



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA ST., N.W. SUITE 3100
 ATLANTA, GEORGIA 30303

MAR 16 1981

SSINS 50-400, 50-401
 50-402, 50-403

MEMORANDUM FOR: C. Alderson, Director, Enforcement and Investigation, RII
 THRU: *MMH* *JMC* E. Murphy, Chief, Engineering Inspection Branch, RII
 WRT
 A. R. Herdt, Section Chief, Engineering Inspection Branch, RII
 FROM: N. Economos, Reactor Inspector, MPS, Engineering Inspection
 Branch, RII *WRT*
 SUBJECT: ALLEGATIONS - ACTIVITIES OF QA PERSONNEL AT SHEARON HARRIS
 NUCLEAR PLANT (DOCKET NOS. 50-400, 50-401, 50-402 and 50-403)

During a routine inspection of the Shearon Harris Nuclear Plant conducted between February 18-20, 1981, two of three individuals interviewed reiterated certain allegations which they had made to the NRC resident inspector earlier. A description of these allegations were as follows:

1. Individual "A" alleged that:
 - a. Individuals without previous experience in hanger inspections are given a short how-to course in this area; upon successful completion of the course they are given a 90-day temporary qualification and assigned to the hanger inspection crew. The allexer questions the competency of these individuals and the adequacy of their work.
 - b. Certain welding inspector candidates were given copies of proficiency examinations for home study and then allowed to take the examination until a passing grade was attained.
 - c. The site QA Director rewrites (sanitizes) all deficiency disposition reports (DDRs) generated by field QA personnel before approving them for further action.
 - d. The site QA Director discusses with Construction Inspection (CI) Supervisor problems identified by field QA personnel and in many cases corrective action is taken without generating NCRs or DDrs as required by site procedures.
 - e. QA personnel are demoralized because the QA Director does not support them in disputes with engineering and/or management.

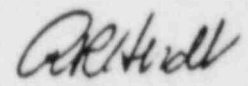
8406010067 840403
 PDR FOIA
 VADEN83-413 PDR

45 46

2. Individual "B" alleged that:

- a. The QA Director has ordered him to confine his activity to areas within his discipline only. That is if during the inspection of an electrical pull box or a cable tray, he identifies a welding and/or a mechanical problem and finds that the electrical aspects are acceptable, he is to restrict his comments to the electrical aspects only and make no comments on the other problems.
- b. Repeated items 1.d and 1.e above.
- c. The QA Director has instructed him not to issue NCRs for QC inspection reports found to contain discrepancies. Instead he was instructed to bring the problem to the attention of the responsible party and have it corrected. The following is an example used to support his point: Form No. TP-09 Concrete Embedded Electrical Equipment Inspection Form, Pour No. 1-ACSL-305-005 1/14/81 and 1-ACSL-305-007 2/4/81.

Finally after meeting with the inspector in the NRC trailer, which is in full view of the site manager's and the resident engineer's offices, the alleged stated that he was summoned to the QA Director's office where he was instructed, by the QA Director not to talk to NRC unless he cleared it first with him or unless the NRC inspector asked him a question. In this case the alleged stated that he was instructed to answer in short and to the point. The alleged stated that the QA Director informed him that unless he follows these instructions he would be in trouble.


N N. Economos

Contact: N. Economos
 (Ext. 4667)

MEMORANDUM TO CASE FILE

TYPE ACTION

- RECORD OF CONVERSATION
- CASE REVIEW / STATUS
- OTHER

PARTICIPANTS

Vorse + Chas. Buyer

FILE NO

26027

DATE

07-07-92

TIME

CONFIDENTIALITY REQUESTED YES NO

SUMMARY

I briefed Buyer on this case. He attempted to brief Upright who replied that it is not within his purview to review the site documentation for adequacy. Buyer told me he would try to get Upright to do something about it. I told Buyer that the ~~the~~ Investigative Staff has no further actions in this matter and that I would brief anyone deemed necessary.

PAGE OF

PREPARED BY

Vorse

DATE

ACTION REQUIRED

REVIEWED BY

DATE



4647

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO
	<i>Vorse + Maxwell (919) 362-0602</i>	<i>24027</i>
	CONFIDENTIALITY REQUESTED YES NO	DATE <i>05-10-82</i>
		TIME <i>10:00</i>

SUMMARY

I called George Maxwell to get an update regarding CP4L's investigation into the Karginy incident. George advised me that CP4L is continuing their investigations and that many leads have been found to be

PAGE OF

PREPARED BY

DATE

ACTION REQUIRED

REVIEWED BY

DATE

MEMORANDUM TO CASE FILE

TYPE ACTION

- RECORD OF CONVERSATION
- CASE REVIEW / STATUS
- OTHER

PARTICIPANTS

VORSC + Maxwell

FILE NO

24027

DATE

4-15-82

TIME

CONFIDENTIALITY REQUESTED YES NO

SUMMARY

Eso Maxwell informed me that telephone number is

PAGE OF

PREPARED BY

DATE

ACTION REQUIRED

REVIEWED BY

DATE

49 48

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	VERSE, Maxwell, Montcastle	DATE
	Frank Taylor + Williamson	04-09-82
CONFIDENTIALITY REQUESTED YES NO		TIME
		1330

SUMMARY

George Maxwell called and informed me that Steve Montcastle (welding inspector) had his initials forged on a field copy of a weld data report (WDR) such that welds which he had rejected are still rejectable. I asked George to have Montcastle come to his office and talk to me.

1412- Montcastle was with Frank Taylor (Mechanical/Welding QC Supervisor) and he provided the following information: on June 8, 1982, he rejected several welds on hanger CTH-459. Sometime very recently, Bill Peere, who reviews field packages including WDR's, thought something was wrong with the initials on the WDR which reflected that on June 14, 1982 the welds were acceptable. The WDR had Montcastle's initials, but do not look like his initials. Montcastle looked at the welds and they were not acceptable. Montcastle is leaving for a job in New York but advised any correspondence can be sent to:

CPAL is investigating
 Maxwell told others that he has signed Peere + Trigen's initials to WDR's.
 Maxwell said he will bring the WDR in question + obtain information from Montcastle.

PAGE OF

PREPARED BY Verse	DATE
ACTION REQUIRED	
REVIEWED BY	DATE

[Lincoln, NC]
JANUARY 12, 1982

I, [James W. Kilgore] make the following free and voluntary statement to Mr. J. J. Vorse who has identified himself to me as an investigator with the U.S. Nuclear Regulatory Commission. No threats or promises have been extended to me. I am a pipefitter helper and have been working as such at Sharon Harris since September 1980 to the present time. I am employed by Daniels Construction Company.

Off and on, for about 20 times, about 1 hour on the average each, I assisted [] in locating welds and he would inspect them. Most of these welds were in waste process building. I would say most of the welds were easily accessible. On September 9, 1981 [] looked at some welds off the MY column and column 2, East West Hallway in the Waste Processing Building. He did not inspect them because they were located about 20 feet above us and there was no way to get to them. [] simply filled out the stickers, initialed them and handed both of them to me and ~~told~~ told me to put them on. I told him I would, but I didn't. I later put one of them on my lunchbox and gave the other to George Maxwell ^{after} he asked me for it. I also observed [] ~~fill out the~~ ^{fill out} sign the welding inspection sheet. He handed me the

51
4/6/80 [James W. Kilgore]

At the same 2 welds and
Carbon copy. This was turned over to the foreman.
Those were the only two welds I saw him not look at.

[] - [] always seems like he is in a hurry. These inspections
were all on non safety related welds, all class 7c

I have read the above Statement consisting of 2 pages which
were written by Mr. Vorse at my request. I have made
necessing corrections, initialed mistakes and I declare
under penalty of perjury that it is true and correct.

[James W. Kibbey]
Date and time 1-12-82 7:25

attested: James G. Vorse

Shearon Harris Nuclear Station
Merry Oaks, NC
December 17, 1981

I, _____, make the following voluntary statement to Mr. J. Y. Vorse who has identified himself to me as an investigator with the U.S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises or reward extended to me. Mr. Vorse is writing this statement for me at my request.

I reported to CP+L's Shearon Harris site on [September 29] 1980. I did one week of required reading and took 5 examinations whereupon I was certified as a welding inspector. I had 10 years of previous welding experience and certified in AWS, ANSI, ASME, NDE, PWHT Stud Welding, and others except for RT.

