A-108

GPCIT-108

DOCKETED

'95 JUL 27 P4:28

OFFICE OF SECRETARY DOCKETING & SERVICE BRANCH .

PROFFERED TO THE PARTIES

BY

GEORGIA POWER COMPANY

(TROUTMAN SANDERS)

FEBRUARY 28, 1994

NUCLEAR REGULATORY COMMISSION GPC Docket No. 50-424/425-OLA-3 EXHIBIT NO. FF-108 In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2 Staff Applicant Intervenor Other Identified Received Reporter KHW Date Witness Molbaugh

9508110279 950712 PDR ADOCK 05000424

1 TAPE NO. 42, SIDE 1 2 VOICE: This? 3 VOICE: Uh-huh. 4 VOICE: Off the chart, is that the (inaudible) reductions in a depressorization (phonetic) from what to 5 6 what? rouge 7 It didn't change much over a (inaudible). VOICE: 8 It's from 200 to 80. \$5. 9 VOICE: Uh-huh. VOICE: Or from 100 to 90. 8% 10 043 VOICE: Yeah, 200 to 80 is the one I looked at. 11 ty VOICE: Okay. 12 13 VOICE: Okay. 14 VOICE: Un-huh. AUB VOICE: But if you looked at it for 120 degree 15 drop, it was almost 30 degrees for a look (inaudible) --16 17 VCICE: Okay. 18 VOICE: (Inaudible) pressure. Am VOICE: Yeah, the same PSI pressure drop would 19 yield about the same --20 21 VOICE: The one I looked at was --22 VOICE: (Continuing) -- depression. 23 VOICE: (Continuing) -- 200. 24 VOICE: Okay. 25 VOICE: I don't know. I think -- my gut feeling

4-11 70

1 VOICE: (Inaudible). 2 VOICE: We'll see how they mean that. 3 VOICE: See you later. 4 VOICE: Bye Ken. 5 VOICE: Bye. (Pause.) (BREAK IN TAPING) 6 Am 7 VATER: There was another item in that letter HAIRSTON that Harrison (phonetic) sent to NRC that I was wondering 8 9 about. They sent that thing up, and I don't really think 10 anybody down here got to look at it until yesterday. 11 (Inaudible) -- the letter that stands, "Please 12 F list the hold you have on us." 13 14 Voict: That's for the calendar. LEE MANSFIELD (LM) OKay. 15 AM: I looked at one item on it, relative to a 16 statement made by the instrument air and the diesel, one of 17 18 them. THERE THAT AND There was another item on the outege said, "Since 19 the event on the 20th, we have started the A machine 19 20 times, and we have started the & machine 18 times, all 21 22 successfully." ALM: Now, do you remember enough about the start? 23 OF THOSE Ary : I don't believe that all this starts were 24 25 successful.

19 THEM HAD PROBLEMS. 1 Some of those fell hossible. & ponds Martirla ware: I don't either, but it a sensel to how 2 D. Hines they worded it. Now, we may well have had 19 successful starts. 4 Almy VORCE: 5 Well, that's my question. Monthield voice: We may have had 22 attempts. 6 Weicht But we may -- yeah. There were --7 kochows -Concherry (phonetic) would know. 8 BECAUSE A the failed starts, that I remember, were on p 9 train only. 10 A train never failed to start, but B train did --11 12 VOICE: B train ---LM Aby A WOICE: (Continuing) -- failed to start is the 13 wrong term. In each case, it was the start of ANP 14 ALM: It started, is trip, and then so we had some cases 15 where it started and wouldn't trip, so that's another kind 16 17 of problem here. Mue, Sill WORCE: It started and wouldn't trip, I don't 18 19 know about that. 20 There was -- LINAUDIBLE] VOICE: Mussof. HOSCE: 21 But on the B machine, I think it tripped twice when we were trying to get B back up; remember? 22 23 ALM VOICE: Yop. Mays. voice: 24 We were concentrating on B. Paul would 25 know.

