the time that	

1	those schedules were proposed, that they were
2	achievable?
3	A Yes; hard, but achievable.
4	Q Did you always believe that Westinghouse
5	was committed to doing everything it could to meet
6	those scheduling projections?
7	A Yes.
8	Q And to the extent that there were delays
9	in the project for various reasons, Westinghouse was
10	committed to various mitigation strategies in an
11	effort to meet the projected schedules, correct?
12	A Correct.
13	Q You are aware that the project was being
14	billed pursuant to an Engineering, Procurement and
15	Construction Contract, correct?
16	A Uh-huh.
17	Q Yes?
18	A Yes.
19	Q Sorry. She can't take down "uh-huhs."
20	A Yeah. No shakes.
21	Q And is it your understanding that under
22	the terms of that agreement, the consortium was
23	solely responsible for all means of construction?
24	MR. SCHALK: Form.
25	THE WITNESS: Yes. There was some scope

	Daniel Magnarelli
1	of work that the owner decided to do on their
2	own. Right? But other than those owner scopes
3	of work, it was up to the consortium to perform
4	the remainder of the project.
5	BY MR. KEEL:
6	Q Do you know what specific scopes of work
7	the owner decided to do on its own?
8	A I'm thinking, like, the OWS system, they
9	had some involvement for the treatment plant that
10	they were using their own folks with. There was a
11	couple of small segments that they had carved out
12	that they would continue with.
13	Q But for the bulk of the project, your
14	understanding is that the consortium was responsible
15	for
16	A Yes.
17	Q construction?
18	A Yes.
19	Q And the consortium was also responsible
20	for procuring the materials for construction?
21	A Correct.
22	Q I want to talk a little bit about
23	Westinghouse for a minute. You've been with
24	Westinghouse now for how long?
25	A Since March 1st, 2013.

Daniel Magnarelli

1	Q And how would you describe Westinghouse's
2	role in the nuclear industry historically?
3	A Historically, they they're the brand
4	name, so they've got a history of successful
5	operations and supply of equipment and engineering
6	backup to all that equipment. So it's a pretty
7	well-known and respected name in the industry.
8	Q You understand that is it your
9	understanding that Westinghouse is considered the
10	global leader in nuclear technology fields and
11	services?
12	A Correct.
13	Q And Westinghouse is a leading supplier of
14	nuclear plant products and technologies to utilities
15	throughout the world; is that correct?
16	A Correct.
17	Q And from my understanding, Westinghouse
18	supplied the world's first commercial pressurized
19	water reactor; is that right?
20	A Correct.
21	Q And today Westinghouse technology is the
22	basis for approximately one half of the world's
23	operating nuclear plants; is that correct?
24	A I don't know that offhand, but it sounds
25	right.

1	Q And Westinghouse designed the AP1000
2	nuclear power plants that we have been talking about
3	here today; is that right?
4	A Correct.
5	Q Is it your understanding that the AP1000
6	is the safest and most economical nuclear power
7	plant available in the worldwide commercial
8	marketplace today?
9	A That's my opinion.
10	Q And I assume Westinghouse spent years
11	developing the AP1000?
12	A True.
13	Q How long, do you know how long did the
14	company spend developing the AP1000 design?
15	MR. COX: Object to the form.
16	THE WITNESS: To the extent I know, I just
17	know that the development has been 15, 20 years
18	on this AP1000 project.
19	BY MR. KEEL:
20	Q And the AP1000 design was certified by the
21	U.S. Nuclear Regulatory Commission?
22	A Correct.
23	Q And the design works, doesn't it?
24	A It does. There's operating plants in
25	China.