I began inspecting hangers in October 1980. Most of these were those which had to be reinspected but I inspected some new ones, too. I worked with a trainee named [Steve Montcastle] most of the time. Engineering provided us with the checklist to use. While reinspecting the welds we noticed, although we were not looking for them, numerous, what I consider cosmetic defects. That is, things like splatter, arc strikes, welder symbol on heat affected zone. We told [Vic Satarick] the QA welding inspection supervisor about this and he said to start putting the information on the drawing. We then started putting reject

on the checklist and engineering would evaluate. Prior to this we rejected the hanger weld only if the defect not on the checklist was so flagrant that the weld was not passable. Many of the welds to be reinspected we could not see too well because there was so much rust on them. We had wire brushes to clean them with but really a power wire brush was required to clean the weld up enough to really see it.

The welding reinspection program was finished about February or March 1981. I then went to dedicating most of my time inspecting new pipe hangers. I did this for months by myself until November 16, 1981 when [Ken Stanley] a trainee, started helping me. Regarding the trainees, I was always with them when they inspected the welds. I decline to state where my exact physical location was except that I was in the ~~immediate area~~ vicinity. I always signed the paperwork when the trainee found that a weld was acceptable.

Sometime around April 1981, Ebasco started sending revisions for the reinspection of pipe hangers. On about 100 or so hangers, during about a 3 month period, welding was not required, it only required a welding inspector's signature. I was not going to sign anything unless I was sure the hanger was there and not cut down or something. I ~~might~~ would go all over the plant to look at these hangers and I would have a welder or pipe fitter, ^{mess} go up the scaffolds or ladder, if present, to put

[Signature] 2/17/81

[Signature] 2/17/81

indicating the date that the hanger
was inspected to the latest revision [] 2/17/81

the sticker on the hanger reflecting the ~~latest~~ revision.
Also, during the month of July 1981 I developed a bad case
of arthritis and had difficulty getting around but the
foremen were cooperative about getting someone to help me
with ladders, scaffolds etc.

About 2 months ago I was told to reject welds for gaps
and members of weld size was not increased. As a result I
had to reject welds which were proper according to the
drawing but not the traveler with engineering comments.
As a result several welders got reprimanded and told
that if they got 3 rejects they were fired. It was about
this time that rumors were started about me.

Also, on ~~some~~ occasion while inspecting a hanger and there is
another hanger finished in the vicinity, I will inspect that hanger
even though I don't have the request chit. I use the foreman's
package while inspecting. I will later sign off the chit when I
get it, ~~later~~ usually within a day or two. To me this represents
a good working relationship with welders because if I have a
reject, they can repair the weld without getting a reject out
in trouble.

I wish to state that I have never signed off a weld that has
not been looked at by someone who I feel are qualified.
I have read the foregoing statement consisting of ~~two~~ three hand-
written pages. I have made any necessary corrections and initialed.
The content of the statement is the truth to the best of my
knowledge and belief. I declare under penalty of perjury
that the foregoing is true and correct.

Sharon Harris Nuclear Plant
Meary Oaks, NC
December 15, 1981

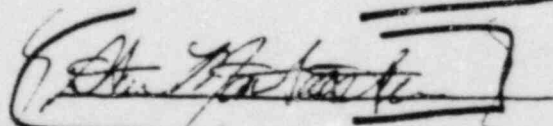
I, [Steve W Montcastle] hereby make the following voluntary statement to Mr J. Vorse who has identified himself to me as an Investigator with the U.S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises extended to me.

I am presently a QA. Welding Insp. I, inspecting primarily Hangers. I have been working at SHADD for 3 1/2 yrs. with 1 yr. QA. welding experience. Certified ~~in~~ in Visual Examination of welds. I began my training in 9/80 primarily. I spent about 1/2 of ~~to~~ my time with ~~;~~ we were working on the site. After 2 months I began inspecting hangers for ~~that~~ that were hard to get to. I would fill out the ~~status~~ QA. Accept sheets and give them to me. If I found the hanger acceptable I would apply Accept tag. If rejectable I would ~~inform~~ inform of the problems and ~~the~~ he would record the problems on seismic I will (QA-34). He would put his initials on all documentation.

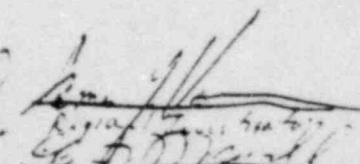
Steve Montcastle 12/15/81

By putting his initials on the DA-34 form, he stated he did the inspection. There were about 50-75 hangers which I did the inspection for him, most of them were at hard to get locations, located mostly in ~~at~~ 190' el. & 236 el. of RAB. All this occurred before I became certified in 1/81. Once I became certified I did the inspections myself. Before I was certified in my opinion I over-inspected any hangers ~~where~~ ^{where} ~~the~~ ^{the} welds were questionable. If unsure of a weld I would reject it. In my opinion the welds ~~were~~ that were accepted were acceptable to AWS D1.1-75 standards.

I have read the foregoing statement consisting of two handwritten pages. I have made any necessary corrections and initialed them in ink. I have signed the first page in the left hand margin. This statement is the truth to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct.



Date + time 12/15/81 10:10 AM

Witnessed 
SPE Harry Sk

Sharon Harris Nuclear Plant
Minty Oaks, NC
December 15, 1981

I, [Kenneth B. Stanley], make the following voluntary statement to Mr. J. Y. Horse who has identified himself to me as an Investigator with the U.S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises extended to me.

I have been working at Sharon Harris for CP&L since [September 8, 1981]. I certified as a welding inspector in early November, 1981. I was required to get 80 hours OJT to become certified. I also had 6 years welding experience and two years of technical school training in Metallurgy. Prior to working for CP&L. During the month of October 1981, I was receiving OJT for pipe hangers with [] providing my instruction. I would estimate I spent 3 weeks with [] 40 hours each week, inspecting the pipe hangers primarily in elevation 236 in the Reactor Auxiliary Building, prior to my certification. I estimate that about 75% of the hangers were inspected by me alone. These were the ones high up and required climbing on the scaffolds and those which were inaccessible. These were SW, CC and PD hangers mostly. [] would give me the stickers and I would climb the scaffold and inspect the hanger weld, while [] stayed on the floor the sticker had already

[Ken B Stanley]

been filled out by [] If I accepted the welds, I placed the sticker on the hanger. I would initial the WDR Air QA 34 and the Traveler. If the weld was rejected by me, I would tell [] what was wrong with the weld. The first couple of times he climbed up the scaffold and looked at the welds and ~~at the welds~~ that agreed with me. Thereafter he accepted all of my rejected welds. I would estimate this type of situation occurred on about 100 hangers before I was certified. However, I was so busy trying to learn all of the facets of the job I really did not pay attention to the number of hangers I inspected. The welds I inspected I did according to AWS D. 1. 1975 Section 9. [Cross] 12-15-81

I have read the foregoing statement consisting of two handwritten pages. I have made any necessary corrections and initialed them in ink. Mr. Morse wrote the statement at my request. This statement is the truth to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct.

Ben B. Stanley

Date and time 12-15-81 11:40 AM

Witnessed by [Signature]
Inspected Investigator

[Signature]

SRI Honor Site

December 15, 1981
Sherrill Harris Nuclear Site
December 16, 1981

I, [Donald A. Sands] make the following free and voluntary statement to Mr. J. Vorse who has identified himself to me as an investigator with the U.S. Nuclear Regulatory Commission I make this statement with no threats or promises extended to me. Mr. Vorse is writing this statement for me at my request.

I am working for Daniels Construction Company, Technician Services ^{LABORATORY} ~~LABORATORY~~ CP+L QA welding as a welding inspector. When I first started on this assignment in late [September 1981] I did some welding inspections with a QA welding inspector for CP+L. The first couple of evenings I had me climb around the scaffolds and check the welds. He would do the paperwork. On a Saturday, I was up on a scaffold and looked at a weld on a hanger brace which was welded on 3 sides only. The top portion of the brace had no weld. I related this to [] and also related that there was another brace 6 feet away that I could not see. I observed [] who was standing on the floor about 25' below the hanger, shine his flashlight on the brace and said it was OK. Neither of us got any closer to the brace. I was not happy.

[Donald Sands]

about this and reported it to ~~Mr~~ [Ferry White] the
Building ^{QA} Supervisor. He said words to the effect that they
would look into it. Nothing more was said about this
incident. I declined to work with [] after that.
I have read the above statement consisting of two pages. I
have made any corrections and initialed them in ink. This statement
is the truth to the best of my knowledge and belief. I
declare under penalty of perjury that the foregoing is true
and correct.

[Donald Sand]

Date and time Dec 16, 1987 2:36 PM.

witnessed: [Signature]
Investigator, NRC

[Signature]
SRI Harris site

Shearon Harris Nuclear S.
Merry Oaks, DC
December 16, 1981

I, [Nancy C. Sutton] make the following free and voluntary statement to Mr. S. Y. Vorse who has identified himself to me as an Investigator with the U.S. Nuclear Regulatory Commission. I make this statement with no threats or promises extended to me. Mr. Vorse is writing this statement for me as I discuss it with him.

