



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20545

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October 21, 1983  
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OFFICE OF INVESTIGATION  
HEADQUARTERS

50-413

MEMORANDUM FOR: Chairman Palladino  
Commissioner Gilinsky  
Commissioner Roberts  
Commissioner Asselstine  
Commissioner Bernthal

FROM: *George H. Messenger*  
George H. Messenger, Acting Director  
Office of Inspector and Auditor

SUBJECT: CATAWBA NUCLEAR POWER STATION; REVIEW OF NRC HANDLING  
OF ALLEGATIONS

This memorandum has been prepared to provide the status within the Office of Inspector and Auditor (OIA) of the subject.

In our April 29, 1983, memorandum, we advised that this office would review the subject matter as related by an April 21, 1983, letter from the Government Accountability Project (GAP) of the Institute for Policy Studies.

On May 17 and June 3, 1983, OIA personnel conferred with Ms. Billie Pirner Garde, Director, Citizens Clinic for Accountable Government and Ms. Jennifer Phillips, Staff Associate, both of GAP, regarding the April 21 letter. At the meeting held on June 3 with Ms. Garde and Ms. Phillips, they explained that they are reviewing the matter which was presented to them by the Palmetto Alliance (local South Carolina intervenor group). However, at that time they were unable to provide any additional amplifying information regarding their allegations other than as stated in their initial letter. Further, they advised they would provide any additional information to the NRC upon completion of their preliminary review.

Relatedly, during May-August 1983, OIA conducted an investigation regarding the GAP allegations at NRC Region II and at the Catawba facility pending receipt of the GAP letter delineating their additional concerns.

CONTACT: Patrick McKenna, Jr.  
OIA, 492-4453

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In her September 14, 1983, letter to the NRC Commissioners, Ms. Garde writes "....GAP has now concluded a preliminary review of the Catawba plant..."; the letter also describes additional allegations which surfaced during Hearings held during July 1983 which may expand the scope of the allegations stated in the original GAP letter. The second GAP letter has been referred to the NRC staff for treatment as a petition under 10 CFR 2.206.

This office is reviewing the September 14, 1983, letter and enclosures and will pursue any allegations regarding NRC employee impropriety warranting investigation. In addition, OIA has coordinated with the Office of Inspection and Enforcement (IE) staff regarding response to GAP/10 CFR 2.206, and any possible instances of NRC employee impropriety(ies) which are identified will be pursued and addressed in the OIA report.

Concluding, OIA staff conferred with Ms. Garde on October 14, 1983. The discussion with Ms. Garde focused on her September 14, 1983, letter as it pertained to possible NRC employee impropriety. Ms. Garde related that she is compiling several affidavits from various Catawba Nuclear Power Station workers which reportedly identify numerous technical/hardware problems at the site although no additional allegations of NRC employee misconduct were identified by her.

The OIA investigation will continue concurrently with the IE 10 CFR 2.206 review. This will allow OIA to maintain coordination with IE regarding any possible NRC employee mal/misfeasance identified during IE's review and prepare a complete and final report of investigation. We anticipate our report will be completed at approximately the same time as the IE review.

cc: W. Dircks, EDO  
H. Denton, NRR  
B. Hayes, OI ✓  
G. Cunningham, ELD  
R. DeYoung, IE  
J. O'Reilly, Reg. II

## STATEMENT

PLACE: Castroville, P. T. California

DATE/TIME: January 19, 1984

I, Charles D Crisp, do hereby make the following voluntary statement to E.L. Williamson & J.Y. Vorse who <sup>have</sup> identified <sup>themselves</sup> ~~himself~~ to me as an Investigator with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

I am a welding inspector for Duke Power Company at the Catahba Nuclear Station, Clarks, South Carolina. I have been a welding inspector for approximately six years. I have been asked to write on any knowledge I may have about being provided copies of written examinations while undergoing visual welding inspection classes and practical training. Sometime in the fall of 1977 I did take this training. There were three other welders taking the training besides myself. They were: Harry Langley, Pete Sheriff and Ronnie Kirby. I am aware that Langley has made allegations that he was provided copies of examinations with answers already filled in and the examinations were used to pass the written portion of the welding school requirements. I would like to state that this is absolutely false. We were given daily <sup>quizzes</sup> ~~examinations~~ to cover the material we had learned the previous day. I do not recall if we got these tests back to study from. These <sup>quizzes</sup> ~~examinations~~ were a very small portion of our overall grade. I do know that I studied very hard during this course and nothing was given. The big tests were the practical factors (hands on with coupons) and an open book test which was designed to see if we knew where to look for procedures. We were given a practice exam for the open book. I have already provided testimony to the Duke lawyers regarding this matter. There were also some mechanical inspectors in the class but I don't believe they ever finished.

