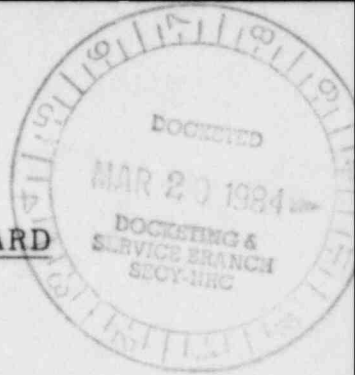


A-32
11/8/83

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD



In the Matter of)

DUKE POWER COMPANY, et al.)

(Catawba Nuclear Station,)
Units 1 and 2))

Docket Nos. 50-413
50-414

TESTIMONY OF BOYCE CAUTHEN

1 Q. STATE YOUR NAME AND YOUR WORK ADDRESS.

2 A. Boyce Cauthen

3 Catawba Nuclear Project

4 P.O. Box 223

5 Clover, SC 29710

6 Q. WHAT IS YOUR PRESENT JOB WITH DUKE POWER COMPANY?

7 A. Welding Inspector in the outside area which includes th : Pipe Fab.,
8 Metal Fab., and Pump Structure areas.

9 Q. SUMMARIZE YOUR EXPERIENCE AND QUALIFICATIONS, INCLUDING
10 OTHER NON-DUKE JOBS, EDUCATION, CERTIFICATIONS, AND
11 COMPANY SPONSORED COURSES AND TRAINING.

12 A. Rock Hill High - 12 years. Diploma

13 York Tech - 1 year, Welding, blueprints and other related subjects
14 (1973)

15 MAC-FAB, Inc. - Welder & Fitter (1973 to 1975)

16 A.M.E. - Welder & Fitter (1975 to 1977)

17 Daniel Construction - Welder & Fitter (1973 to 1977)

18 Duke - Welder (6-13-77 to 9-18-78)

1 Duke - Inspector Welding Level II (1978 to 1983) MT & PT, Level I
2 (1983)

3 Q. WHAT OTHER JOB POSITIONS HAVE YOU HELD WITH DUKE POWER
4 COMPANY?

5 A. Welder helper (5-2-77 to 6-13-77)
6 Welder (6-13-77 to 9-18-78)

7 Q. ARE YOU FAMILIAR WITH WHAT IS COMMONLY REFERRED TO AS
8 THE WELDING INSPECTOR CONCERNS WHICH WERE EXPRESSED IN
9 LATE 1981/EARLY 1982?

10 A. Yes.

11 Q. WHAT IS YOUR UNDERSTANDING OF WHAT THESE CONCERNS
12 WERE?

13 A. We, the welding inspectors, felt like we had lack of support from
14 QA management, and some QA Procedure's were not being followed.

15 Q. DID YOU EXPRESS ANY CONCERNS AS A WELDING INSPECTOR TO
16 ANY OF THE TASK FORCES OR TO DUKE POWER MANAGEMENT?

17 A. Yes.

18 Q. TO WHOM DID YOU EXPRESS YOUR CONCERNS?

19 A. I talked to several people in the Charlotte offices, but I don't
20 remember their names.

21 Q. WERE YOUR CONCERNS WRITTEN?

22 A. Yes.

23 Q. DESCRIBE EACH DOCUMENT WHICH CONTAINS YOUR EXPRESSION
24 OF CONCERNS, AND INDICATE WHO IT WAS SUBMITTED TO.

25 A. I wrote some of my concerns on a document which is attached to
26 this testimony (Attachment A). I turned this document in to the
27 QA office. However, since I submitted this document I have had

1 other concerns relating to harassment and welds in the plants.
2 These concerns are described in responses to later questions.

3 Q. DID YOU FEEL FREE TO EXPRESS ALL OF YOUR CONCERNS?

4 A. Yes.

5 Q. DID YOU EXPRESS ALL OF YOUR CONCERNS?

6 A. No. I have additional concerns related to harassment and welds in
7 the plant. With regard to harassment three incidents have
8 occurred. The first is while running M4-I's, I had some
9 harassment from other inspectors. Some times, inspectors under my
10 control found welds that did not meet the L-80 procedure and they
11 were NCIed. Other inspectors who had previously approved the
12 welds, gave me a hard time for turning this in. I did not express
13 this because, I felt like I was just doing my job.

14 The second incident related to harassment involved another
15 inspector, Max Reep, who was harassed by craft in his attempt to
16 NCI some weld filler material.