	20
	1 That would be in that log that came through.
	2 ALM MOTOF: Let me ask him.
	3 LM WOICE: You know, he should be able to count up
	4 the number of starts.
1	5 Am worce: You know, the problem is that when
•	6 corporate sends, the weather like that out, and that's too
1	7 iong to take the tind of responsibility for the history and
8	the contents THAT AREA
5	
	Bown here, they're sticking their necks out.
10	May field worce: Well, what's going to happen is that
13	they're going to come to us, somebody is going to come to us
12	and ask us to show them about the (incudible), and we're
13	going to go, (ineudible).
14	VOICE: Well; we may have had 19. I don't know.
15	VOICE: Yeah.
16	(Inducible) see about this.
17	VOICE: A HEIL LOOKE GOOD Enough to-
18	(inaudible).
19	ALM worce: (Inaudible) down there. I'll get it.
20	Am work: A I don't know if you had a chance to see
21	the letter that Harrison sent out. HAIRSTON
22	PAUL KOCHERY TOICE: UN (inaudible).
23	
24	ALM: DO YOU HAVE & COPY OF THAT? PK: YEAH, RIGHT HERE. 2 Hings on the f KM WOICE: I was booking attimadible) going out,
25	and I think that's part of the (inaudible) (INAUDIBLE) AND
	(Innerical) Hist

THAT'S what I meant this morning on the 1 2 air. 3 Moles: But the other item, I -- You didn't see that letterx AT THE SITE HERE? 4 It's a sight here. 5 SAW IT THIS MORNING. I just tineudible) PK NOICE: 6 7 ALM MOTCE: Yeah, I know. PK DOICE: I dian's see - this is not convert you know. 8 WELL THAT'S WHAT I --9 ALM WOICE: , Well, okay. A -vorer (If you've got anything else in it that 10 you don't think is correct, please let me know. 11 PK VOICE: 12 Okay. Any worce: I was looking at two things. I was 13 looking at number four. 14 PK NOTCE: A DIE here 15 And we had our meeting on that this 16 17 morning. Kochen Y SOUCE: 18 Right. An more: I was also looking though at number G, 19 okay? AND, A 20 CI wanted to talk to you, as to whether you thought 21 22 that was correct. ALM (READING): "Since March 23 (Anaudibie) mesked the 20th. kahiny water: 24 Uh-huh. Am (READING) Am The one A diesel has been started 18 25

22 times, and the one \mathcal{B} diesel has been started 19 times. 1 No 2 failures or problems have occurred during any of these 3 starts." 4 Now, if that's -- if those 18 and 19 starts include all of the starts since the 20th, I know we had 5 6 problems and failures. Now, if those 19 -- if we started the machines a 7 total of 25 times, and those 18 and 19 are the last 18 and 8 19, and the failures, as I recall, may be one of the first 9 10 set, you know, maybe this is still a true statement. 11 But do you have a data log or something that would show, all these starts? 12 BECAUSE A I'm afraid we could have another problem with this 13 14 statement here. 15 Do you ever -- what do you have that would show 16 all the starts? 17 Does Kenny -- Kenny's log? kocheny Notes: 18 No. ALM worce: Does it cover all of that? 19 PK mozes: 19 -- you didn't have a (inaudible), EINAUDIDLEJ 20 ALM TOTCE: Well, we certainly had problems, ckay? 21 22 I mean, if I recall, we had the machine tripped, 23 the B machine tripped. kochery not on (INAUDIBLE) THE B mechine tripped kochery miles (inaudible) took then before 24 25 that.

1	ALM	VOICE:	But this says since the 20th.
2	PK	VOICE:	Um.
3			See in that first week
4	PK	VOICE:	THE TH A 20 days, yes.
5	ALM	VOICE:	The B machine has
6	PK	VOICE:	(Inaudible).
7	ALM	VOICE:	And then there was another event, where -
8	-		
9	PK	VOICE:	(Inaudible) temperature, we have a TRIP
10	(inaudibl	e).	
11	ALM	VOICE:	Then there's also the occasion where
12	PK	VOICE:	Two times
13	ALM	VOICE:	(Continuing) they made the trip,
14	right?		
15	РК	-vodce:	No, that's on the just on the sense
WE 16	NERE NOT	THE	e. togic tost n
17	ALM	VOICE :	Okay, but there was some kind of problem
18	like that	. I rem	ember.
19	PK	VOICE:	Yeah, but it's not any running time, with
20	the tineur		
21		That's	the the only time when the trip is a
22	part of th	ne, you	know, the functional copy it tripped on the
23		High te	mperatures (incudible).
24		VOICE:	okay. B train tripped
25	PK	WOLCE:	And we (inaudible), it, and I think