I have also been asked to comment on the incident where a welder put my initials on a weld. I am not involved in this incident and was told about it after the incident. <sup>As best I can</sup> I understand that sometime in February 1978, Lindsay Harris came to me and said that a welder named Gardner had used my initials to sign off a weld. Harris said he ~~NICT~~<sup>advised</sup> the welder <sup>and</sup> to create up Gardner. The initials were placed on <sup>a control sheet for</sup> stirrers in Centowent. As I <sup>SEI</sup> ~~PHO~~

Charles D. Cripp

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understand it Gardner turned himself in because his conscience was  
 'thring him and no one caught him doing it. I also heard that  
 dwarf's act was brought to higher management including Bill Lee  
 but he was not fired because he turned himself in.  
 Going back to the welding inspection school, we also were given an exam  
 ination the first week on general subjects such as metallurgy, QA/QC  
 organization and other subject matter. Again, I do not remember whether  
 or not we were allowed to keep the daily quizzes to study from.

Charles W. Crisp

CWC

I have read the foregoing statement consisting of 2 handwritten/typed  
 pages. I have made and initialed any necessary corrections and have signed my  
 name in ink in the margin of each page. I swear that the foregoing statement is  
 true and correct. Signed on 1-19-84 at 9:05 PM.

SIGNATURE: Charles W. Crisp  
 NAME

Subscribed and sworn to before me this 19<sup>th</sup> day of January 1984.  
 1983 at BASTONIA, NC

INVESTIGATOR: [Signature]

WITNESS: \_\_\_\_\_  
 NAME/TITLE

RESULTS OF INTERVIEW WITH PHIL EDWARDS ON  
FEBRUARY 7, 1984 AS PREPARED BY E. L. WILLIAMSON

On February 7, 1984, Phil EDWARDS, former Quality Control (QC) Welding Inspector at Duke Power Company's (DPC) Catawba Nuclear Station, Clover, South Carolina, was interviewed by Investigators E. L. Williamson and J. Y. Vorse at the Holiday Inn, Rock Hill, South Carolina and he provided the following information in substance:

EDWARDS stated that he had worked for DPC for approximately three and a half years, May 1977 through February 1981. He said he was hired as a welder, and also served as a welding instructor during his initial tenure. He stated that he became a welding inspector after approximately six months employment and served in that position until he left DPC. He explained that prior to working for DPC he worked with Daniels Construction Company for approximately three years as a welder and worked at various locations including V.C. Summer Nuclear Plant and Barnwell Nuclear Waste Site. He stated he is currently employed by J. A. Jones Applied Research Company, Charlotte, North Carolina as a Senior Automatic Welding Technician. He said he has been employed by J. A. Jones since leaving DPC.

EDWARDS stated that he was aware of the ongoing investigations at Catawba and the Atomic Safety and Licensing Board (ASLB) hearings and indicated he had no objection to talking to the NRC and being as helpful as he could be. He said that during his tenure at DPC he never felt harassed, intimidated or threatened by anyone. He explained that at a construction site people will typically exchange words or have differences of opinion. He said that an individual has to take several things into consideration, when he thinks he feels harassed or threatened, including the other person's feelings and what kind of day he might have had. He said there were a couple of incidents that he could recall when remarks made to him could have been taken as harassment or threats, but he dismissed them as comments made out of anger or excitement. He related that while working in the Unit 1 spent fuel pool he pointed out some potential problems with bimetallic joints and possible cracking problems as a result of improper design of the spent fuel pool. He said he explained to the NRC Resident Inspector Kim VANDOORN, who was in the area, that he thought the embedded angle iron was a potential problem and that poor engineering was, in his opinion, evident. He said that the leak chase test and all applicable PT was acceptable and that the QA Technical Support Group was aware of his concerns and everyone seemed to be happy with the structures "as is." He said that during his inspection, Billy SMITH, welding General Foreman, told him that he wished he (EDWARDS) would quit being a "son of a bitch" and get this place built (spent fuel pool). EDWARDS said he did not feel threatened or intimidated by SMITH's remarks. He said that was what someone would expect from a construction supervisor. He added that SMITH's remarks did not deter him from doing his job.

EDWARDS related another incident wherein a welding foreman, Barney COBB, casually mentioned to his welding crew in his (EDWARDS') presence, that if he got in their way, they should just push him off the scaffolding. EDWARDS said he did not know if COBB was serious, but he did not feel threatened by COBB's remarks. He said he later asked his supervisor to



move him from the spent fuel pool area but it was because he felt that unsafe working conditions existed, in that the scaffolding was substandard and not because of any harassment, intimidation or threats.