I am a welder for Daniels Construction Company, crew P-20. I have been working in the waste process area elevation 236, which adjoins the RAB. Sometime in late spring or early summer, I was assigned to assist a QA welding inspector. Normally, when I worked with [Pete Tingen] I showed him where the welds were and he went from there. As a QA welding inspector, however, with almost always he would hand me the QA sticker, already filled out, and I would climb up the ladder, scaffold or underneath a pipe and attach the sticker. I would sign the paper work for the weld. At no time during those instances would he visually check the weld. He would stay on the floor. This was on a Saturday and it was just him and me. There was no one else around. I would

[Nancy C. Sutton]

estimate that I attached stickers to at least 100
category 6 and 7 ^(N.S.) pipes (now safety related).
This is the only time I worked with . I have also
heard the same thing from some other people who have
worked on safety related systems. [Kim Norton] told me
that does not inspect them if they are high.
[Kilgore] told me that does not look at the welds.
[Kilgore] works in fuel handling now but did work in
waste process on our crew for a while.

I have read the foregoing statement consisting of two
pages. I have made any necessary corrections and
initialed them in ink. ^(N.S.) ~~Mr. [Name]~~ This statement is the
truth to the best of my knowledge and belief.
I declare under penalty of perjury that the foregoing
is true and correct.

[Francis C. Suttore]

Date + Time 12-16-81 - 11:00 AM

witnessed: [Signature]
Regional Investigator
[Signature]
Resident Inspector

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CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Procedure Deviation Notice

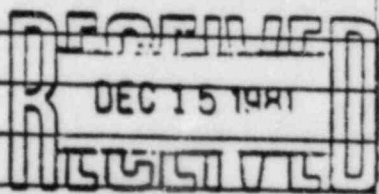
PGD-002

Procedure No. AP-XIII-07 Revision No. 15 Deviation No. 1

Procedure Title MATERIAL MAINTENANCE REQUIREMENTS DURING STORAGE FOR SHEARON HARRIS NUCLEAR POWER PLANT

Applicable - FCR's:

DCN's:

Affected Paragraphs	Description of Deviation
	PLEASE CHANGE PARAGRAPH # 1 ON PAGE 2 TO READ AS FOLLOWS:
	FOR EQUIPMENT LANDED IN THE POWER BLOCK THE FORMS WILL BE TRANSMITTED TO THE MAINTENANCE CREW SUPERVISOR. SHOULD IT BECOME NECESSARY TO REVISE FIELD MAINTENANCE LOGS INSTRUCTIONS, THE REVISION WILL BE MADE ON THE ORIGINAL LOGS AND A COPY WILL BE TRANSMITTED TO THE MAINTENANCE CREW SUPERVISOR. THE OLD REVISION OF THE WORKING LOG WILL BE DISPOSED OF. THE ENTIRE PROCESS FROM RECEIPT OF AN ITEM TO ITS INCORPORATION IN THE MAINTENANCE PROGRAM SHOULD TAKE NO LONGER THAN TWENTY-EIGHT DAYS.
	DOCUMENT CONTROL
	
	SHEARON HARRIS N. P. P.

The approval of this Procedure Deviation Notice authorizes deviation from the named procedure to the extent described above.

The holder of the affected procedure shall retain this notice with the procedure until the next procedure revision is in effect.

	Approvals	Date
Originator	<i>Von Wilson</i>	12/15/81
CP&L	<i>Chad Luce</i>	12/15/81

52
1/6
74

APR 23 1976

MAR 11 1976

DOCUMENT CONTROL

RECEIVED
JAN 16 1976
RECEIVED

SHEARON HARRIS N. P. P.

MAR 7 1976 Rev 1

CAROLINA POWER AND LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
PGD-002 (AP-XIII-07)

DEC 1 1981 R.15
NOV 6 1981 R.14
SEP 18 1981 R.13
MAR 31 1981 R.12
OCT 30 1980 R.11

MATERIAL MAINTENANCE REQUIREMENTS DURING
STORAGE FOR SHEARON HARRIS NUCLEAR POWER PLANT

OCT 09 1979 R10

JUL 27 1977 R7

MAY 10 1977

FEB 22 1976 R6

MAY 26 1978 R5

Rev	Description	Approvals	Date
0	First issue transmitted by Document Control	Originator	Edward A. McLean 1/19/76
		Resident Engineer	J.C. James 1/16/76
1	Changed All Over	Originator	Edward A. McLean 2/26/76
		Resident Engineer	J.C. James 2/26/76
2	General Revision	Originator	Edward A. McLean 3/8/76
		Resident Engineer	J.C. James 3/9/76
3	General Revision	Originator	Edward A. McLean 3/31/76
		Resident Engineer	J.C. James 3/11/76
4	Revised As Noted	Originator	Edward A. McLean 4/21/76
		Resident Engineer	J.C. James 4/23/76
5	Changed paragraph D.I Electric Motors - Attached Revised Maintenance Log Fm.	Originator	Edward A. McLean 5/25/76
		Resident Engineer	J.C. James 5/25/76
6	Revised As Noted	Originator	C. Mitchell / E. H. McLean 2/15/77
		Resident Engineer	J.C. James 2/16/77
7	Revised As Noted	Originator	C. Mitchell / E. H. McLean 4/25/77
		Resident Engineer	R.M. Lujan 4/26/77
8	Revised As Noted	Originator	C. Mitchell / E. H. McLean 5/4/77
		Resident Engineer	R.M. Lujan 5/6/77
9	Revised As Noted	Originator	C. Mitchell 7/27/77
		Resident Engineer	R.M. Lujan 7/27/77
10	Added Identifying Procedure Number. Revised as Noted.	Originator	Edwin Dorman 10-8-79
		Resident Engineer	R.M. Lujan 10-8-79



Carolina Power & Light Company

Company Correspondence

March 29, 1982

MS-9456

MEMORANDUM TO: Mr. B. B. Ison

FROM: A. M. Lucas

SUBJECT: Shearon Harris Nuclear Power Plant
#67 Stone Gradation Problem

As a result of the increased numbers of failing gradations at the batch plant, I requested that the situation be investigated.

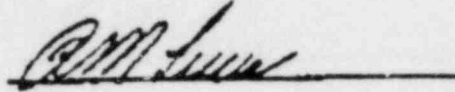
Billy Bridgen and Jim Paul visited the Wake Stone Quarry in Moncure on Friday, March 26, 1982. They found no reason for our gradation problem at the quarry. We observed their gradation records for the month of January 1982. They performed several gradations per day during this time with all tests meeting the required gradation band. Several times during the month a state inspector was present during the sampling and testing. They toured the stockpiles of #67 stone and observed the loading of two trucks from the stockpile. The stockpiles are constructed on a stone mat to prevent soil contamination. The stone is end dumped at the base of the stockpile and then pushed into the stockpile by end loader. The total height of a stockpile is approximately 10 feet. It should be noted that Wake Stone has stockpiled #67 stone for our use and no further gradation changes can be made at the quarry.

Jim Paul toured the batch plant stone handling area on Tuesday, March 23rd with Bill Cagle. Bill ran through the sampling and testing procedures used by QA. All of the failing tests during January, February, and March 1982 were on the over 200 yd³ gradation tests. These samples are obtained when the quantity of concrete placed in one day exceeds 200 cubic yards. The daily sample is pulled at the end of the work day and a wet sieve analysis is performed. If the wet sieve analysis is out, the stockpile is drawn down and another sample is pulled. This procedure is repeated until a passing wet sieve analysis is obtained. The failing material is pulled from the plant and passed through the screening plant before returning to the stockpile.

The failing tests are caused by the method of stockpile construction. The stone is deposited in a cone shape by an elevated conveyor. The stone is pulled from the stockpile by gates under the pile. As the stone is pulled from the pile, an inverted cone is formed. This procedure tends to pull the smaller size stone down into the gates first. The problem may be corrected by constructing a flat stockpile and then not drawing down the stockpile so low that large inverted cones are formed. We have suggested this several times before, and each time it is implemented, the gradation tests are acceptable. Please ensure that the

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personnel at the batch plant are aware of our concern over this increased rate of failing gradations and that the above recommended action is taken to reverse this negative trend.