17 A third incident relating to harassment involved myself. While
18 running M4-I's a few months ago, we found some welds that had a
19 little more reenforcement than was allowed by L-80 Construction
20 Procedure. These were signed off by a Weld Inspector that had
21 come from McGuire. I mentioned the welds to his foreman, as I had
22 been instructed to do. This Welding Inspector chewed me out and
23 said I was up to my old tricks again. He also made the statement,
24 I'll get your f_____ face off the M4-I job. I went to file
25 harassment charges on him because I had had all I could stand.
26 The charges were smoothed over and one week later, I was removed
27 from the M4-I job. I'm not harassed anymore, but I don't feel like
28 this was handled in the right way. I was replaced by an inspector

1 that I have no confidence in, due to the fact I had to recheck some
2 of his lines when he helped me. I told Art Allum I had copies of
3 the M4-I's I had rerun and he said that I shouldn't be keeping
4 notes.

5 Despite the harassment, I feel that the inspectors did not let
6 it affect them doing their job.

7 With regard to concerns about welds in the plant, my concerns
8 stem from four (4) incidents. First, it was recently discovered
9 that a welder had made a large amount of bad welds on a Class C
10 system, they just finished repairing the last one a couple of weeks
11 ago. It makes me wonder if there are other welds made that are
12 unsafe. We, inspectors, could only check the outside.

13 Second, I also saw a welder that had his stainless tig
14 certification, and he should not have been certified, he was having
15 a lot of trouble on his root passes.

16 Third, I ran a lot of M4-I's. I got to look at a lot of welds in
17 all areas. I did find some that didn't have enough weld metal and
18 some that had too much. I looked at a lot more of good welds than
19 bad ones. Some pipes had to be cut out due to excessive pitting
20 or other vendor defects. This was a small amount due to the
21 amount of piping I checked. I believe that what I checked and
22 later had fixed met what our QA Program called for.

23 Fourth, some welds on the system where we only checked
24 finals may not be made to a Construction Procedure and they may
25 not be safe.

26 My written concerns attached to this document, together with
27 the above stated concerns reflect all of the concerns I have.

1 Q. HAVE YOU DISCUSSED YOUR CONCERNS WITH ANYONE ELSE?
2 A. Yes. Some of the welding inspectors have discussed our problems
3 among ourselves.
4 Q. HAS ANYONE ELSE CONTACTED YOU AND ASKED YOU TO
5 DISCUSS YOUR CONCERNS? IF SO, PLEASE DESCRIBE WHEN,
6 WHERE, HOW, AND BY WHOM YOU WERE CONTACTED.
7 A. (1) A few months ago, a Charlotte Observer reporter called me at
8 home by phone and wanted information for an article in the
9 paper.
10 (2) A few months ago, a lady from New York called and asked if I
11 felt like the plant was constructed safely.
12 Q. PLEASE SUMMARIZE AND EXPLAIN WHAT YOU WERE TRYING TO
13 COMMUNICATE BY YOUR CONCERNS.
14 A. I was trying to point out that we had harassment from Construction
15 personnel and there were some things we had no control over, like
16 uncontrolled weld filler material. I was also concerned that some
17 fits were being made that violated Construction Procedures.
18 Q. WERE YOUR CONCERNS INVESTIGATED BY THE TASK FORCES?
19 A. Yes.
20 Q. DID YOU ATTEND ANY MEETINGS WITH TASK FORCE AND/OR QA
21 MANAGEMENT MEMBERS WHERE THE TASK FORCE FINDINGS,
22 CONCLUSIONS AND RECOMMENDATIONS WERE DISCUSSED? IF
23 SO, PLEASE PROVIDE THE DETAILS OF SUCH MEETING(S).
24 A. I attended a meeting with the task force and we discussed my
25 concerns. It was brought out that some of my concerns were on
26 piping systems that didn't carry any hot material.

1 Q. WERE THERE ANY CHANGES MADE IN THE QA PROGRAM AFTER
2 THE WELDING INSPECTOR CONCERNS AND THE TASK FORCE
3 INVESTIGATION OF THESE CONCERNS?

4 A. While there may have some, I have not had to use them.

5 Q. TO WHAT EXTENT HAVE THESE CHANGES ADDRESSED ISSUES
6 RAISED BY THE WELDING INSPECTOR CONCERNS? TO WHAT
7 EXTENT HAVE THESE CHANGES ADDRESSED YOUR PARTICULAR
8 CONCERNS?

9 A. Max Reep, had some trouble about some uncontrolled welding
10 material recently, I don't think the changes helped this situation
11 any.

12 Q. THE WELDING INSPECTOR CONCERNS HAVE BEEN
13 CHARACTERIZED AS CONCERNS ABOUT THE QUALITY AND
14 SAFETY OF CONSTRUCTION AT CATAWBA. DO YOU AGREE OR
15 DISAGREE WITH THAT CHARACTERIZATION?

16 A. Agree. Welding Inspectors are to make sure all welds they check
17 are sound welds and that the Construction Procedures are followed
18 to insure that the plant is safe. However, systems has shown me
19 figures where they only need so much pipe thickness in a system
20 and our pipes were thicker than what was needed, so it should be
21 safe as far as pipe thickness.