EDWARDS stated that if there was pressure on the welding inspectors it was to get the plant built. He said that construction/production people were constantly pushing inspectors to move along. He added however, that this is also a way of life on a construction site, that was the "name of the game" to get the plant built. He said he never felt that quality or safety were sacrificed in favor of production. He said he was not aware of any breakdown in the QA program. He felt that all the welding inspectors did their jobs.

EDWARDS explained that in late 1980, Larry DAVISON, Project QA Manager, discouraged the welding inspectors from writing "too many" NCIs. He said that they, the welding inspectors, were told not to write so many NCIs. He said that DAVISON indicated that they should try to resolve problems in other ways, such as taking on the spot corrective actions. He said he personally felt that a lot of "senseless" NCIs were written by inspectors. He said many were written because of misinterpretation of the procedures and codes which resulted in "hard feelings" between the craft and some of the welding inspectors. In turn he said that some of the welding inspectors over-inspected and tried to be hard and critical of the craft. He said that at one time or another, all welding inspectors have had NCIs turned down. He said this is where interpretation comes into play and that supervision is there to resolve such issues. He said an inspector may think he is right when, in fact, he is wrong. He said he wrote NCI's, and he was not qualified to make an engineering analysis, so he was usually happy with the resolution. He said he never had any NCI's rejected, or experienced attempts by supervision to suppress or override an NCI other than when an interpretation of a procedure was in question. Then, the issue would be discussed and mutually agreed upon that an NCI was or was not necessary.

EDWARDS said that if there was a problem with communication it probably started with DAVISON. He said DAVISON had a hard time communicating down to the people below him. He said that DAVISON was an engineer and the welding inspectors were just "hired hands." He said he thought DAVISON acquiesced to construction and that he favored production because he made the comment that "everyone is here to get the plant built." EDWARDS said he could not argue with that and reiterated that to the best of his knowledge the plant was safely constructed.

EDWARDS said that he thought some of the problems at Catawba were typical of all construction jobs. He said it was a common practice, that as a plant started winding down the company would find ways to get the employees to leave. He said in the case of DPC they starting adding various requirements to make the inspectors' jobs harder and lower their morale. He said for example, they introduced the occurrence procedure, wherein if an employee got so many occurrences he would get a violation and in turn could be fired. He said the intent was to force people to quit and no unemployment benefits are expended by the company. He said he felt this was happening at Catawba so he left when the opportunity arose. He said the


pay issue had been going on for a long time and was just part of the catalyst for the problem that subsequently surfaced.

EDWARDS commented on the allegations raised by former employee Harry LANGLEY that welding inspectors were provided copies of the final examination prior to taking the test. He said he felt these allegations were unfounded. He said he was in the class after LANGLEY's and he was not provided any test answers nor does he know anyone who was provided with answers. He said that if cheating was going on he would have known about it through the "rumor machine." He said LANGLEY was fired for gambling and was probably disgruntled.

EDWARDS also commented on the DPC procedure for recertifying welders. He said the requalification program was a joke, adding that all welders were to be requalified every 90 days. He said this could be done with several welders at a time "striking an arc" or by observing the welders in the field welding. He said he could recertify a welder by merely seeing him strike an arc. He said welding skills were not required but this was in accordance with procedure and was all that was required. He said the welding foreman had printouts of all the due dates for his welders and they were all recertified at least every 90 days.

EDWARDS concluded by stating that he would be happy to talk to the NRC at any time and would assist in any way he could. He said he was not aware of any construction defects and not aware of anything that would adversely affect the safe operation of Catawba.

END OF RESULTS OF INTERVIEW WITH PHIL EDWARDS ON FEBRUARY 7, 1984.

  
E. L. Williamson, Investigator

STATEMENT

PLACE: ~~Gastonia, NC~~ SPARTANBURG SC

DATE/TIME: 2-21-84

I, Eddie Wallace, do hereby make the following voluntary statement to E. L. Williamson and J. Y. Vorse who have identified themselves to me as Investigators with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

*Eddie Wallace*

I am a former Duke Power welding inspector and I worked at the Catawba Project from approximately April 1977 to January 1980. I worked one year as a welder and the remainder of the time as a QC welding inspector. Before working for Duke I had been welding for <sup>Yea Corp</sup> ~~Daniels~~ Construction and Gaston County Die, Inc. I left Duke because I like to work on my own and in addition, I was going to be put on the 2nd shift which was not agreeable to me. I have been asked by the investigators if I was ever harassed or intimidated on the job and I will relate several instances where it could be construed that I was. The first occasion was when a pipe fitter failed to properly fit-up a pipe joint, several times on the same project, so I rejected it and as I was placing the Q1B hold tag on the pipe the pipe fitter whose name I can not recall, said something to the effect that if he ever saw me off the job in a bar, after a couple of drinks he would whip my butt. He had earlier seemed upset, possibly for personal off the job reasons, and I did not consider his words as threatening. His remarks did not affect my decision to reject the fit-up. About 20 minutes later he apologized to me for his remarks. I did not report the incident to higher supervision. On another occasion I had written an NCI for some incident I can not recall, and on