JEP/ab

cc: Mr. E. M. Parsons
Mr. E. L. Kelly
Mr. W. O. Pridgen
Mr. J. R. Paul
Mr. K. Brown
Mr. G. L. Forehand

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT

DEFICIENCY AND DISPOSITION REPORT

Procedure CQC-2

Deficiency Name or Description CABLE TRAY SUPPORT INSPECT.	Shop Order N/A	Code Class 1E AND NON-1E	Quantity N/A	Unit 1	Quality Assurance (PO & Item No.) QA-435130
Serial, Heat or Other Identification No. N/A	Supplier or Manufacturer PEDEN		Type of Procurement <input type="checkbox"/> CP&L PO <input type="checkbox"/> Trans <input checked="" type="checkbox"/> A-E PO <input type="checkbox"/> NSSS		
Violation (Specification, Drawing, Procedure or Other) TP-42, WP-203+EBASCO 2168 SERIES DRAWINGS	NCR No. N/A	Reporting Inspector Jon West 5/6/8 W.C. Roberts 5/4/8			

Deficiency Details: A review of procedures TP-42, WP-203 and interviews with key C.I. personnel has determined that Electrical C.I. is not performing an adequate inspection on cable tray supports.

C.I. does not utilize the Peden 1364 series drawings as specified on the Ebasco 21-9 series drawings, TP-42, Section 4.3 Para. 3 and WP-203, Section 2.0, Para. 2.13 and Section 4.0, Para. 1.

This failure to follow procedures make all cable tray supports that are seismically installed and accepted by C.I. unacceptable for Q.A. records.

DDR Evaluation		
<input checked="" type="checkbox"/>	Construction Phase	
<input type="checkbox"/>	Engineering Phase	
<input type="checkbox"/>	QA Program Violation	
<input type="checkbox"/>	Specification Deviation	
<input checked="" type="checkbox"/>	Procedural Deviation	
<input type="checkbox"/>	Unacceptable Workmanship	
<input type="checkbox"/>	Damage/Defect	
<input type="checkbox"/>	Other	
<input type="checkbox"/>	Not Reportable*	
	Site QA/OC	QA Engr. HPES
Eval. By -		
Date		

*UNDER EVALUATION BY

W.C. Roberts
QA/QC Specialist/Engineer

Final Disposition: Verified Hold Tags Removed

Remarks:

QA/QC Inspector _____ Date _____

Accepted by:

QA/QC Specialist/Engineer _____ Date _____

- Distribution:
- Orig: Director - QA/QC - SHNPP
 - CC: Proj. Gen. Mgr./Sr. Res. Engr.
 - Gen. Mgr. (SU/Operations)
 - Reg. Comp. Unit (SU/Operations)
 - Initiating QA/QC Specialist
 - Accounting
 - Mgr. - E&C QA/QC
 - Mgr. - HPES
 - Start-Up CA *E. T. ...*

ANI Concurrence (ASME Code Section III Items Only)

Authorized Nuclear Inspector _____ Date _____

Report Closed:

Director - QA/QC - SHNPP _____ Date _____

SU 53

10

Proposed Disposition:

- Repair Rework Reject (Return to Vendor)
- Upgrade Code Certification Downgrade Item
- Reject (Scrap) Permanent Waiver (Accept-as-is)
- Other (describe below)

Details:

Recommended By:

Approved By:

 Discipline Engineer/
 Responsible Supervisor Date

 Proj. Gen'l. Mgr., Jr. Eng., Engr.,
 Mgr. HPES/ General Mgr.

Corrective Action and Final Disposition:

Documented Cause & Preventive Measures required:

- Yes ^{RES}
- No

Signature

Details:

Cause:

?

Preventive Measures:

Approved By:

SS 54

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
POTENTIAL REPORTABLE ITEM TRAVELER
(PART 50 ITEMS)

Traveler No: DR/DDR/NGR/REF

Subject: CABLE TRAY SUPPORT INSPECTION

A. CI/OA Supervisor

Signature

Date

1. Initiate Traveler
2. Attach DR/DDR/NGR/REF and other Data

[Handwritten Signature]

B. CI/OA Unit Supervisor & Discipline Engineer (Civil/Mech/Elect)

1. Review and Check, as Applicable

Condition Represents:

Yes

No

Deficiency in Design

Deficiency in Construction

Breakdown in QA Program

Nonconformance of Design to SAR/CP

Nonconformance of Construction to Design

Damage/Defect

Deviation from Performance Specs

Reportability Evaluation:

Item is significant/indeterminate. Need other evaluation.

Item is not reportable per paragraph _____ of this procedure.

2. Comments (Attach Data, as Appropriate):

C. Site Management

1. Review and Check, as applicable

Reportability Evaluation:

Yes

No

Significance for Reportability

Could Adversely Affect Safety

Is Reportable/Potentially Reportable

2. Comments (Attach Data, as Appropriate):

3. If Reportable/Potentially Reportable, Notified:

a.

(CP&L Management)

b.

(E&C QA)

c.

4. If Reportable/Potentially Reportable:

a.

Initial written report due _____

b.

Report responsibility assigned to: _____

D. Site Quality Assurance

1. Distribute Traveler
2. Maintain File of Traveler and Data Package

Distribution:

Site Manager*
 Resident Engineer
 Repairer* *[Handwritten]*
 Discipline Engineer *[Handwritten]*
 DCC*

SURVEILLANCE ACTIVITY/AREA/LOCATION/ELEVATION:
CABLE TRAY SUPPORT INSPECTION

ITEM ID NO.: N/A

DESCRIPTION: PEDEX ELECTRICAL HANGERS

QUALITY CLASS: 1-E + NON-1E (SEISMICALLY SUPPORTED)

REFERENCE DOCUMENTS:
CQA-88, REV. 1
TP-42, REV. 4
WP-203, REV. 6

PERSONNEL CONTACTED:
RAY SCOTT/HARRY KETCHUM
TERRY HELMS/TAMM JONES
JAIRO GUZMAN

PHASE (CIRCLE ONE) N/A

	INSTALLATION		INSPECTION	
PRE-INSTALLATION	WITNESS	PST-INS	WITNESS	PST-INS

SUMMARY: A review of procedures TP-42, WP-203 and interview with key C.I. personnel has determined that Electric C.I. is not performing an adequate inspection on cable tray supports.

C.I. in accordance with oral instructions and interpretation of procedures by C.I. supervision do not utilize the Pedex 1364 series of drawings as specified. The requirements for using the Pedex 1 series drawings are listed below:

- 1) TP-42, Section 2.0, Para. 2.1 requires C.I. to cognizant of WP-203.
- 2) WP-203, Section 2.0, Para. 2.13 requires the use of Pedex Steel Shop Fabrication Drawings.
- 3) TP-42, Section 2.0, Para. 2.9 requires C.I. to use Ebasco 2166 + 2168 series drawings.
- 4) Ebasco 2168 series drawings requires C.I. to use the Pedex 1364 series drawings. By referencing the series in the Referenced Drawings List.

This failure to follow written instructions

PERFORMED BY: W. J. Roberts DATE 5/5/83
 _____ DATE _____
 _____ DATE _____

REV. 10/1/80

QA SURVEILLANCE REPORT
CONTINUATION SHEET

~~and proper drawings make all cable trays supports that are seismically installed and accepted by Electrical CE in the past or in the future without the use of the Fellen 1364 series drawings available for Q.A. records.~~

~~This non conformance has been documented on DDR#~~

TO: ALL QA-S PERSONNEL

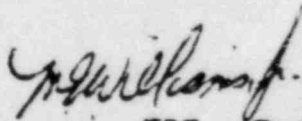
FROM: D.C. WHITEHEAD

DATE: APRIL 29, 1983

SUBJECT: DDR NUMBERS

TO COMPLY WITH CQC-2 AND TO INCREASE PERSONNEL PRODUCTIVITY, EFFECTIVE IMMEDIATELY DDR NUMBERS MAY BE OBTAINED BY QA-S INSPECTORS/TECHNICIANS SO THE DDR NUMBER CAN BE SHOWN ON "HOLD TAGS" ATTACHED TO ITEMS. THIS WILL ELIMINATE OUR CURRENT PRACTICE OF APPLYING "HOLD TAGS" WITHOUT DDR NUMBERS AND RE-TAGGING WHEN THE DDR NUMBER IS ISSUED.

TO PRECLUDE PROCEDURAL VIOLATIONS (I.E., TIME VIOLATIONS - EXCEEDING FOUR DAYS) AND EXTRANEOUS WORK (VOIDING DDPS WHEN IT IS DETERMINED THAT A DDR CONDITION DOES NOT EXIST), THESE DDR NUMBERS ARE TO BE OBTAINED ONLY AFTER DISCUSSION WITH AND CONSENT OF THE APPROPRIATE SPECIALIST.