	Daniel Magnarelli
1	Q I believe I saw a press release today that
2	the first AP1000 is now in commercial operation in
3	China; is that right?
4	A Correct.
5	Q And how many AP1000 plants are being built
6	around the world today?
7	A So there's two at Vogtle, and then it's
8	the China plants.
9	Q Is Westinghouse proposing to build other
10	AP1000s in different areas around the world?
11	A We are.
12	Q Do you know how many other AP1000 plants
13	Westinghouse is planning to build?
14	A It's just you know, we're in the
15	proposal stage, the bidding phase; so, you know,
16	that's open-ended.
17	Q Would you agree with me that nobody knows
18	more about the AP1000 than Westinghouse?
19	A Correct.
20	Q And would you agree that that has been
21	true since the day that the AP1000 design was first
22	created?
23	A I believe that's true, yes.
24	Q At the time of the EPC amendments in
25	October 2015, did you understand that Westinghouse

	Daniel Magnarelli
1	was committing to build the plants pursuant to new
2	guaranteed substantial completion dates?
3	A Correct.
4	Q Was it your understanding that
5	Westinghouse was committed at that time to building
6	those plants in accordance with that schedule?
7	A Correct.
8	Q Do you believe that Westinghouse did
9	everything it could to meet that schedule?
10	A Yes, we tried. Yes.
11	Q And then ultimately, Westinghouse decided
12	to file bankruptcy, right?
13	A Uh-huh.
14	Q Yes?
15	A Yes.
16	Q Do you know what changed, from the time of
17	the EPC amendment until the time of the filing of
18	bankruptcy, that caused Westinghouse to conclude
19	that it no longer wanted to try to fulfill the
20	obligations of the contract?
21	MR. SCHALK: Form.
22	THE WITNESS: I can't answer that.
23	BY MR. KEEL:
24	Q You were not involved in any discussions
25	about

	Daniel Magnarelli
1	A No, I wasn't.
2	Q why
3	MR. SCHALK: Let him just finish.
4	BY MR. KEEL:
5	Q You were not involved in any discussions
б	about why Westinghouse was seeking bankruptcy
7	protection at the time it did?
8	A I wasn't involved in that.
9	Q And you had no expectation that
10	Westinghouse was going to seek bankruptcy protection
11	prior to your being informed shortly before the
12	filing; is that fair?
13	A That's correct.
14	Q You mentioned certain interactions that
15	you were involved in with the ORS about the status
16	of the project.
17	A Uh-huh.
18	Q Correct?
19	A True.
20	Q I believe you said that there were monthly
21	meetings with the ORS and and what was the other?
22	A There were several specific meetings we
23	had with them to discuss the results of the
24	functional area assessments.
25	Q I know you didn't talk about all or you

Daniel Magnarel	li	
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1	didn't attend all of the monthly meetings with the
2	ORS, but do you know what information was conveyed
3	to the ORS during those meetings from the ones you
4	did attend?
5	A Yeah. From the ones I did attend, it was

⁶ basically the status of the plant, and then the, you
7 know, the construction progress.

But then it was also to address any issues that were raised by ORS so that via an open discussion between ORS and site management as to, you know, any issues or concerns that ORS had, you know, going forward.

Q And so those discussions with the ORS about the status of the project, would those disclose performance factors and things of that nature?

17 Yeah -- yes. I believe we would have Α 18 talked about it if it was specifically asked. 19 However, the -- you know, the data that, on the 20 performance and percent complete and all that, that 21 was typically reserved for the project review 22 meeting, which was once a month. And I believe the 23 ORS was invited. You know, my understanding is they 24 were invited; so that data would have been available 25 to them.

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Daniel	Magnarel	li

1	Q Okay. Your understanding is the same data
2	
	for the project review meetings was available to the
3	ORS; is that right?
4	A Uh-huh. That's correct.
5	Q And you also mentioned one-off
6	conversations you may have had with ORS personnel
7	on-site. How often was the ORS on-site?
8	A It varied, you know. So we would see one,
9	potentially two representatives from the ORS on-site
10	on a pretty frequent basis, maybe one or two days a
11	week. But the the actual presence on-site every
12	day, I didn't observe that, so I can't I can't
13	say that they were there all the time.
14	Q But at least on a weekly basis, from
15	your
16	A Yes.
17	Q observations?
18	A Yes. You know, they were kind of camped
19	out at the entrance to the plant site. So I you
20	know, unless they were actually walking by up at the
21	construction site, I wouldn't have I wouldn't
22	have interacted.
23	Q To the extent that you provided any
24	information to the ORS about the project, did you
25	always do so honestly and completely?