my way to Beau ROSS's (my supervisor) office the pipe fitter's foreman, who was in charge of the fitter I had NCI'd asked me why I had written the NCI. I recall we went in ROSS's office and in front of ROSS the foreman whose name was Wade HALL said I was being too picky and that he may have to "whip his butt" (referring to me). I must say however, that Wade HALL apologized to me about 30 minutes later. The last sort of related incident happened in late 1979. I was accused of harassing a craft crew and I got involved in a discussion about this with Larry DAVISON, Project QA Manager ROSS, Charles BALDWIN, QA Technical Supervisor, Ken WEBBER (pipe fitter superintendent), a General Foreman, one pipe fitter and two helpers. I had been inspecting this particular crew harder than the others because they had accused us (inspectors) of being late for inspections for such things as sitting and drinking coffee and thus holding up production. Also, one of the fitters was consistently doing poor work and about 50% of his work was rejectable. I got tired of this and started writing NCIs on him. DAVISON, my supervisor, told me to "slack off" and try to work with the craft. By that I interpreted him to mean that I was automatically NCIing anything and not treating that crew like other crews. I told DAVISON that I would not slack off on this crew. He said that I would. This shouting match went back and forth about three times. I did as DAVISON said. I will say that I never had a problem with NCIs. ROSS was an outstanding foreman and he backed his inspectors 100%. DAVISON was objective and tried to see all sides of an issue. If there were grey areas about the disposition of an NCI, DAVISON would take several days to resolve the issue. I was never dissatisfied with the resolutions and all NCIs that I was sure about were always properly dispositioned. I believe that the Catawba Project is a top quality job. I would feel very safe living near the site. I never got the feeling that the management was production oriented, nor was there any construction influence over the welding inspectors. Sometimes, for example, if I found something wrong and there was a grey area, the decision on what to do could go either way depending on

interpretation of procedure, the decision would sometimes go in favor of construction but other times it would go in favor of the QC welding inspectors. There really was no influence one way or another. I am not aware of any cheating on welding inspector examinations or falsification of any records. I have no concerns that I feel should be discussed. I believe the Catawba Project is top quality all the way. The job I held was mentally the hardest and the best work I ever did.

I have read the foregoing statement consisting of 2 typed pages. I have made and initialed any necessary corrections and have signed my name in ink in the margin of each page. I swear that the foregoing statement is true and correct. Signed on 2-21-84 at 130.

SIGNATURE:

Eddie D. Wallace

NAME

Subscribed and sworn to before me this

21<sup>st</sup>

day of

February,

1983 at

Spartanburg SC

INVESTIGATOR:

J. G. V.

WITNESS:

E. L. Williamson

NAME/TITLE

RESULTS OF INTERVIEW WITH LAMAR SHERIFF ON  
MARCH 2, 1984 AS PREPARED BY E. L. WILLIAMSON

On March 2, 1984, Lamar "Pete" SHERIFF, Quality Control (QC) Welding Inspector at Duke Power Company's (DPC) Oconee Nuclear Station, Seneca, SC was interviewed by Investigators E. L. Williamson and D. D. Murphy at the site and he provided the following information in substance.

SHERIFF stated he has worked for DPC for 14 years in a variety of positions. He said he began with Duke in March 1968 at Oconee as a welder and worked there until 1975. He said he began work at DPC Catawba Nuclear Station in 1977 as a welder and became a welding inspector in 1978, a position he occupied until 1981 when he left for his present position at Oconee. He said he is presently a welding and NDE inspector at Oconee. He said that prior to working for DPC he worked for Laturno-Westinghouse, Inc., and this was where he got his initial welding training.

SHERIFF was questioned about his classroom training for being a welding inspector and he said that in 1977, the exact date he could not recall, he was in a welding inspectors' class at Catawba. He said that to the best of his memory the class was two weeks long and covered a variety of topics including procedures and metallurgy. He said that one half day was spent in the classroom and the other half day was in the field working with and observing other welding inspectors. He said that the other welding inspectors in the class were Charlie CRISP, Harry LANGLEY and Ronny KIRBY. He said there were some other people in the class but they were mechanical inspectors and he was not sure what they were doing in the class. He said the instructors of the class were Charles BALDWIN, Beau ROSS, Ray HOLLINGS and Larry DAVISON.