FOR D.C. WHITEHEAD

7

DDR No. 752
Issue Date 1/11/88
Page 1 of 1

CORRECTIVE ACTION REPORT
(Procedure CQC-2)

Proposed Disposition:

- Repair
- Rework
- Reject (Return to Vendor)
- Reject (Scrap)
- Permanent Waiver (Accept-as-is)
- Upgrade Code Certification
- Downgrade Item
- Other (describe below)

Details:

Recommended By:

Approved By:

<u>Discipline Engineer</u>	<u>Date</u>	<u>Site Mgr/Sr. Res. Eng./Mgr. HPES</u>	<u>Date</u>
----------------------------	-------------	---	-------------

Corrective Action and Final Disposition:

Documented Cause & Preventive Measures required:

Yes 

No

Details:

Signature _____ Date _____

Cause:

Preventive Measures:

Approved By:

56
~~24~~
24

<u>Discipline Engineer</u>	<u>Date</u>	<u>Site Mgr/Sr. Res. Eng./Mgr. HPES</u>	<u>Date</u>
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CAPE POWER & LIGHT COMPANY
 SHELBY HARRIS NUCLEAR POWER PLANT
 POTENTIAL REPORTABLE ITEM TRAVELER
 (PART 50 ITEMS)

AP-13-1
 6

Traveler No: DR/DDR/NCR/RIR 77

Subject: Installation of Safety Related Equipment

A. CI/QA Supervisor
 1. Initiate Traveler
 2. Attach DR/DDR/NCR/RIR and other Data

Signature: [Signature] Date: 1/2/12

B. CI/QA Unit Supervisor & Discipline Engineer (Civil/Mech/Elect)

1. Review and Check, as Applicable
 Condition Represents:
- | Yes | No | |
|-------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Deficiency in Design |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Deficiency in Construction and |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Breakdown in QA Program |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Nonconformance of Design to SAR/CP |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Nonconformance of Construction to Design |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Damage/Defect |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Deviation from Performance Specs |

Reportability Evaluation:
 Item is significant/indeterminate. Need other evaluation.
 Item is not reportable per paragraph _____ of this procedure.

2. Comments (Attach Data, as Appropriate):

C. Site Management

1. Review and Check, as applicable
 Reportability Evaluation:
- | Yes | No | |
|--------------------------|--------------------------|--------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Significance for Reportability |
| <input type="checkbox"/> | <input type="checkbox"/> | Could Adversely Affect Safety |
| <input type="checkbox"/> | <input type="checkbox"/> | Is Reportable/Potentially Reportable |
2. Comments (Attach Data, as Appropriate):

3. If Reportable/Potentially Reportable, Notified:

a. _____
 (CP&L Management)

b. _____
 (ESC QA)

c. _____

4. If Reportable/Potentially Reportable:
 a. Initial written report due _____
 b. Report responsibility assigned to: _____

D. Site Quality Assurance

1. Distribute Traveler
 2. Maintain File of Traveler and Data Package

Distribution: _____ Engineer
 _____ Construction Manager

57 28 96

Activity Name or Description <i>Inspection of Safety Related Equipment</i>	Shop Order <i>NA</i>	Code Class <i>3</i>	Quantity <i>5</i>	Unit	Quality Assurance Num. (Purchase Order & Item No.) <i>QA-NA</i>
---	-------------------------	------------------------	----------------------	------	--

Material, Heat or Other Identification (Specify) <i>SEE BELOW</i>	Supplier or Manufacturer <i>NA</i>	Type of Procurement <input type="checkbox"/> CP&L PO <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> A-E PO <input type="checkbox"/> NSSS PO
---	---------------------------------------	--

Relation (Specification, Drawing, Procedure or Other) <i>1P-XB1-07 (PGD-002) WP-106 PARAG. 3.8</i>	NCR No. <i>NA</i>	Reporting Inspector <i>Tom M'Luidy - Tommy Dill</i>
---	----------------------	--

Efficiency Details:

While performing a surveillance of safety related equipment and the crew who performs the maintenance, the following condition was noted: The maintenance crew performing the inspection did not inspect the equipment for damage as referenced in PGD-002, as evidenced that the polyethylene was not removed from the equipment. The maintenance crew signed off the inspection without signifying they had inspected the equipment on exhibit 1, WP106. See attached speed letters informing NPSD of similar discrepancies. The following equipment is affected.

- DDR EVALUATION
- Construction Phase
 - Engineering Phase
 - QA Program Violation
 - Specification Deviation
 - Procedural Deviation
 - Unacceptable Workmanship
 - Damage
 - Other
 - Not Reportable
- | | | |
|------------|----------|----|
| Site QA/QC | QA Engr. | HP |
|------------|----------|----|

Evaluated by _____
Date _____

F.W. Lytle
QA/QC Specialist

1/21/92

Final Disposition: Verified Hold/Reject tags removed

Remarks:

QA/QC Inspector _____ Date _____

Accepted By:

QA/QC Specialist _____ Date _____

- Distribution:**
- Original: Director - QA/QC - SHNP
 - cc: Site Mgr./Sr. Res. Engr.
 - Initiating QA/QC Specialist
 - Accounting
 - Mgr. - E&C QA/QC
 - Mgr. - HPES
 - E Site QA Representative
 - NSSS Site Representative
 - ANI

ANI Concurrence (ASME Code Section III Items Only):

Authorized Nuclear Inspector _____ Date _____

Report Closed:

Director QA/QC - SHNP _____ Date _____

QA/QC REPORT CONTINUATION SHEET

Report No. DDR-797

Page 2 of 4

- (1). Boric acid transfer Pump 1A-SN.
- (2). Boric acid transfer Pump 1B-SN.
- (3). Service Water Booster Pump 1B-SB.
- (4). AH-7 1A-SA.
- (5). AH-7 1B-SB.

WAREHOUSE MAINTENANCE LOG

EXHIBIT 1
AP-XIII-07

SCHEDULE MAINTENANCE

MAINTENANCE PERFORMED

EQUIPMENT / TAG NO						INSPECT	MEGGER	ROTATE SHAFTS	NITROGEN PURGE	Hail Probe	INSPECT	MEGGER	ROTATE SHAFT	NITROGEN PURGE	Hail Probe	MEGGER TOX NO DUE DATE	TOOL NO & CAL DUE DATE	YEAR	
ITEM NO	QTY	FOR IDENTIFICATION	LOCATION	MODEL	SERIAL NO														
1	1	435202	12-A-6	RAWCO	8353	✓	✓ 1 2 3 4	✓		✓		✓ 1 2 3 4	✓						JAN
MAINTENANCE REQUIRED																			FEB
								✓					✓						MAR
RECOMMENDED INSTR REQD						RECEIVED DATE													APR
MEGGER		OTHER		6-16-80			✓ 1 2 3 4	✓				✓ 1 2 3 4	✓						MAY
RATED HP Below																			JUN
100 HP								✓					✓						JUL
10 HP								✓					✓						AUG
600 HP								✓					✓						SEP
5 HP								✓					✓						OCT
2-1/2, 3, 4, 1/2, 1/4 HP								✓					✓						NOV
LUBRICATION INFORMATION:																			DEC
NOTE: INITIAL & DATE EACH ITEM UPON COMPLETION OF MAINTENANCE																			
REPAIRED BY: <u>Blaine Johnson</u>																			
APPROVED BY: <u>Emile Johnson</u>																			

5

105

WAREHOUSE MAINTENANCE LOG

SCHEDULE MAINTENANCE

MAINTENANCE PERFORMED

GENERAL INFO				MONTHS											
ITEM NO.	LOCATION	MODEL	SERIAL NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
935-202	12-A-6	Krauco	8353	✓											
MAINTENANCE REQUIRED															
✓	MEGGER	✓	INSPECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	ROTATE MEGGERS	✓	INSPECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	ROTATE MEGGERS	✓	INSPECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	ROTATE MEGGERS	✓	INSPECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ADDITIONAL INFORMATION															
1. 100 hp															
2. 10 hp															
3. 5 hp															
4. 5 hp															
5. 5 hp															
6. 5 hp															
7. 5 hp															
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100. 5 hp															

DATE INITIAL & DATE EACH ITEM UPON COMPLETION OF MAINTENANCE

PERFORMED BY *Chuck Myers*

APPROVED BY *Gene Patton*

FIELD MAINTENANCE

SCHEDULED

PERFORMED

Table 1
M-106

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
82												
INSPECT	1			4			7			10		
MEGGER		2			5			8			11	
ROTATE SHAFTS	1	2	3	4	5	6	7	8	9	10	11	12
NITROGEN PURGE												
LUBE						6						12
INSPECT												
INSTR. DATE												
ROTATE SHAFTS	1-19											
NITROGEN PURGE												
LUBE												

ASSET TAG / NO: AH-7
BUILDING BELEV: A-SA
MODEL: RAB
SERIAL NO: 61F8827
MANUFACTURER: BAIRDSON
PART NO: 155105
REV: 236
TECH: 14A3-TE

MAINTENANCE REQUIRED

MEGGER	✓	ROTATE SHAFTS	✓	LUBE	✓
INSPECT	✓	NITROGEN PURGE			
REPAIR REQ'D		STORAGE LEVEL	B		
OTHER		RATED HP	0		
TURNOVER NO					

OPERATION INFORMATION:
TEX. PREM. RD.