1 there's one more time it tripped. ALM NOTCE: Uh-huh. 2 habony source: (Inaudible). B train tripped. 3 A-M NOICE: Well, do you get the log, you know, I 4 need --5 17'5 PK WOICE: The B trip. This is part of the 6 work adau (insudible), to run the functional test of the diesel, but 7 8 for --Am worce: Yeah, but I mean, does somebody have all 9 the starts since the 20th, summarized someplace, so that I 10 can compare them against what we've said in this letter, to 11 make sure we haven't said something that, was untrue. 12 PK WOICE: That is not -- I do not -- Nobody asked 13 USX EINAUDIBLET. 14 My MOICE: Hey, nobody asked us -- anybody down here 15 at the site. 16 PK -VOICE: Well, I ---17 An your You know, to look at what got sent in. 18 PK worce: I didn't ---19 Am voice: You know, there was an initial draft that 20 showed up, I think, on Friday of last week, BUT 21 It's different than this draft. It doesn't have 22 23 items one through five. 24 PK TOICE: (Inaudible). ALM -MOICE: (Inaudible) -- starting all over. 25 One

	B		25
1	pean		B
2	PK =	VOICE :	Okay, this is one been. From starting,
3	this is (i	naudible).
4		This is	prior to the outage of the beeper, okay?
5	ALM	VOICE:	Yeah.
6	PK	VOICE:	(Inaudible) one beeper.
7		VOICE:	Well, we gotta start okay, on the 204, THE
8	20TH, THE A 21st, corr	ect?	
9	PK	VOICE:	Yes.
10	ALMS	voice:	Okay, one, two, three, what stopped?
11	PK	VOICE:	You know, manually stopped.
12	ALM	VOICE:	Oh, is each one of these times they
13	start?		
14	kochay	VOICE:	Okay, this is the failed to start.
15	An	TOTCE:	That's an attempt and a failure?
16	PK	VOICE:	That's right.
17	ALM	VOICE:	Another attempt and a failure.
18	PKS	POICE:	That's right.
19	ALMA	POZCE :	Okay, that's a start?
20	PK	POICE:	And go another.
21	ALM	TOTCE:	And what's this?
22	PK=	:20101	That's a stop.
23	ALM	POICE:	Stop from the third start?
24	PK=	102C2:	Yes, that's correct.
25	ALMA	*0102 :	So that's three starts there.

1	PK voice:	That's right.
2	ALM VOICE :	Three start attempts.
з	(Teleph	one ringing.)
4	PR (FALKING ON	HHENE) Hello.
5	VOICE:	(Inaudible).
6		Uh-huh.
7	Am voice:	Four, five, six.
8	Kochny VOICE:	Yes, uh-huh.
9	PK VOICE:	You can do it either way.
10	PK MOICE:	That's right.
11	ALM VOICE:	Seven.
12	PK WOICE:	Uh-huh.
13	ALM NOTCE :	Eight.
14	PK VOICE:	Up to the 3rd there from January 1st.
15	VOICE:	No, that's correct.
16	V voice=	That is including the insurance benefits
17	as srdered, okay?	
18	PK VOICE	Uh-huh.
19	VOICE-	Okay.
20	VOICE:	That's correct.
21	VOICET	Okay.
22	VOICE-	That's correct.
23	VOICE:	Which one?
24	VOICET	Yeah.
25	V VOICET	You can do either way.

Kochr" You can put a, you know, separator or --1 2 I'll talk to you later. 3 (End of telephone conversation.) 4 VOICE: (Inaudible). AM VOICE: (LAUGH,NG) (LAUGHING) It was -- I've got -- Noh great -- I've 5 6 confused apples and oranges here. 7 I went from the one B to the one A, and now I'm lost, okay. 8 PK WOICE: This is a --9 ALM TOTE: Do you have anything -- you don't have 10 23RD any data then, past the 20th? 11 PK VOICE: 12 No. ALM: Well, we did a lot more past the 23rd. 13 Kocheryworce: No, I don't have anything past the 23rd 14 on that. 15 ALM WOICE: Oh, okay. 16 Kochery worce: These are generators failed here, the one 17 18 в. 19 They should be right here. I SPOTTED And worce: There's a bunch of them. There were 20 21 several problems in the course of that. It's on the next 22 page, I think. PK WOICE: Yeah. 23 ALM NOICE: It should have (inaudible). 24 Kothony work: That's right. 25