SHERIFF said he was aware of the allegation made by Harry LANGLEY, a former welding inspector, that the welding inspectors were provided copies of test questions and answers prior to taking the test. He said this was not true. He added that he had to study from two to three hours each night and he barely passed the course. He said he had to study as did the other members in his class that took the test. He reiterated that he did not receive any assistance on the test nor was he aware of anyone that did.

SHERIFF said the final exam was an open book test on procedures and there was a practical exam, consisting of reading an isometric drawing and inspecting a fit-up. He said he had to review heat numbers, welder qualifications, inspect several weld coupons, as well as a root pass and do a final visual inspection on a coupon. He added if he had any help it came only from other inspectors who had taken the course who would tell him what kind of questions they had and what he might expect on the final.

SHERIFF said he left Catawba in the spring of 1981 to go to Oconee. He related that he spent a lot of his time at Catawba in the pipe fabrication shop, working on material traceability problems with Tom BUMGARDNER, a welding inspector. He said while at Catawba he wrote a number of NCIs and never had any problems getting them accepted by his supervision. He said he was never discouraged from writing NCIs and reporting problems to his supervision. He said he was satisfied with the resolutions offered by QA

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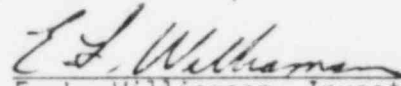
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Technical support for his NCIs. He said that there were occasions when heat numbers on material and the numbers recorded on the release piping material log could not be reconciled and the material in question would be discarded or scrapped.

SHERIFF concluded by stating that he was not aware of any construction defects at the Catawba site and he felt the plant was safely built. He said that some of the inspectors were a little "nit picky," going strictly by the book and not allowing for "common sense" when conducting their inspections. He said he thought that management did whatever was necessary to ensure the plant was built safely and on schedule.

SHERIFF expressed a reluctance to sign a sworn statement and asked that the information he provided be documented in a Results of Interview.

END OF RESULTS OF INTERVIEW WITH LAMAR SHERIFF ON MARCH 2, 1984.

  
E. L. Williamson, Investigator

RESULTS OF INTERVIEW WITH LAMAR SHERIFF ON  
MARCH 2, 1984 AS PREPARED BY E. L. WILLIAMSON

On March 2, 1984, Lamar "Pete" SHERIFF, Quality Control (QC) Welding Inspector at Duke Power Company's (DPC) Oconee Nuclear Station, Seneca, SC was interviewed by Investigators E. L. Williamson and D. D. Murphy at the site and he provided the following information in substance.

SHERIFF stated he has worked for DPC for 14 years in a variety of positions. He said he began with Duke in March 1968 at Oconee as a welder and worked there until 1975. He said he began work at DPC Catawba Nuclear Station in 1977 as a welder and became a welding inspector in 1978, a position he occupied until 1981 when he left for his present position at Oconee. He said he is presently a welding and NDE inspector at Oconee. He said that prior to working for DPC he worked for Laturno-Westinghouse, Inc., and this was where he got his initial welding training.

SHERIFF was questioned about his classroom training for being a welding inspector and he said that in 1977, the exact date he could not recall, he was in a welding inspectors' class at Catawba. He said that to the best of his memory the class was two weeks long and covered a variety of topics including procedures and metallurgy. He said that one half day was spent in the classroom and the other half day was in the field working with and observing other welding inspectors. He said that the other welding inspectors in the class were Charlie CRISP, Harry LANGLEY and Ronny KIRBY. He said there were some other people in the class but they were mechanical inspectors and he was not sure what they were doing in the class. He said the instructors of the class were Charles BALDWIN, Beau ROSS, Ray HOLLINGS and Larry DAVISON.

SHERIFF said he was aware of the allegation made by Harry LANGLEY, a former welding inspector, that the welding inspectors were provided copies of test questions and answers prior to taking the test. He said this was not true. He added that he had to study from two to three hours each night and he barely passed the course. He said he had to study as did the other members in his class that took the test. He reiterated that he did not receive any assistance on the test nor was he aware of anyone that did.

SHERIFF said the final exam was an open book test on procedures and there was a practical exam, consisting of reading an isometric drawing and inspecting a fit-up. He said he had to review heat numbers, welder qualifications, inspect several weld coupons, as well as a root pass and do a final visual inspection on a coupon. He added if he had any help it came only from other inspectors who had taken the course who would tell him what kind of questions they had and what he might expect on the final.