	Daniel Magnarelli
1	A Correct.
2	Q Was the information that was provided to
3	the ORS about the status of the project consistent
4	with what was provided to the owners?
5	A Yes.
6	Q Do you recall or scratch that.
7	Were you present at a meeting with the
8	ORS, in August of 2016, that related to a PSC
9	proceeding for the election of the fixed price
10	option?
11	A I was not present.
12	Q Did you ever have any interaction with
13	Gary Jones from the ORS?
14	A Gary Jones. Maybe, but I don't recognize
15	the name.
16	Q Fair enough.
17	I want to talk a little bit about the
18	process that went into developing schedules for the
19	project. How would you describe the amount of
20	effort that the consortium put in to developing the
21	schedules for the project?
22	A Quite a bit of effort. Quite a bit of
23	effort. And I think it was actually joint because
24	the input not only came from the consortium side,
25	but it was also being looked at from the owners'

1	side, as well. So I think there was a lot of mutual
2	input into the schedule itself.
3	But from a resource and, you know,
4	workload effort side, it was quite a bit of work
5	that was required to generate and maintain the
6	schedule.
7	Q Do you know, roughly, how many people from
8	the consortium side were involved in scheduling for
9	the project?
10	A I wouldn't guess, but that's a question
11	for Terry because he was manager of the group, and
12	there was a lot of people.
13	Q Do you know, roughly, how long how much
14	time it takes to put together a reliable schedule
15	for a nuclear project of this size?
16	MR. SCHALK: Form.
17	THE WITNESS: In my opinion, just it
18	evolves. So it's a long, lengthy process to
19	get it to where you actually have believe
20	that you have created an efficient schedule and
21	a plan to execute the project. So it is a
22	lengthy process to get to that point.
23	BY MR. KEEL:
24	Q Would that process require dozens of
25	people?

1 Α It would. 2 0 Would it be years or months? How long are 3 we talking? 4 Α The initial would be months. But that gets refined over the period going forward. 5 6 So, I mean, the schedule develops as you 7 get closer to, you know, your construction start 8 And to evolve that schedule over time, you date. 9 know, a lot of these projects are laid out in the 10 bidding phase with a -- a schedule that will morph 11 over time to become extremely detailed before that 12 construction period actually starts. 13 So some of these projects go months -- I 14 mean, the development goes months; some of these are 15 years. 16 Now, the same sort of questions about the 0 17 estimates for how much cost it would -- what the 18 cost would be to complete the project. Could you 19 describe, roughly, how much effort or resources go 20 into that analysis? 21 From the ETC side? Α 22 Ο Yes. 23 Estimate to complete. Α 24 Yeah, so there was -- there was an 25 abundance of people involved in that, as well. Ι