28 low TRIPS ALM MOICE: A It's on (inaudible) jacket and water 1 2 pressure. 3 PK WOTCE: And before that ---Do you also remember (inaudible)? 4 VOICE-5 VOICE: (Inaudible). 6 VOICE: (Inaudible). Am voice: 7 Did the A machine ever have a problem? VOICE + Not even a little, 8 hockeny voice: No, A machine never had a problem, no. 9 10 VOICE: (Inaudible). PK VOICE: 11 That's right. VOICE B's the one. 12 VOICE: Okay, the B machine tripped, it back 13 14 there: hochery: A These are the two trips on a B machine. Other 15 16 than that, we didn't have any trips. 17 VOTCET Okay. Trip conne tineudibles, high tor boil VOTOR 18 temperature on a -322 19 AND IT 20 (insudible), right at the time. 21 On a low jacket water pressure (inaudible) have a 22 low boil pressure, per. 23 24 hodrer / Ale WOICE: All right, that's the two trips we had? 25 VOICE: Yesh-

29 kochry worce: So this (inaudible) is not correct. 1 Am NOICE: 2 I'm going to have to look for that more. Let me get a copy of these two things. I going to 3 have to find out the rest of the story. 4 5 PK VOICE: And I'll take some copies. ALM WOTCE: Okay. 6 Aug: What I really need is the starts since, you know, THAT 7 98 beyond they il be on, your list there. 8 PK worce: What I need, basically, is -- oh, I know. 9 STARTS ALM WOICE: Maybe if we had more (inaudible) -- you 10 know, maybe this -- I'm not sure if this is a problem or 11 12 not. AM: Well, okay, you had an item on here that you said 13 14 was . Koinery: TEMPERATURE STAY THERE MOICE: In the letter, ten (insudible) == didn't 15 ter (inaudible). 16 Am VOICE: Okay, that "a test of the jacket waters 17 18 system temperature transient during engine starts was 19 conducted. The purpose of this test was to determine the actual jacket water temperature at the switch locations with 20 21 the engines in a normal stand out line up." "And then followed by series of storage-without 22 - dim AIR TO THE max rolling engines and replicated starts of March 20th." 23 THE TESTS "If that, showed that the jacket water temperature 24 at the switch location decreased from a standby temperature 25

		۰F	σF	30
1	of 163 de		to approximately 156 degrees set and	
2	remained	steady."		
3		What's y	our comment on that?	
4	kocheny	VOICE:	It wasn't steady, you know. It went	up
5			became steady. You see, it was	
6	Am	VOICE:	Oh, you got the chart here?	
7	PK	OICE:	Oksy.	
8		(Pause.)	- (FAPER SHUFFLING SOUNDS)	
9	ALM	VOICE:	Okay, let me look at it.	
10	РК	VOICE:	Okay, right here.	
11		VOICE:	(Inaudible).	
12	ALM	voice:	Okay, I'll read it to you later.	
13	PK	VOICE :	Okay.	
14	ALM	VOICE:	WE'RE SAYING IT FELL Mare it says fill	
15	PK	VOICE:	Okay.	
16	ALM		Where's the fall; which direction is t	this
17	chart goin	ng?		
18	PK	VOICE:	This is a	
19	ALM	vorce:	Where's time going?	
20	PK	VOLCE :	This is 163. That's us.	
21	ALM	VOICE:	Time's going this way?	
22	РК	VOICE:	That's correct.	
23	ALM		Okay.	
24	PK	HOICE:	Okay.	
25	ALM	VOLCE :	So right to left.	