SHERIFF said he left Catawba in the spring of 1981 to go to Oconee. He related that he spent a lot of his time at Catawba in the pipe fabrication shop, working on material traceability problems with Tom BUMGARDNER, a welding inspector. He said while at Catawba he wrote a number of NCIs and never had any problems getting them accepted by his supervision. He said he was never discouraged from writing NCIs and reporting problems to his supervision. He said he was satisfied with the resolutions offered by QA

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E. L. Williamson



Technical support for his NCIs. He said that there were occasions when heat numbers on material and the numbers recorded on the release piping material log could not be reconciled and the material in question would be discarded or scrapped.

SHERIFF concluded by stating that he was not aware of any construction defects at the Catawba site and he felt the plant was safely built. He said that some of the inspectors were a little "nit picky," going strictly by the book and not allowing for "common sense" when conducting their inspections. He said he thought that management did whatever was necessary to ensure the plant was built safely and on schedule.

SHERIFF expressed a reluctance to sign a sworn statement and asked that the information he provided be documented in a Results of Interview.

END OF RESULTS OF INTERVIEW WITH LAMAR SHERIFF ON MARCH 2, 1984.

  
E. L. Williamson, Investigator

STATEMENT

PLACE: Rock Hill, S.C.

DATE/TIME: 4-10-84 2:40 P.M.

I, Gary E. ROSS, do hereby make the following voluntary statement to E. L. Williamson and J. Y. Vorse who have identified themselves to me as Investigators with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

I am currently employed as a Supervisory Technician/Welding Inspection at Duke Power Company (DPC) Catawba Nuclear Station, Clover, South Carolina. I have been employed by DPC for 13 years, beginning in March 1971. I initially hired on as a welder, a job I held for two years before becoming a welding inspector. I served as a welding inspector for one year and moved into welding inspection supervision. I began working for DPC at <sup>Jacasse B. Hydro</sup> ~~Joe Cassidy~~, a ~~fossil fuel~~ plant and then moved to the McGuire Nuclear Station which was my first job at a nuclear plant with DPC. I worked at McGuire for approximately three years and moved to Catawba Nuclear Station in August 1976. Prior to working for DPC I was employed by Daniels Construction Company as a welder for one year. I learned to weld in a welding apprenticeship program working for the Newport News Shipbuilding Company. I was in this program for four years. I also attended Clemson University for one year.

I have been asked to comment on allegations made by Harry LANGLEY, former welding inspector that students were provided with answers to QC examinations, I can only say that I did not provide anyone with assistance nor am I aware of anyone who might have given assistance to any of the students. As I recall the QC welding inspector class lasted five or six weeks. They spent half the day in class and half the day in the field with a trained inspector. The class had LANGLEY, Charles CRISP, Pete SHERIFF and Ronny KIRBY and a few mechanical inspectors who attended some of the classes. The class was divided into three parts, general, specific and practical. The students were given daily quizzes which were returned each day to be used as study guides. These quizzes were used to test what was being taught and what was being learned. There was a

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final exam given at the end of each phase. The final general subject phase was a closed book exam, the final specific subject phase was a closed book exam but the final practical was an open book exam. I have heard these allegations but to the best of my knowledge there was not any cheating in the class. I certainly did not provide students with answers inside their test nor am I aware of anyone who might have given the students assistance. I do not feel that there is any substance to the allegations. D.E.R.

I have read the foregoing statement consisting of 2 typed pages. I have made and initialed any necessary corrections. I swear that the foregoing statement is true and correct. Signed on April 10, 1984 at 2:45 P.M.

SIGNATURE: D. E. R.  
NAME

Subscribed and sworn to before me this 10<sup>th</sup> day of April 1984,  
1984 at Rock Hill SC

INVESTIGATOR: [Signature]

WITNESS: \_\_\_\_\_  
NAME/TITLE

STATEMENT

PLACE: Rock Hill, SC.

DATE/TIME: 4-10-84 2:40 P.M.

I, Gary E. ROSS, do hereby make the following voluntary statement to E. L. Williamson and J. Y. Vorse who have identified themselves to me as Investigators with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

I am currently employed as a Supervisory Technician/Welding Inspection at Duke Power Company (DPC) Catawba Nuclear Station, Clover, South Carolina. I have been employed by DPC for 13 years, beginning in March 1971. I initially hired on as a welder, a job I held for two years before becoming a welding inspector. I served as a welding inspector for one year and moved into welding inspection supervision. I began working for DPC at <sup>Jacasse D.E. Hydro</sup> ~~Joe Cassidy~~, a fossil fuel plant and then moved to the McGuire Nuclear Station which was my first job at a nuclear plant with DPC. I worked at McGuire for approximately three years and moved to Catawba Nuclear Station in August 1976. Prior to working for DPC I was employed by Daniels Construction Company as a welder for one year. I learned to weld in a welding apprenticeship program working for the Newport News Shipbuilding Company. I was in this program for four years. I also attended Clemson University for one year.