Daniel Magnarelli

1 2 3	was involved from offering up my input from my group, and then reviewing some of the items that had been compiled from other groups. But as far as looking at the resources that were required to
	been compiled from other groups. But as far as
3	
	looking at the resources that were required to
4	
5	produce an ETC, it's it's scores of people.
6	Q And, roughly, how much time, using scores
7	of people, would it take to develop a reliable ETC
8	for a project of this scope?
9	A Yeah. I don't recall the exact time frame
10	that we generated the ETC in. I can't recall. I
11	just don't have a recollection of that.
12	Q But would it be months' worth of work?
13	A Months, yes.
14	Q Based on your understanding, did the
15	schedules that were proposed for this project along
16	the way always reflect the best available
17	information about the project?
18	A Yes.
19	Q Based on your understanding, did the
20	estimates to complete along the way always reflect
21	the best available information, a point you
22	understood at the time?
23	A Yes.
24	Q I think Mr. Cox asked you some questions
25	about your involvement, whether you were involved in
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1	providing information to SCE&G or the owners after
2	Westinghouse's bankruptcy filing.
3	Do you recall those questions?
4	A Yes. So after the March timeframe, right,
5	up until the end of July, when the project was shut
6	down? Uh-huh.
7	MR. KEEL: Can you mark this as 2.
8	
9	(Motion of Debtors Pursuant to
10	11 U.S.C. § 105(a) For Entry of an Order
11	Approving Interim Assessment Agreements
12	marked Magnarelli Exhibit Number 2 for
13	identification.)
14	
15	MR. KEEL: I have one more (handing). You
16	can feel free to take a minute, if you want.
17	MR. SCHALK: Yeah. I'll see what kind of
18	questions you have.
19	MR. KEEL: Sure.
20	MR. SCHALK: If we need to
21	MR. KEEL: If at any point you need to, no
22	problem.
23	BY MR. KEEL:
24	Q Mr. Allen or Magnarelli I
25	apologize I'm showing you what has been marked as

1 Exhibit Number 2 for your deposition. Do you 2 recognize this? 3 А It's the bankruptcy filing, yes. 4 0 It's a -- it's a motion in the bankruptcy 5 filing to approve entry into interim assessment 6 agreements. 7 Do you recall Westinghouse entering into 8 interim assessment agreements with the owners of 9 Vogtle and VCS? 10 Α Yes. 11 And if you could turn -- do you see the 0 12 page numbers at the top of the document? It's page 13 X of 41. 14 Uh-huh. Α 15 If you could turn to page 13 of 41 for me, 0 16 please. 17 Α (Witness complies with request.) 18 Now, this Exhibit Number 1 to the document 0 19 you're looking at now is an interim assessment 20 agreement, dated March 28, 2017, between SCE&G, 21 Santee Cooper, and Westinghouse Electric Company. 22 Do you see that at the top? 23 Α Yes. 24 And the second paragraph underneath the 0 background, the second "whereas" clause says: 25

	Damer Wagnarem
1	"Whereas in order to perform its obligations under
2	the EPC, the Debtors have entered into various
3	agreements with subcontractors and material and
4	equipment suppliers and other counterparties."
5	Do you see that?
6	A Yes.
7	Q Is that your understanding that
8	Westinghouse had contracted with various different
9	subcontractors and material suppliers for the V.C.
10	Summer project?
11	A Correct.
12	Q If you turn to the next page, at the
13	bottom, the very last line on page 14 of 41 says:
14	"Accordingly, the Parties, each intending to be
15	legally bound hereby, agree as follows." And then
16	there's a series of numbered paragraphs.
17	Do you see that, Mr. Magnarelli?
18	A Yes.
19	Q And I just want to direct your attention
20	to a couple of these paragraphs.
21	A Okay.
22	Q Turning to paragraph 4 on page 15, it
23	says: "During the Interim Assessment Period, the
24	V.C. Summer owners shall have the right to consult
25	with Fluor to determine which Subcontractors and/or
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	Damer Wagnaren
1	Vendors are necessary to perform work on the V.C.
2	Summer Project during the Interim Assessment
3	Period."
4	Do you see that?
5	A Yes.
6	Q Is it your understanding that that is a
7	right that the owners did not have prior to entry of
8	this agreement?
9	MR. SCHALK: Object to form.
10	THE WITNESS: I don't think I don't
11	think they were ever prohibited from discussing
12	this with Fluor. So I have no knowledge of
13	that.
14	BY MR. KEEL:
15	Q Was it your understanding that SCE&G could
16	determine which subcontractors and vendors were
17	necessary for the project during the course of the
18	project?
19	MR. SCHALK: Form.
20	THE WITNESS: I have no knowledge what
21	SCE&G was thinking at the time, so
22	BY MR. KEEL:
23	Q I'm not asking what they were thinking,
24	just: Was it your understanding that SCE&G could
25	dictate which subcontractors were necessary or
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1	not
2	MR. SCHALK: Form.
3	BY MR. KEEL:
4	Q during the course of the project?
5	A That was not my understanding, but I
6	believe they could object to somebody that was
7	proposed by the constructor.
8	Q Okay. And then if you turn to page 19 of
9	41, there's a paragraph 15 at the bottom.
10	A Uh-huh. Yes.
11	Q It says: "During the Interim Assessment
12	Period, the Debtors shall use commercially
13	reasonable efforts to provide information as
14	reasonably requested by the V.C. Summer Owners as is
15	necessary to perform the EPC, investigate the
16	completion status of the V.C. Summer Project, and
17	the financing and/or funding of the V.C. Summer
18	Project, including but not limited to the
19	following."
20	And then there's a list of the specific
21	types of information that the debtors were required
22	to make reasonable efforts to make available to the
23	owners. Do you see that?
24	A Uh-huh.
25	Q Yes?