DATE: []

COMPLETION OF MAINTENANCE: []

DATE: []

PREPARED BY: [Signature]

APPROVED BY: [Signature]

FIELD MAINTENANCE

EXHIBIT 1
MP-106

PERFORMED

SCHEDULED

EQUIPMENT TAG / NO	BUILDING	MODEL	SERIAL NO	INSPECT	MEGGER	ROTATE SHAFTS	NITROGEN PURGE	LUBE	INSPECT	THICK NUT DATE	HOIATE SHAFTS	NITROGEN PURGE	LUBE	YEAR
7007	AH-7	B-5B												82
				1		1								
					2	2								
						3								
				4		4								
					5	5								
						6		4						
				7		7								
					8	8								
						9								
				10		10								
					11	11								
						12		12						

EQUIPMENT TAG / NO: AH-7 B-5B
 BUILDING: B-5B
 MODEL: BAHNSON
 SERIAL NO: 67821
 HAE TE

MAINTENANCE REQUIRED:

ROTATE SHAFTS	<input checked="" type="checkbox"/>
NITROGEN PURGE	<input checked="" type="checkbox"/>
LUBE	<input checked="" type="checkbox"/>

STORAGE LEVEL: B
 RATED HP: 0
 TURN OVER NO:

LOCATION INFORMATION:
 TEX PREM RB

DATE INITIAL & DATE EACH ITEM UPON COMPLETION OF MAINTENANCE:
 FOR HEATED SPACE HEATERS: DATE:
 PREPARED BY: [Signature]
 CHECKED BY: [Signature]

FIELD MAINTENANCE

SCHEDULED PUMP BOOSTER WATER SERVICE FIELD

PERFORMED

EQUIPMENT TAG / NO	PUMP BUILDING	MODEL	SERIAL NO	INSPECT	MEGGER	ROTATE SHAFTS	NITROGEN PURGE	INSPECT	OIL DATE MECHANICAL	ROTATE SHAFTS	NITROGEN PURGE	YEAR
												82
1155042	RAB	GOULD	N3328 724-2	I		I		I-19 I-27		I-14 I-14		JAN
						2						FEB
						3						MAR
						4						APR
						5						MAY
						6						JUNE
						7						JULY
						8						AUG
						9						SEPT
						10						OCT
						11						NOV
						12						DEC

EQUIPMENT TAG / NO: B-5B
 PUMP BUILDING: RAB
 MODEL: GOULD
 SERIAL NO: N3328
 724-2

MAINTENANCE REQUIRED
 ROTATE SHAFTS:
 NITROGEN PURGE:
 CALIBRATED INSTR. REQ'D:
 STORAGE LEVEL: C
 RATED HP:
 TURNOVER NO:

OIL NOT HERE YET
 inspect for damage

OPERATOR INFORMATION:
 DATE: INITIAL & DATE EACH ITEM UPON COMPLETION OF MAINTENANCE
 FIELD BY: *[Signature]*
 APPROVED BY: *[Signature]*

DEFICIENCY AND DISPOSITION REPORT

①

Item Activity Name or Description Crane Maintenance	Shop Order N/A	Code Class Seismic	Quantity 3	Unit 1	Quality Assurance Num (Purchase Order & Item No.) QA-435202,203
Serial, Heat or Other Identification No. (Specify) N/A	Supplier or Manufacturer N/A	Type of Procurement <input type="checkbox"/> CP&L PO <input type="checkbox"/> Transfer <input checked="" type="checkbox"/> A-E PO N/A <input type="checkbox"/> NSSS PO			
Violation (Specification, Drawing, Procedure or Other) PGD-001, Rev. 22; PGD-002, Rev. 15	NCR No. N/A	Reporting Inspector <i>D. J. Holler</i> D. J. Holler			

Deficiency Details:

A QA surveillance of material maintenance revealed numerous nonconformances applicable to the 150 ton and 12 ton FHB Cranes (PO 435202) and the 50 ton Equipment Removal Crane (PO 435203), all of which are stored in yard 12. The maintenance logs for these items were reviewed, and a visual inspection of the actual items was performed. A maintenance crew electrician was present to perform meggering of the motors.

For deficiency details, see continuation pages. These three (3) cranes have been placed on QA Hold pending disposition of this DDR.

DDR EVALUATION		
<input checked="" type="checkbox"/>	Construction Phase	
<input type="checkbox"/>	Engineering Phase	
<input type="checkbox"/>	QA Program Violation	
<input type="checkbox"/>	Specification Deviation	
<input checked="" type="checkbox"/>	Procedural Deviation	
<input type="checkbox"/>	Unacceptable Workmanship	
<input type="checkbox"/>	Damage	
<input type="checkbox"/>	Other	
<input type="checkbox"/>	Not Reportable *	
	Site QA Engr. HPES	
	QA/QC	
Evaluated by _____		
Date _____		

*Under evaluation by NPCD.

David Willett
QA/QC Specialist

2/12/82

13 Hold Tags Applied

Final Disposition: Verified Hold/Reject tags removed

Remarks:

QA/QC Inspector _____ Date _____
Accepted By: _____
QA/QC Specialist _____ Date _____

- Distribution:
- Orig: Director - QA/QC - SHNP
 - cc: Site Mgr./Sr. Res. Engr.
 - Initiating QA/QC Specialist
 - Accounting
 - Mgr. - E&C QA/QC
 - Mgr. - HPES
 - A-E Site QA Representative
 - NSSS Site Representative
 - ANI X E. Willett

ANI Concurrence (ASME Code Section III Items Only):

Authorized Nuclear Inspector _____ Date _____

Report Closed:

Director QA/QC - SHNP _____ Date _____

60
SH
#

QA/QC REPORT CONTINUATION SHEET

Report No. DDP-815

Page 2 of 3

1. The 100 horse power motor on the trolley frame of the 150 ton crane has not been meggered since receipt. This was evidenced by the fact that when the electrician went to megger the motor in the presence of the undersigned inspector, no megger lead wire could be found. The electrician stated that the motor has never been meggered. The maintenance log for this motor has been signed off to indicate the meggering has been performed at scheduled intervals since receipt on 6/16/80.
2. Engineering instructions and maintenance logs do not exist for the 12 ton Auxiliary Crane.
3. The engineering instructions for the 150 and 50 ton cranes are not adequately reflected on the maintenance logs as required. Therefore, documented evidence that the maintenance required by the engineering instructions has been accomplished, is not available. The following are specific examples:
 - A. The 1981 engineering instructions require the 150 and 50 ton cranes to be inspected both annually (for lubrication purposes) and on a 3 month basis (for general purposes). However, this maintenance (inspection) was scheduled only once on the maintenance log of the 150 ton crane, while not being scheduled at all on the log of the 50 ton crane.
 - B. The 1980 and 1981 engineering instructions require the electrical cabinets of the aforementioned cranes to be inspected for deterioration at 6 month intervals and recovered with poly when necessary. However, these inspections were not scheduled on the maintenance logs for either crane during 1980 and 1981.

Note: A visual inspection of a number of electrical enclosures covered with poly revealed trapped water within the poly covering the items.
4. Visual inspection of the Hoist Brakes on the 150 and 50 ton cranes revealed that the brakes were not covered with poly and dessicant placed within. The 1980 maintenance logs for each crane require that this action be performed and the logs have been signed off to indicate that it was.
5. Visual inspection of all three subject cranes revealed numerous instances where bundles of internal wiring are either lying uncovered and exposed to the elements, or moisture is entrapped within deteriorating clear poly applied by the vendor.
6. There are no signatures on the 1982 maintenance log of the 50 ton crane to indicate that the Hoist and Hoist Brake were rotated in January 1982 as required by the instructions.

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7. The on-site maintenance/storage requirements for subject cranes differ from those recommended by the vendor without any record of HPES concurrence as required. This is evidenced by the fact that Kranco long-term storage procedure SP-029 recommends that all items of a smaller nature (i.e. smaller than girder assemblies) should be stored indoors. Since receipt, all sub-assemblies of a smaller nature and mechanical items (i.e. motors) have been stored outdoors.