I have been asked to comment on allegations made by Harry LANGLEY, former welding inspector that students were provided with answers to QC examinations, I can only say that I did not provide anyone with assistance nor am I aware of anyone who might have given assistance to any of the students. As I recall the QC welding inspector class lasted five or six weeks. They spent half the day in class and half the day in the field with a trained inspector. The class had LANGLEY, Charles CRISP, Pete SHERIFF and Ronny KIRBY and a few mechanical inspectors who attended some of the classes. The class was divided into three parts, general, specific and practical. The students were given daily quizzes which were returned each day to be used as study guides. These quizzes were used to test what was being taught and what was being learned. There was a

final exam given at the end of each phase. The final general subject phase was a closed book exam, the final specific subject phase was a closed book exam but the final practical was an open book exam. I have heard these allegations but to the best of my knowledge there was not any cheating in the class. I certainly did not provide students with answers inside their test nor am I aware of anyone who might have given the students assistance. I do not feel that there is any substance to the allegations. D.E.R.

I have read the foregoing statement consisting of 2 typed pages. I have made and initialed any necessary corrections. I swear that the foregoing statement is true and correct. Signed on April 10, 1984 at 2:45 P.M.

SIGNATURE:

Dany E. Roas  
NAME

Subscribed and sworn to before me this 10<sup>th</sup> day of April 1984,  
1984 at Rock Hill SC

INVESTIGATOR:

[Signature]

WITNESS:

NAME/TITLE



STATEMENT

PLACE: Duke Power Company

DATE/TIME: 13 Apr 84

Mr. A. RAY  
I, Raymond Hollins, JR, do hereby make the following voluntary statement to E.L. Williamson who has identified himself to me as an Investigator with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

I am currently employed by Duke Power Company (DPC) as a Manager of Construction Services. I have been employed by DPC since June 1970 in various positions to include, but not limited to, Construction Engineer Welding Engineer Group; Associate Engineer, Field Engineer with the Welding Engineer Group. These various positions were mostly at Oconee & Cherokee Nuclear Stations. I have served in various positions at Catawba Nuclear Plant to include Construction Engineer Welding and Support Assistant Engineer. Prior to working for DPC I was a student at V.P.I. where I obtained a B.S. degree in Mechanical Engineering.

I have been asked to comment on my knowledge of and participation in a Quality Control (QC) Welding Inspectors Course at Catawba in 1977. As I recall I was one of four instructors. The other three being Larry Darnon, Charles Baldwin and Gary Ross. The class was divided into three areas, General, Specific and Practical. I taught the General subject area. This included metallurgy and a general overview of the QC program and procedures. Other instructors handled the other two areas. My portion of the class lasted approximately one week and ended with a final written examination. As I recall this was a closed book examination. During the week of instruction the students were given daily quizzes which were graded but not used in calculating their final grades. These quizzes were used as study guides. I think they were picked up at the end of the class.

I have heard the collection made by these people.

• STATEMENT CONTINUATION

hence welding inspector that students were provided answers to final examinations in order that everyone would pass the course. I can say that I never provided answers to examinations to anyone nor am I aware of anyone providing assistance, in terms of answers to anyone in any class. I retained the master copy and the test remained basically the same, except when a question was <sup>misunderstood by a number of</sup> ~~repeatedly asked by~~ students, it might have been changed. The questions on the daily quizzes were <sup>designed</sup> ~~changed~~ to highlight those areas that I felt were important, but recorded, so as not to be exactly the same. We cannot prevent inspectors from discussing or seeking information from former class members but this alone would not help an inspector successfully complete the course without additional individual study.

I have read the foregoing statement consisting of 2 handwritten/typed pages. I have made and initialed any necessary corrections and have signed my name in ink in the margin of each page. I swear that the foregoing statement is true and correct. Signed on April 13, 1984 at 10:22 AM.

SIGNATURE: [Signature]

NAME

Subscribed and sworn to before me this 13 day of April, 1984 at Duke Power Company, Charlotte, N.C.

INVESTIGATOR: E. L. McWhorter

WITNESS: [Signature]

NAME/TITLE

PLACE: Delta Power CompanyDATE/TIME: 13 Apr 84

As A. S. RAY  
 I, Raymond Hellins, JR, do hereby make the following voluntary statement to E. L. Williamson who has identified himself to me as an Investigator with the United States Nuclear Regulatory Commission. I do hereby make this voluntary statement without any threats having been made against me or any promises extended to me.