1	A Yes.
2	Q Okay. And I'm paraphrasing, but in
3	general, a lot of these categories refer to the
4	specifics of agreements with subcontractors and
5	vendors for the project.
6	Do you see that?
7	MR. SCHALK: Take the time to read it.
8	THE WITNESS: (Witness complies with
9	request.) Yes.
10	BY MR. KEEL:
11	Q Now, is it your do you know one way or
12	the other whether SCE&G had a right to access this
13	list of information prior to entry of this interim
14	assessment agreement?
15	MR. SCHALK: Form.
16	THE WITNESS: I mean, there's a lot of
17	stuff here that I can't answer for sure yes or
18	no, that SCE&G had access to it or not.
19	BY MR. KEEL:
20	Q Was it common practice during the course
21	of the project, prior to the bankruptcy, to provide
22	this type of information to the owners?
23	MR. SCHALK: Form; asked and answered.
24	THE WITNESS: All right. So in my
25	estimation, all of this was provided in our

reporting requirements to SCE&G on a -- it could have been on a monthly basis, at a minimum.

So we would have had, you know -- you probably wouldn't have seen the contracts per se for some of the fixed price aspects prior to. But, I mean, we could -- we'd be discussing each one of these bullets in detail about what was provided and what wasn't.

10So I really can't answer in a blanket11statement one way or the other.

12 BY MR. KEEL:

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13 Sure. And I understand the consortium Ο 14 provided monthly updates on the status of the 15 project and provided various information to the 16 I'm asking for some of these specific owners. 17 categories, like copies of all contracts with 18 subcontractors, access to accounting related to 19 subcontractors and vendors. In those specific 20 things, were those the type of information reported 21 to the owners during the course of the project? 22 MR. SCHALK: Form. And just to be clear, 23 you're asking on just those two -- two 24 examples? 25 MR. KEEL: Yes.

Daniel Magnarelli	
1	THE WITNESS: I can't answer for all cases
2	on these.
3	BY MR. KEEL:
4	Q That's fine. I'm only asking what you
5	know.
6	A Right.
7	Q One other question. The second bullet
8	point down on that list says: "Information
9	presented by Fluor regarding EPC cost at completion
10	and any project schedule documentation."
11	Do you see that?
12	A Yes.
13	Q Are you aware of Fluor doing an EPC cost
14	at completion prior to March 29th, 2017?
15	A Well, they would have provided a cost
16	estimate, you know, based on, you know, projected
17	hours worked; so their cost estimate would have been
18	based on that. And that information, from a direct
19	dollar standpoint, would have probably that, I
20	believe, was related to SCANA.
21	But as far as all across the board,
22	subcontractors and vendors, and more than just
23	Fluor, I can't answer that.
24	Q Do you know when Fluor put together an EPC
25	cost at completion?

