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TAPE 34

April 4, 1990

Tr. 11-14

BOCKHOLD: The switches in the field were calibrated using a water bath inside a thermal well with people lightly tapping on it and watching very closely with the supervision of Cooper engineers right there with our I&C techs.

MALE VOICE: This last time (inaudible).

BOCKHOLD: Not this last time. This is what we actually have in on the diesel (inaudible).

MALE VOICE: Now.

BOCKHOLD: Now. What we did on that one switch in the lab we did some with the I&C folks.

MALE VOICE: Yeah. But, what I'm saying is the arrangement that we had yesterday in the oil bath was a different arrangement than we had the other day. Oil bath is oil bath and I should state that RTD is RTD. But I think what you need to do is lock in and say "this is the way we are going to do it and this is the equipment we are going to use."

BOCKHOLD: I agree with you. The problem is we have different types of people doing different types of tests and . . . and . . . their perception of the correct test methodology of what they are used to and what their experience is is different. And we have been doing a lot of this in parallel to bring the engines to an operable state. And now we have these quarantine switches that we want to go ahead and do a very rigorous . . . all of us want to do a very rigorous test methodology. And we can't do it with the

NUCLEAR REGULATORY COMMISSION

Docket No. 50-424/425-OLA-3 EXHIBIT NO. II-181
In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2
 Staff Applicant Intervenor Other
 Identified Received Rejected Reporter SD
Date 9/7/95 Witness George Bockhold

1 same people we got still working on the diesels. Well, we can but
2 it all will be four days from now. (Inaudible.)

3 MccOY: Let me go back . . .

4 BOCKHOLD: And that's the organization I need to talk you
5 about.

6 MccOY: Let me go back and get this thing in. One of the
7 items that we have already done is that -- is revise the
8 calibration procedures. Wasn't that what . . . ? For these
9 switches?

10 BOCKHOLD: These switches that are on the engines they've
11 had close supervision of Cooper engineers while they were
12 calibrated.

13 MccOY: Been revised and --

14 BOCKHOLD: No, we did not revise our procedures. We
15 basically did it in a very consistent fashion and part of this
16 overall thing is we will revise . . .

17 MccOY: We will revise.

18 BOCKHOLD: Will revise the final procedure that we use.
19 Because there is some controversy over whether the way the Cooper
20 people did it is the best way or is there a better way. And we
21 believe there is even a better way than the way Cooper people had
22 us do it. The way Cooper people had us do it was very consistent.

23 The thing that was inconsistent was how much air do you
24 (inaudible) upon the switch when you tap it lightly. But, the
25 Cooper people did it the way they would do it if they were
26 calibrating those switches for this engine and any other engine.
27 We had our I&C shop originally calibrate these switches without

1 giving that piece to Cooper. Okay. Cooper were the people that
2 physically tore it down and put back and supplied the technical
3 expertise. But Cooper watched the calibration of switch in the
4 plant. Basically, when those switches were calibrated the Cooper
5 people closely supervised the technicians that were doing it, and
6 it was done very consistently. And very consistently according to
7 the way Cooper does their calibrating. It was signed off in
8 accordance with our standard procedure. And our standard procedure
9 basically says raise and lower the temperature three times and
10 verify it at (inaudible) which responds correctly.

11 We have a special procedure on how to calibrate these
12 things, how fast to raise and lower the temperature, that kind of
13 stuff.

14 MccOY: That ought to address the issue of (inaudible).

15 BOCKHOLD: Yeah, that's really a long(er?) term action.
16 We believe we've got good switches in the plant now. They were
17 done consistently the way Cooper engineers say that's the way they
18 should be done.

19 MALE VOICE: These things a couple days ago, you know,
20 before the (inaudible) these were two jacket waters. Did they
21 supervise that?

22 BOCKHOLD: Yes. Since the event all of the testing and
23 changeout was supervised by Cooper people.