Q.A. Hold
Program

5.3.1.1 QA Accepted items will be stored in designated storage and laydown areas.

Items on QA HOLD shall be segregated, when practical, to await disposal or correction. When not practical to segregate QA HOLD items, they shall remain tagged and may remain in their storage or laydown area to await disposal or correction.

Rejected items will be identified and controlled in accordance with approved procedures waiting disposition.

5.3.1.2 Identification tags or marks shall be retained on each article, or when impractical, in records traceable to the article.

5.3.1.3 Handling, storage and preservation procedures shall be applied.



5.3.1.4 Stock items shall be monitored to assure that perishable items are removed or identified and controlled to assure proper disposition at the end of their specified shelf-life.

5.3.1.5 Measures shall be established to authorize and control the release of material and equipment for use.

DEFICIENCY AND DISPOSITION REPORT

Activity Name or Description Insp. of Safety Related Equipment	Shop Order N/A	Code Class 3	Quantity 5	Unit	Quality Assurance Num (Purchase Order & It No.) QA- N/A
Serial, Heat or Other Identification No. (Specify) See Below	Supplier or Manufacturer N/A		Type of Procurement <input type="checkbox"/> CP&L PO <input type="checkbox"/> Transfer <input type="checkbox"/> A-E PO <input checked="" type="checkbox"/> NSSS PO		
Violation (Specification, Drawing, Procedure or Other) AP-XIII-07 (PGD-002); WP-106, Para. 3.9	NCR No. N/A		Reporting Inspector P. McCurdy		

Deficiency Details:

During surveillance of maintenance of safety related equipment on 1/19/82, it was noted that the polyethylene cover was not removed to facilitate inspection for damage as required by PGD-002. Exhibit 1 to WP-106 was signed off indicating that this inspection was performed. See attached speed letters informing NPCD of similar discrepancies. The attached equipment is affected.

DDR EVALUATION

- Construction Phase
- Engineering Phase
- QA Program Violation
- Specification Deviation
- Procedural Deviation
- Unacceptable Workmanship
- Damage
- Other
- Not Reportable*

Site QA Engr. HP
QA/QC

Evaluated by _____

Date _____

*Under evaluation by NPCD.

ASME
SECTION III

[Signature]
QA/QC Specialist

1/22/82

Final Disposition:

Verified

Hold/Reject tags removed

Remarks:

QA/QC Inspector _____ Date _____
Accepted By:

QA/QC Specialist _____ Date _____

Distribution:

- Orig: Director - QA/QC - SENP
- cc: Site Mgr./Sr. Res. Engr.
- Initiating QA/QC Specialist
- Accounting
- Mgr. - E&C QA/QC
- Mgr. - HPES
- A-E Site QA Representative
- NSSS Site Representative
- ASME

ANI Concurrence (ASME Code Section III Items Only):

Authorized Nuclear Inspector _____ Date _____

Report Closed:

Director QA/QC - SENP _____ Date _____

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[Signature]

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1. Boric Acid Transfer Pump 1A-SN
2. Boric Acid Transfer Pump 1B-SN
3. Service Water Booster Pump 1B-SB
4. AH-7 1A-SA
5. AH-7 1B-SB

DETAILS OF INVESTIGATION

CAROLINA POWER AND LIGHT

SHEARON HARRIS NUCLEAR PLANT

DECEMBER 14, 1981 - JANUARY 22, 1982

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A. INDIVIDUALS CONTACTED

The following individuals were contacted during the course of the investigation.

Carolina Power and Light (CP&L)

G. A. DeBarres, QA Weld Inspector
 K. A. Douglas, QA Weld Monitor
 R. L. Faulkner, QA Weld Control and Surveillance
 S. M. Freeman, QA Weld Inspector
 A. B. Giles, QA Technician
 J. C. McDonnell, QA Weld Inspector
 A. Lucas, Senior Resident Engineer
 E. W. Meccer, QA Weld Inspector
 S. W. Montastle, QA Weld Inspector
 R. M. Parsons, Site Manager
 W. H. Pere, QA Weld Inspector
 K. B. Stanley, QA Weld Inspector
 R. B. Strickland, Mechanical Inspector
 G. G. Tingen, QA Weld Inspector
 T. Wait, QA Welding Supervisor

Daniels Construction Company

Crew P-21: Reactor Auxiliary Building (RAB)

R. V. McLeod, General Foreman
 W. W. Burton, Pipe-Fitter Helper
 R. J. Carr, Welding Foreman
 J. F. Goodsell, Welder
 B. W. Nguyen, Welder
 K. M. Norton, Welder
 J. A. Owens, Welder
 G. S. Peck, Pipefitter
 R. D. Symank, Welder
 M. D. Warlick, Welder

Crew P-35 (RAB)

W. T. Bohan, Foreman
 D. L. Cauble, Welder
 R. W. George, Pipe-Fitter
 W. J. Jenkins, Welder
 T. R. Merideth, Welder
 M. D. Tatham, Welder
 J. C. Woznick, Welder

Crew P-17 (RAB)

D. E. Bradford, Pipe-Fitter
C. A. Brigman, Foreman
R. L. Grant, Pipe-Fitter
T. M. Lazafame, Pipe-Fitter
W. H. Martin, Welder
J. E. Newsome, Welder
J. B. Starnes, Pipe-Fitter Helper
L. L. Whitehead, Pipe-Fitter
S. J. Whitlock, Fitter

Crew P-14 (Waste Process)

R. A. Gardner, Foreman
W. C. Lynch, Welder
T. Smith, Welder
W. B. Surber, Welder

Crew P-20 (Waste Process)

J. A. Brincheck, Welding Supervisor
K. T. Davis, Pipe-Fitter Helper
J. D. Foster, Pipe-Fitter
D. P. Freeman, Welder
C. F. Green, Jr., Welder
J. W. Kilgore, Pipe-Fitter Helper
J. F. Lynch, Pipe-Fitter
D. C. Martin, Welder
D. M. Shargots, Welder
R. R. Stone, Pipe-Fitter
N. C. Sulton, Welder
G. G. Wilbon, Welder

Daniels Technical Services, Ltd.

D. A. Sands, QA Welding Inspector
B. L. Holcombe, QA Welding Engineer

Nuclear Regulatory Commission (NRC)

G. F. Maxwell, Resident Inspector

ALLEGATION

Occasionally, a welding inspector, Individual A [redacted] did not visually inspect welds on seismic hangers and piping. However, he signed documentation showing that he had.

C. BACKGROUND

The Resident Inspector at Shearon Harris nuclear site expressed concerns about certain workers approaching him and complaining about a welding inspector, Individual A [redacted]. Several workers stated they were hearing other workers saying that Individual A was not looking at some welds he was signing off as acceptable. One individual stated to the Resident Inspector that if a weld was located in a difficult to access location, Individual A would not acquire the appropriate scaffolding to allow him to have access to the weld to be inspected. The Resident Inspector was further informed that he could find an unacceptable weld on seismic category 1 pipe hanger numbered [redacted]. The Resident Inspector looked at the welds on that hanger and found no rejectable welds. However, on an adjacent hanger, No. [redacted] the Resident Inspector found what was, in his opinion, a rejectable weld. It was later determined by the resident inspector that this weld had been inspected by Individual A. Three additional hangers were looked at by the Resident Inspector and no rejectable welds were noted.

D. INTERVIEWS OF WELDING INSPECTORS

Eight weld inspectors including a supervisor, as well as four other personnel involved in the QA weld inspection program were interviewed by the Investigator. One individual stated he had heard rumors that Individual A "inspected from the floor". Two individuals stated they heard rumors that Individual A sometimes shined his flashlight on hangers from the floor but did not go up and visually check the welds. Five individuals stated they were aware that Individual A had a very bad case of arthritis during the summer months of 1981 and were surprised when they saw him up on the scaffolding. Two welding inspectors, Individuals B and C, stated they inspected welds before they (the inspectors) were certified. Individuals B and C provided the Investigator with signed statements which contained the following information in essence:

Individual B (Montcastle) started work as a welding inspector trainee beginning sometime in September 1980. Initially, he was under the direct supervision and received on-the-job-training from Individual A. Individual A showed him what to look for regarding acceptability and when to reject a weld. After about 2 months, Individual B began inspecting

welds by himself, particularly in areas which were relatively inaccessible and high up. Individual A remained on the floor signing off the weld inspection documentation and provided Individual B with a sticker showing the weld had been inspected. Individual B placed the stickers on the hangers on which he had inspected welds. Individual B estimated that he had inspected welds by himself on approximately 50-75 hangers, most of which were on the 90ft. and 236ft. elevations in the Reactor Auxiliary Building. Although he inspected the welds prior to being certified in January 1980, Individual B had no misgivings about those welds he accepted. In fact, he believes he was on the conservative side and inspected all welds in accordance with AWS D1.1-75 Standards.