I am currently employed by Delta Power Company (DPC) as a Manager of Construction Services. I have been employed by DPC since June 1970 in various positions, to include, Asst Construction Engineer, Welding Engineer Group; Associate Engineer, Field Engineer with the Welding Engineer Group. These various positions were mostly at Deane & Cherokee Nuclear Stations. I have served in various positions at Catawba Nuclear Plant to include Construction Engineer, Welding, and Support Assistant Engineer. Prior to working for DPC I was a student at V.P.I. where I obtained a B.S. Degree in Mechanical Engineering.

I have been asked to comment on my knowledge of and participation in a Quality Control (QC) Welding Inspectors Course at Catawba in 1977. As I recall I was one of four instructors, the other three being Larry Dawson, Charles Baldwin and Gary Ross. The class was divided into three areas, General, Specific and Practical. I taught the General subject area. This included metallurgy and a general overview of the QC and welding procedures. Other instructors handled the other two areas. My portion of the class lasted approximately one week, and ended with a final written examination. As I recall this was a closed book examination. During the week of instruction the students were given daily quizzes which were graded but not used in calculating their final grades. These quizzes were used as study guides and I think they were picked up at the end of the class.

I have heard the allegation made by Harry Langley

I have nothing to inject that students were provided with answers to final examinations in order that everyone would pass the course. I can say that I never provided answers to examinations to anyone nor am I aware of anyone providing assistance, in terms of answers to anyone in any class. I retained the master copy and the test remained basically the same, except when a question was <sup>misunderstood by a number of</sup> ~~misunderstood by a number of~~ students, it might have been <sup>changed</sup> ~~changed~~. The questions on 16 daily quizzes were <sup>revised</sup> ~~revised~~ to highlight those areas that I felt were important. <sup>and</sup> ~~and~~ so as not to be exactly the same. We cannot prevent inspectors from discussing or seeking information from previous class members but this alone would not help an inspector successfully complete the course without additional individual study.

I have read the foregoing statement consisting of 2 handwritten/typed pages. I have made and initialed any necessary corrections and have signed my name in ink in the margin of each page. I swear that the foregoing statement is true and correct. Signed on April 13, 1984 at 10:22 AM.

SIGNATURE: \_\_\_\_\_

NAME

Subscribed and sworn to before me this 13 day of April, 1984 at Duke Power Company, Charlotte, N.C.

INVESTIGATOR: \_\_\_\_\_

WITNESS: \_\_\_\_\_

NAME/TITLE



RESULTS OF INTERVIEW WITH PETER K. VANDOORN  
ON MAY 4, 1984 AS PREPARED BY JAMES Y. VORSE

On May 4, 1984, Peter K. VANDOORN, NRC Resident Inspector at the Catawba Nuclear Station was interviewed by Investigator James Y. Vorse at 101 Marietta Street, Atlanta, GA. VANDOORN stated that he has been the Resident Inspector at the Catawba site from February 1981 to the present. Prior to that, he was an NRC Region II metallurgical engineer from 1977 to 1981. During the period April 1967 to August 1977, he was a welding engineer at the Naval Ship Yard, Mare Island, CA.

VANDOORN explained that he is very familiar with the welding inspector concerns, both technical and non-technical. He stated that a thorough, one hundred percent review of the technical concerns was done by Duke Power Company with NRC evaluation. VANDOORN stated that it was determined that there were procedural violations, most of which had been properly documented at the time they occurred. There were a few procedure problems that could have been more properly documented, but even so, there were no technical discrepancies. VANDOORN stated there was also a breakdown in communications between Charles BALDWIN, QA Technical Supervisor and Beau ROSS, QC Welding Supervisor. VANDOORN explained that BALDWIN perceived ROSS as "nit picking" and ROSS perceived BALDWIN as deficient in procedures enforcement and knowledge. Regarding non-technical issues, VANDOORN explained that he spoke to all of the welding inspectors about harassment in regard to technical problems and whether or not it resulted in backing off from their original decision. None of those who claimed they were harassed cited instances where their decision was changed as a result of the harassment. VANDOORN stated that as a result of the harassment concerns, a recourse procedure was implemented by Duke. VANDOORN stated that he looked at the harassment issue in the bottom line sense; that is, what affect did it have? In no cases did he determine the perceived harassment resulted in an inspector altering his decision.

VANDOORN stated that he believed all of the corrective action taken by Duke was adequate and there was no technical significance. VANDOORN stated he thought management should have taken somewhat stronger action in the Phillip REEP, QC welding inspector, harassment issue; however, REEP seemed satisfied with the final outcome. VANDOORN stated that he provided extensive written prepared testimony and oral testimony to the ASLB regarding all of the welding inspectors' concerns.

END OF RESULTS OF INTERVIEW WITH PETER K. VANDOORN ON MAY 4, 1984

  
James Y. Vorse, Investigator

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