EXHIBIT 7

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of	)	
	)	
CAROLINA POWER AND LIGHT	)	Docket No. 50-400-LA
COMPANY	)	
(Shearon Harris Nuclear Power Plant)	)	ASLBP No. 99-762-02-LA

AFFIDAVIT OF WILLIAM T. GILBERT

CITY OF NEW HILL	)	
	)	ss:
STATE OF NORTH CAROLINA	)	

I, William T. Gilbert, being sworn, do on oath depose and say:

1. I am a resident of the State of North Carolina. I am employed by Carolina Power & Light Company ("CP&L") and work at CP&L's Harris Nuclear Power Plant in the Operations and Environmental Support Department. My business address is 5413 Shearon Harris Road, New Hill, North Carolina, 27562.

2. I have been employed at the Harris Nuclear Plant for the past 20 years. I started working at the Harris Nuclear Plant in Corporate Quality Assurance in 1979. My job responsibilities in this organization from 1979 to 1990 ranged from performing mechanical inspections/tests of installed components; writing Quality Assurance ("QA") procedures governing, inspection, and testing of installed components;

performing quality surveillances of mechanical work activities; and performing plant modification reviews ensuring QA Program requirements were being satisfied. From 1991 to 1998, I worked as an auditor in the Nuclear Assessment Section. My responsibility included oversight activities and participation in or leading assessments/audits for the areas of training and qualification, emergency preparedness, and contractors working at CP&L Nuclear Power Plants under their own approved 10CFR50 Appendix B Program. Since 1998, I have been working in the Procurement, Dedication & Vendor/Equipment Services Unit as a Lead Auditor. My responsibilities include conducting vendor audits and maintaining qualifications for a number of vendors on CP&L's Approved Suppliers List.

3. The purpose of this affidavit is first to describe CP&L's QA Program and the implementation of the American Society of Mechanical Engineers ("ASME") N-Stamp program during Harris Plant construction, particularly as it applied to the installation of ASME Section III, Class 3 stainless steel piping. I also confirm from personal knowledge the acceptability of certain field welds on the Spent Fuel Pool Cooling and Cleanup System ("SFPCCS") piping constructed for spent fuel pools C and D.

4. The basis for the overall QA Program used by CP&L for the design and construction of the Harris Plant is described in the Harris Preliminary Safety Analysis Report ("PSAR"). PSAR Section 1.8 states that "The Carolina Power & Light Company Quality Assurance Program for the engineering and construction of the Shearon Harris Nuclear Power Plant, which includes the quality assurance programs for both Ebasco

and Westinghouse by reference, is structured with regard to safety-related equipment in accordance with the eighteen criteria of Appendix B to 10CFR50. In addition, the subject Program is structured in accordance with ANSI N45.2 and thereby AEC Regulatory Guide 1.28." The PSAR further states that the "Shearon Harris Nuclear Power Plant Quality Assurance Plan" was replaced by the "CP&L Corporate Quality Assurance Program" on April 1, 1974, and provides a cross reference on how the subject plan met the criteria of 10CFR50 Appendix B.

5. The process and procedure measures for assuring the quality of the installation of ASME Section III, Class 3 piping, such as the SFPCCS stainless steel piping, are summarized in the Affidavit of David L. Shockley (Exhibit 6). I have read and agree with the full description of the QA program and the QA inspector's responsibilities as described by my colleague David Shockley.

Hydrotesting

6. Construction procedure WP-115, "Pressure Testing of Pressure Piping (Nuclear Safety Related)" (Attachment A to this affidavit), governed the hydrostatic testing ("hydrotest") of the embedded SFPCCS piping connected to Harris spent fuel pools C and D. The hydrotest was generally the final milestone for completion of a piping segment. Prior to hydrotest, Quality Assurance personnel independently verified all required tests, inspections and documentation pertaining to the construction of the piping being hydrotested were completed properly.

7. As the QA inspector during a hydrotest, I had the following responsibilities:

- Identify piping spools and welds to be included within the hydrotest boundary.

- Verify that the Weld Data Reports ("WDRs") were properly completed, required QA and Authorized Nuclear Inspector ("ANI") inspections were performed at hold points, non-destructive examinations ("NDE") were performed satisfactorily, and document such verification with initials and signature on the hydrotest record.

- Verify that the hydrotest was performed pursuant to procedure, the proper pressure was applied, instruments were calibrated, and the pressure held for the required length of the test, and document such verification with initials and signature on the hydrotest record.

- After witnessing the hydrotest, carefully walk down the entire piping segment undergoing the hydrotest while at pressure and inspect each vendor weld and field weld visually for the full circumference of the weld, and document such verification (and note any indications) with initials and signature on the hydrotest record.

8. Attached to this affidavit are hydrotest reports for segments of the SFPCCS embedded piping that included (a) one of the field welds (designated 2-SF-149-FW-408) (Attachment B), and (b) three of the field welds (designated 2-SF-144-FW-515, -516,

and -517) (Attachment C). (The welds are listed on the second page; on Attachment B, the first two welds in the list are the field welds (where only FW-408 is embedded) and the remaining four welds are vendor welds and, on Attachment C, the first three welds in the list are the field welds and the remaining twelve welds are vendor welds. My initials ("TG" for Tommy Gilbert) on the first page and confirmations by "yes" on the second page of Attachments B and C indicate that I identified the piping spools and welds included within the hydrotest boundary and verified the completeness of the QA documentation, including WDRs. On the second page of Attachments B and C (under the list of welds), my initials ("TG") and signature indicate that I verified the proper conduct of the hydrotest, walked down and visually inspected the piping and each weld, annotated the isometric drawing to indicate the components and welds subjected to the hydrotest, and verified the recalibration of the test pressure gauge. Thus, I can state that I reviewed and verified the information in the WDRs and witnessed the hydrotests for field welds 2-SF-149-FW-408, 2-SF-144-FW-515, -516, and -517.