22 Q. DID THE EXPRESSION OF YOUR CONCERNS INDICATE YOUR
23 BELIEF THAT THERE WAS A BREAKDOWN IN THE QA PROGRAM
24 OR INDICATE THAT THE QA PROGRAM WAS NO LONGER
25 WORKING? EXPLAIN.

26 A. The QA Program was working I guess, but maybe not the way the
27 Weld Inspectors thought it should work. We should have had more
28 control over things we found on random inspection.

1 Q. DID YOUR CONCERNS REFLECT A BELIEF ON YOUR PART THAT
2 THE CATAWBA PROJECT IS NOT BEING CONSTRUCTED SAFELY?

3 A. I don't know if the plant is constructed safely.

4 Q. IN YOUR VIEW, HAS THE QA PROGRAM BEEN EFFECTIVE WHILE
5 YOU HAVE WORKED AS AN INSPECTOR AT CATAWBA?

6 A. I don't know how effective it has been.

7 Q. ARE YOU AWARE OF ANY DEFICIENCIES IN CONSTRUCTION IN
8 THE QA PROGRAM WHICH WOULD CAUSE YOU TO QUESTION
9 WHETHER CATAWBA IS SAFELY BUILT?

10 A. Yes. These have been previously mentioned.

11 Q. IS THERE ANYTHING ELSE YOU WOULD LIKE TO ADD TO YOUR
12 TESTIMONY?

13 A. No.

14

15

16

17 I hereby certify that I have read and understand this document, and
18 believe it to be my true, accurate and complete testimony.

19

20

21

22

Boyce Cauthen
Boyce Cauthen

23

24

25 Sworn to and subscribed before me
26 this 23rd day of September, 1983.

27

28

29

30

Sherrice L. Williams
Notary Public

31

32 Commission Expires March 7, 1993

Lack of Support from D.A.

①

I feel that the Larry Jackson charge's filed against Ed McKenzie was handled with poor support from our D.A. Dept. I have worked in Ed's area and have heard him make remarks that his men are too fast and slick ~~for~~ for welding shop. to catch them.

① I was checking a fit-up for one of Ed's fitters, and I noticed they used a piece of pipe not listed in released piping material log. I told the fitter, I had to N.C.I. this fit. I left the reactor & went to D.A. Office to fill out a Q1-A & get N.C.I. number. After getting back to the reactor with Q1-B tag, I discovered that I had nothing to non-conform. Mr. McKenzie had instructed the fitter to cut out the pipe and re-make the fit. I wanted to N.C.I. Mr. McKenzie for doing away with my bad fit. I was told to get a note put on my N.C.I. stating that the fit was cut-out prior to placing Q1-B. I don't recall how this N.C.I. was handled, the following instances may let some-one know how Ed McKenzie gets his work done.

① I caught his lead man in a mistake and after we corrected it, the following day, Ed McKenzie called me a liar. I asked the lead man to tell him what happened, so Ed would know his lead man was lying. I don't remember the date or

(2)

what this problem was about.

(2)

One of Ed's fitters was caught making socket welds without the $\frac{1}{8}$ inch gap. I was told by him, his lead-man instructed him to do this. I also

(3)

caught one of his fitters making a 4 inch fit, on stainless steel without a purge. I asked the above fitters to cut-out & re-make these fits. I feel like they would have cut them out before I got back with an N.C.I. anyway.

(B)

I wonder how many fits his crew has made by violating construction procedures. I've tried to be as slick & fast as I could but we were told to slack-up on writing N.C.I.'s at one time.

(W)

I am still a welding inspector but I am on m 4-I inspection most of the time. It has been brought to my attention, that I may be over-inspecting, look for construction damage only. While I am inspecting these piping systems, I feel like I should, note all damage I find. I will continue to note on m 4-I form, anything that I find damaging to a piping system until proven otherwise.

(5)

Lack of support or un-controlled filler weld mat. We have been questioned on the distance a welder was from his filler material. I have picked up a welder's rods, strapped on his pouch, using his safety belt & waited till he was ready to tack a weld-joint before he missed his rods. I gave

(3)

him his rods back and warned him. He should have been N.C.I. ed. I found enough loose or lost filler material in the #1 Pipe chase on different degrees, that I felt like the pipe chase should have been N.C.I. ed. This filler material was turned over to Q.A., with a Q1-B, which has no N.C.I. number. We have been instructed to turn loose rods into Q.A., without an NCI number. I believe if an inspector can get a welder's rods that have been laid around and the welder doesn't miss them until he needs them, there should be no question about the distance he is from his welding material. Weld filler material placed in Tool boxes with no lock should be N.C.I. ed also.

Boye Caution
QA Weld. Insp.

Docet No. 50-413 Catawba 33
In the matter of _____
Staff _____
Approved ✓ _____
Interviewed _____
Cause filed _____
Contractor _____
Other _____
Replied ✓ _____
Date 11/8/83
By Ron Graham