Daniel Magnarelli

1	A They would have supplied that
2	information they would have supplied that
3	information as part of the ETC generation from
4	Westinghouse. So we had the Westinghouse portion of
5	the ETC, and then the Fluor portion of the ETC.
б	Q And do you know, roughly, when that
7	occurred?
8	A During the ETC preparation and completion,
9	which was I can't recall the month it was
10	completed.
11	Q Sometime in would it be fall of 2016?
12	A I can't remember. I can't remember.
13	Q It would have been in 2016, though?
14	A That's my belief, yes.
15	Q You were asked by Mr. Cox a few
16	questions you can set that aside. I don't have
17	any more questions on that.
18	A Okay.
19	Q Mr. Cox asked you various questions about
20	Bechtel. Do you recall those questions?
21	A Uh-huh.
22	Q And I believe it was your testimony that
23	you never saw any written engagement document for
24	Bechtel work; is that fair?
25	A Correct.

1	Q Were you aware of any agreement between
2	the consortium and the owners regarding Bechtel's
3	work?
4	A I believe we had something in place that
5	allowed us to provide support to Bechtel for the
6	assessment. I can't say definitively that there was
7	something, but I know that we had to have protocol
8	and working rules for us to provide support for
9	them.
10	Q But do you recall ever seeing that
11	document, that agreement between the owners and the
12	consortium regarding Bechtel's work?
13	MR. SCHALK: Form.
14	THE WITNESS: It's fuzzy. No, I I
15	can't really state definitively.
16	BY MR. KEEL:
17	Q And I believe your testimony and
18	correct me if I'm wrong was that you don't have
19	any personal knowledge about what Bechtel's scope of
20	work was; is that fair?
21	A Correct.
22	Q And you have no personal knowledge about
23	what Bechtel did for their assessment of the
24	project?
25	A Correct.

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Damer	Magnate	ш

1	Q And you have no personal knowledge about
2	what Bechtel's conclusions were; is that correct?
3	A Well, I read the report when it became
4	public, so
5	Q Prior to the public release of the report.
6	A Right.
7	MR. KEEL: If I could just have five
8	minutes, and I'll wrap up.
9	MR. SCHALK: Sure.
10	THE VIDEOGRAPHER: The time is 11:54 a.m.
11	We are off the record.
12	(Recess in the proceedings from 11:54
13	to 12:04.)
14	THE VIDEOGRAPHER: The time is 12:04 p.m.
15	We are back on the record. Please proceed.
16	BY MR. KEEL:
17	Q Mr. Magnarelli, I just have a couple
18	questions left for you.
19	I believe you testified, in response to
20	Mr. Cox's questioning, that you believe that SCE&G
21	did what it had to do to manage this project. Do
22	you recall that?
23	A Right. I think my words were that, you
24	know, SCE&G had their own plan on how to manage the
25	project, so yes.

1	Q Okay. Is it based on your testimony
2	here today, is it fair to say that you don't blame
3	SCE&G for the failure of this project?
4	MR. SCHALK: Form.
5	MR. COX: Object to the form.
б	THE WITNESS: I I think there's enough
7	to go around, that all parties have contributed
8	to the overall demise of the project. So
9	that's just my personal opinion.
10	BY MR. KEEL:
11	Q And that would include Westinghouse?
12	MR. SCHALK: Form.
13	THE WITNESS: Westinghouse could have done
14	some things better, yes.
15	BY MR. KEEL:
16	Q Based on your experience on the project,
17	do you believe that the parties involved acted in
18	good faith in an effort to make this project a
19	success?
20	A Yes, I thought everybody was working
21	toward a common goal to get the project built.
22	Q And that was throughout the time
23	throughout the time of the project; is that fair?
24	A Correct.
25	MR. KEEL: I don't have any other