Individual C (Stanley) began his on-the-job-training with Individual A in October 1981 for pipe hanger welding inspection. Individual C estimates that he spent 3 weeks, 40 hours per week with Individual A and, although he could not recall how many hangers they inspected, he estimates he alone inspected about 75% of the welds. That is, those welds which were difficult to get to because of the need to climb scaffolds or physically difficult to get to. When he rejected welds the first several times, Individual A climbed the scaffold, looked at the welds and agreed they were rejectable. Thereafter, Individual C rejected and accepted welds without Individual A looking at them. Individual A always signed the weld inspection forms (Weld Data Report (WDR QA 34 and traveler)) as well as the weld inspection sticker. Individual C estimates that he inspected welds on about 100 hangers by himself before he was certified. In all of these situations, Individual A signed the documentation. Like Individual B, Individual C had no reservations about the welds he had accepted. He also inspected the welds according to AWS D1.1-75 standards.

E. INTERVIEWS OF CRAFT PERSONNEL

Forty-two Craft personnel comprised of welding foremen, welders, pipe-fitters, and pipe-fitter helpers were interviewed by the Investigator. Twenty-seven individuals had no knowledge of Individual A and could provide no pertinent information. Three individuals stated they heard rumors that Individual A would inspect from the floor and shine his flashlight on the welds. Five individuals stated they observed Individual A performing inspections on welds which were high up and difficult to get to. One welder, Individual D (Sutton) stated that Individual A accepted welds without looking at them. A signed statement was provided to the Investigator by Individual D which contained the following information in essence:

Sometime in the late spring or early summer, Individual D was assigned to assist Individual A in locating and providing access for inspection of welds on piping. This transpired on

a Saturday with no one else in the general area. The pipes were located in the waste process area, elevation 236. Individual A remained on the floor and Individual D climbed the scaffolds and ladders, placing stickers on pipes signifying the welds had been inspected. Individual A signed off the paperwork. Individual D estimates that this activity took place on approximately 100 welds, all non-safety Category 6 and 7. Individual D expressed concerns to co-workers and opined that this was the source of all the subsequent talk going around the plant about Individual A not inspecting the welds. Individual D thought Individuals E (Norton) and F (Kilgore) may have knowledge about similar occurrences.

Individual E (Norton) was interviewed and stated he had no first hand knowledge about improper welding inspection. Individual E only acknowledged hearing rumors that Individual A had welders put stickers on pipes for him. Individual F (Kilgore) was interviewed by the Investigator and he provided a signed statement containing the following information in essence:

Individual F, a pipefitter helper, estimates he assisted Individual A in locating welds approximately 500 times. Most of the welds were easily accessible and were looked at by Individual A. On one occasion, however, in September 1981, Individual A glanced at two category 7 (non-safety related) welds which were located approximately 20 ft. above him. These were off the "MY column" and "column 2" of the East-West Hallway of the waste process area. Individual A signed the inspection sheet and handed the carbon copy to Individual F for the craft records. He also gave Individual F two filled out stickers instructing him to place them by the welds. However, Individual F did not do so because there was no scaffolding or ladder available, so he took the stickers home. Individual F was later requested by the Resident Inspector to provide him with the stickers. Only one was still available and this was given to the Resident Inspector by Individual F. This same sticker was later provided to the Investigator. The sticker bears the initials of Individual A.

Based on the information provided by Individual D regarding Individual A's not inspecting welds on a Saturday when no others were in the indicated area, a foreman, Individual G (McCleod) was asked to provide the names of craft personnel who assisted Individual A on Saturdays. Individual G provided those names to the Investigator. They were: Individuals H (Jenkins), I (Robinson), J (Cauble), K (Giles), L (Bradford) and M (George). These personnel were interviewed. Individuals H, I, J and M stated they observed Individual A inspect welds from scaffolds and ladders on Saturdays

and he always appeared to be inspecting carefully. Individual K stated he observed Individual A inspect the welds although he seemed reluctant to go high. Individual L stated he assisted Individual A with approximately 100 weld inspections. On one occasion, Individual A shined his flashlight from a distance and accepted one weld. This, according to Individual L, was on code 6 and 7 non-safety related piping, located high off the floor.

F. INTERVIEW OF INDIVIDUAL A (WELDING INSPECTOR)

Individual A was interviewed at Shearon Harris on December 17, 1981 and he provided a signed statement containing the following information in substance:

Regarding signing off welds that he did not actually look at, but which were inspected by trainees, Individual A explained that he was always within close proximity to them. When questioned by the Investigator as to whether or not he remained at floor level while the trainee inspected welds high on the scaffolds, Individual A declined to state where his exact physical location was except that he was in the "immediate vicinity". Individual A explained that sometime around April 1981, EBASCO began sending revisions requiring reinspection of some pipe hangers. Subsequently, for about a 3 month period, Individual A went out and looked at the respective hangers. No welds had to be inspected but he did have to verify the hanger was physically present. Therefore, Individual A would often shine his flashlight on the hanger while standing on the floor to ensure the hanger was present and in its proper location. He would then sign off the revised drawing and give to whoever was assisting him, a sticker indicating the date the hanger was "inspected" to the latest revision. The assistant would then place the sticker somewhere on the hanger. Individual A believes this may have been misconstrued by others in the vicinity that he was signing off welds without actually looking at them. In fact, none of the welds on the hanger required any inspection. Individual A estimates that he inspected approximately 100 hangers in this manner. Individual A denied having not inspected welds on pipes or hangers, but signing them off as acceptable.

G. WELD INSPECTIONS BY NRC

Based on the statements, made by several individuals, that Individual A signed off pipe welds without inspecting them, the Region II Engineering Inspection Branch was requested to conduct an inspection of randomly sampled welds on hangers and pipes. It was further requested that they draw samples from:

Areas which were relatively difficult to access;

Welds which were inspected on Saturdays; and

Welds which were inspected during the April-September 1981 time frame.

The results of the reinspection of welds conducted by NRC inspectors are documented in NRC Inspection Report Nos. 50-400/82-01 and 50-400/82-06. A summary of that inspection is included herewith as Enclosure 1. Two violations were identified by the inspectors and they are discussed in the referenced inspection report.

H. REVIEW OF LICENSEE PROCEDURES

The problem of uncertified individuals performing inspections and the inspection reports for those inspections being signed off by a certified inspector was discussed with the CP&L Site Manager and Senior Resident Engineer. They stated that such actions were permissible in accordance with licensee procedure CQA-1, "Personnel Training and Qualification".

A review of that procedure disclosed that Paragraph 7.1 contains the following:

"Emphasis will be on firsthand experience gained through actual performance of processes, tests examinations, and inspections. As the inspector in training develops proficiency, he may be allowed to perform certain functions with minimal supervision; however, he will not be permitted to "sign-off" hold points in verification of quality requirements for work activities."

In response to the Investigator's comments regarding the inspection records being signed by an inspector who had not actually inspected the weld, the licensee's site management representatives stated that the certified inspector was accepting responsibility for the welds, therefore the inspector would only permit the trainees to accomplish the inspection when he believed they were qualified.

The licensee's procedure and implementation of the procedure is inconsistent with the requirements of ANSI N45.2.6-1973 which the licensee committed to follow in that the trainees had not been certified to perform the inspections in question; that is, no "certificate of qualification" meeting the requirements of Section 2.2.4 of the Standard had been completed for the individuals.

The licensee's procedure is also inconsistent with Criterion 17 of Appendix B to 10 CFR 50, which requires that inspection records identify the inspector who performed the inspection. An inspector cannot "accept responsibility" for an inspection that he did not personally perform.

I. FINDINGS

The allegation was substantiated in that the welding inspector signed inspection records indicating that he had inspected welds and found them acceptable when, in fact, he had not personally inspected the welds. This action results in two violations of NRC requirements. These are:

1. The inspection records did not identify the individuals (B and C) who had actually performed the inspections as required by 10 CFR 50, Appendix B, Criterion XVII and Section 1.8.5.17 of the PSAR; and
2. The inspections were performed by individuals (B and C) who were not certified to perform the inspections in accordance with ANSI N45.2.6-1973 as required by 10 CFR 50, Appendix B, Criterion II and Section 1.4.9(1.58) of the PSAR.

These violations appear to be the direct result of inadequacies in licensee procedure CQA-1 (Rev. 4), "Personnel Training and Qualification" or the licensee's interpretation of that procedure as discussed in Paragraph H above.