1	PK NOS		163.
2	ALM NOS		163, okay.
3	PK VOI		Then
4	ALM NO		And it goes down here.
5	PK VOI		That's right.
6	ALM NOT	EE:	And then
7		CRE	And then it's really steady, with the time
8	FRAME AM I table that I	m 100)	cing at.
9	PK voi	CE:	Okay.
10	ALM NOT	CE :	I_{A} first a little wobble here.
11	PK 303		Yeah.
12	ALM NOT	CE.	Okay, how much time is that; what kind of
13	time scale?		
14	PK was	CE :	Uh, 60 centimeters per minutes.
15	ALM NOT	CE:	60, 70, oh, so I was looking
16	PK TOD	C2:	This is a (insudible) right now.
17	ALM top	CE:	Yeah, okay, so I was looking at about,
18	what four or	five f	eet there, so that's a minute or so.
19	PK TOT	CE:	That's right.
20			Yeah, okay.
21	PK NOT	CE:	You see, this was a jolt.
22	ALM VOI	-	Yeah, so there's a little wobble there.
23	PK wor	CE: 1	Yeah, it's a (inaudible).
24	ALM DOT	CE:	Yeah, I see a little wobble up, and then
25	it peaks, and	then I	here's another.

Is this the end of your run? This is another up. 1 That's right. That's a -- you can see PK VOICE: 2 that (inaudible) was started the time. 3 ALM VOICE: Okay. 4 PK VOICE: That's where, you know. 5 ALM WOICE: Any off, there we go, yeah, okay. 6 7 -YOICET I mean, it's steady to the extent that Plus on minus you'd say steady is within (insudible), at three or four 8 degrees. 9 It's steady within that range, okay, right? 10 PK WOICE: 11 (Inaudible) -- back to 115 on a third (inaudible). 12 plus on mixus Yeah, okay, (insucible) is five degrees. ALM NOICE: 13 PK HOICE: It started going up, and then went down 14 15 again. ALM NOICE: 16 Okay. -MOICE: Who do you think has the rest of the 17 starts? 18 Jimy PAUL PK VOICA: (Inaudible),. 19 ALM WOICE: Who? 20 JIMMY THINK I agree with him that it's Paul Cash PK -MOICE: 21 22 -(phonetic), you know, also. -hating worces JIMMY You think, Paul Cash has all the starts? 23 FK WOICE: 24 Yeah. AL. 7 HOLEE: 25 Okay.

33 pochiny voice: (Inaudible) -- Jonly two (inaudible) are 1 2 3 ALM VOICE: Yeah. 4 JACKET howhen youce: (Continuing) -- and the low pressure, back 5 LUBE CIL, TURBO LUBE CIL. in the water and the low boil, (insudible) low boil. 6 149 7 That's because it's connected and one bric (inaudible). 8 Anytime that you get, that on, you get both of them 9 Does Kenny Keop a log of all 10 on. (Insudible). ALM VOICE: 11 HE DOES Yeah, (inaudible). You see, you're PK YOTIT: 12 13 behind on this. ALM VOICE: I know why, because of all the starts. 14 PK VOICE: That's right. 15 ALM -YOICE: 16 OKAY. SOMEBODY HAS GOT TO HAVE THEM. 17 Voice: One of these duys had them. PK YOICE: (Inaudible) & CONTROL ROOM. 18 ALM WOICE: 19 We put something together for the --20 didn't we put something together for the IIT (phonetic) on 21 that? PK WOICE: 22 Yeah, this is what I made for IIT. (INAUDIBLE) ALM MOTOT: 23 I heard of them, unless they made it (inaudible). 24 KochANY HOSCE: 25 Yeah, that's it. That's what Jimmy Paul

1	has. (INAUDIBLE)
2	ALM: He has that, he and Simmerman (phonetic).
3	=VOICET All right, maybe I'll get with them.
4	Let me make copies of these just for now, so I can
5	make some notes.
6	(BACKGREUND CONVERSATIONS) VOICE: Yeah, we're gonne do that. (SOUND OF XEROX ITHCHINE)
7	(Pause.)
8	VOICE: I've never had that.
9	VOICE: It was held up initially. (Insudible).
10	VOICE: Did you get that number?
11	ALM - WOICE: I appreciate that.
12	(Pause.) (BREAK IN TAPING)
13	VOICE: Okay, the administrative chain up there -
14	
15	VOICE: (Inaudible).
16	VOICE: Curtis (phonetic) yeah, I mean, but he
17	was, you know, I mean, he was like that.
18	He's a fairly high guy. Was it O'Reilly
19	(phonetic) who was administrative then?
20	VOICE: Yeah.
21	VOICE: O'Reilly in administration?
22	VOICE: (Inaudible).
23	VOICE: You know, I mean
24	VOICE: (Inaudible).
25	VOICE: He was to the administrative branch, you