1 questions. Thank you for your time this 2 morning. 3 4 EXAMINATION 5 6 BY MR. COX: 7 Mr. Magnarelli, I just had a couple 0 8 follow-up questions. 9 Did you personally invite the ORS to the 10 monthly progress review meetings? 11 Α I didn't personally invite. Mу 12 recollection is that they had attended several of 13 the meetings, and I thought they were on the invite 14 list. We didn't send out the invite list. It was 15 controlled by SCANA. 16 Okay. And regarding the scope of the 0 17 Bechtel assessment, were you told by Mr. Churchman 18 that part of the purpose of the Bechtel assessment 19 was to assess the schedule? 20 MR. KEEL: Object to the form; asked and 21 answered. 22 I didn't know what No. THE WITNESS: 23 Bechtel was there to perform an assessment on, 24 so we weren't privy to what the contract 25 requirements were between Bechtel and SCANA.

1	BY MR. COX:
2	Q Did Mr. Churchman tell you what the
3	what was being assessed on the project by Bechtel?
4	MR. SCHALK: Asked and answered.
5	MR. KEEL: Same.
б	THE WITNESS: No. What we had was an
7	agreement to support Bechtel in their efforts
8	to conduct an assessment. Okay. We didn't
9	know what the details of the assessment that
10	they were to conduct were.
11	MR. COX: Understood.
12	Okay. No further questions. Thank you,
13	Mr. Magnarelli.
14	MR. SCHALK: This is Mike Schalk. We are
15	going to make a request to hold this transcript
16	as confidential under the order that's involved
17	in this case.
18	MR. COX: The whole transcript?
19	MR. SCHALK: Yes, Mr. Magnarelli's
20	testimony.
21	MR. COX: Will you be reviewing it later
22	to identify specific portions that are
23	confidential?
24	MR. SCHALK: Yes.
25	MR. COX: Do you know when you will finish

1	that?
2	MR. SCHALK: No. We'll communicate with
3	you.
4	THE VIDEOGRAPHER: Are there any further
5	questions?
б	Hearing nothing further, this concludes
7	the deposition. The time is 12:08 p.m. We are
8	off the record.
9	
10	(Witness excused.)
11	
12	(Deposition was concluded at 12:08 p.m.)
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1			SIGNATURE OF DEPONENT		
2		I, th	e undersigned, DANIEL MAGNAREI	LI,	do
3	hereby c	ertify	that I have read the foregoing	9	
4	depositi	on tran	script and find it to be a tru	ie an	d
5	accurate	transc	ription of my testimony, with	the	
6	following	g corre	ctions, if any:		
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	Daniel Magnarelli
1	CERTIFICATE OF REPORTER
2	
3	I, Cynthia First, Registered Professional Reporter, do hereby certify:
4	That the foregoing deposition was taken before me on the date and at the time and location stated on page 1 of this transcript; that the
5	deponent was duly sworn to testify to the truth, the whole truth and nothing but the truth; that the
6	testimony of the deponent and all objections made at the time of the examination were recorded
7	stenographically by me and were thereafter transcribed; that the foregoing deposition as typed
8	is a true, accurate and complete record of the testimony of the deponent and of all objections made
9	at the time of the examination to the best of my ability.
10	I further certify that I am neither
11	related to nor counsel for any party to the cause pending or interested in the events thereof.
12	
13	
14	CYNTHIA FIRST
15	Registered Professional Reporter Certified Realtime Reporter
16	Certified Realtime Reporter
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Certificate of Notary Public

1 Anthony Blanchf	ుండా, Notary Public for the state of
Pennsylvania	_, do hereby certify that the deponent,
Pon Magnavelli	, was duly sworn to testify to

the truth, the whole truth, and nothing but the truth.

Witness my hand this 12th (day) day of October (month), 2018 (year) at Pictragallo 38th Floor One Oxford (location).

Signature:	anthoney Blanch Flower	
Print Name:	Anthony Blanch Flower	
State:	Pennsylvania	
County of:	Allegheny	
My Commission expires: May MEn 2019		