9. In addition, Attachment D is a hydrotest report for a segment of the SFPCCS embedded piping that included three field welds (designated 2-SF-143-FW-512, -513, and -514). As indicated by my initials ("TG") on the first page of Attachment D and recognition of my handwriting in the first three columns of the table on the second page of Attachment D, I identified the piping spools and welds included within the hydrotest boundary and verified the completeness of the QA documentation, including

the WDRs. My colleague, David Shockley, witnessed the hydrotest as he notes in his affidavit and can be seen by his initials ("DLS"). I can verify that I reviewed and verified the completeness of the WDRs for field welds 2-SF-143-FW-512, -513, and -514 as well.

10. From my review of hydrotest records for which I was personally responsible in some manner, I can state with confidence that I personally reviewed and verified the completeness of seven of the fifteen WDRs for field welds in the SFPCCS embedded piping.

Concrete Placement

11. The SFPCCS piping in question is embedded in concrete. Since embedding a line in concrete represented a point at which piping was no longer accessible for inspections or rework, procedural controls were established to ensure that all required work activities had been completed and that documentation was in order prior to authorizing concrete placement. The process and procedure measures for assuring the proper completion of activities prior to embedding a piping system in concrete are summarized in the Affidavit of David L. Shockley (Exhibit 6).

12. Attachment E to this affidavit is a Concrete Placement Report (commonly referred to as a Concrete Pour Card) for an internal wall of the Fuel Handling Building at 281' elevation. A final check of quality documentation was made before the concrete was poured. QA Program requirements, as documented in the "pre-placement checkout"

section of the pour card, were designed to ensure the pipe welding and installation were completed as required by the QA program and the installation was recorded on QA records. I personally performed the QA function for two steps of the "pre-placement checkout" for this concrete pour card. This is indicated by my signature on the first page for step 5 (mechanical verification of the piping to be embedded) as the QA signoff and step 9 (verification of the ASME Code and seismic welding) as the Quality Control ("QC") signoff.

13. As part of the QA review prior to a concrete pour, the QA inspector confirmed that all required QA documentation for piping that would be embedded in concrete was in the QA package and was complete – including applicable drawings, WDRs for the field welds, RWDRs (as required) ,NDE records and hydrotest reports. I took this responsibility very seriously because once the concrete was poured there was no way to recreate missing QA documentation. I remember very clearly during construction of the Harris Plant personally holding up a concrete pour, with trucks and men impatiently waiting, while we searched for documents that were not in the QA package. (We found the documents and the concrete was poured.) I understand that all concrete pour cards have been retrieved for spent fuel pools C and D and those sections of the Fuel Handling Building that includes the embedded SFPCCS piping. As my own signature on Attachment D indicates, and the signature of the QA inspectors on the other pour cards also indicate, QA documentation, including WDRs, was reviewed and verified for completeness prior to pouring concrete.

14. I have spent twenty years in quality related activities at the Harris Plant and CP&L's other nuclear plants. The Harris Plant had an excellent QA Program during construction. Based on my personal involvement with QA inspections during the construction of spent fuel pools C and D and the SFPCCS piping, I am confident that the WDRs for the field welds embedded in concrete in the SFPCCS piping were reviewed and verified complete prior to the hydrotests and prior to concrete pours. There were too many QA Program checks and double-checks to ensure that required documentation was prepared to conclude otherwise.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on December 30, 1999.

William T. Gilbert

William T. Gilbert

Subscribed and sworn to before me
this 30 day of December 1999.

Darlene S. Yarborough

My Commission expires: 2-6-2000

DARLENE S. YARBOROUGH NOTARY *** PUBLIC HARNETT COUNTY, NC

RECS INPUT SHEET

DOC TYPES: 1, 2, 3, 4, 5, 6, 7, 8, 12, 14, 15, 22, 23, 25, 27, 31, 32, 43

ENCODED: Kall

INPUT

VERIFIED

DIN NO.:

FILE NO.: ϕ611510

DOCUMENT DATE: 790919

UNIT: ϕ

CART. NO.:

FRAME NO.:

Q AND RET CODE: QP

APPROVAL: Q -

PNSC -

SERIAL NO.:

NAME/TITLE: HYDROSTATIC TESTING OF BURIED OR EMBEDDED PRESSURE PIPING NUCLEAR SAFETY RELATED

PROC. NO.: WP-115

REV. NO.: ϕ

RESPONSIBILITY:

VENDOR:

P. O. NO.:

CHG. NO.:

JOB ORDER NO.:

REFERENCE:

CONTENTS:

FORM NO. 1779-A

CONSTRUCTION PROCEDURES MANUAL SHNPP	PROCEDURE NO. WP-115	DATE As Approved
WORK PROCEDURE DESCRIPTION HYDROSTATIC TESTING OF BURIED OR EMBEDDED PRESSURE PIPING (NUCLEAR SAFETY RELATED)	REVISION 0	
	PAGE 1 OF 5	

Q A RECORDS

RECEIVED
MAR 16 1982
SHNPP CONSTR. Q A UNIT
DOCUMENT CONTROL

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

WORK PROCEDURE
WP-115

VOID
DO NOT USE FOR CONSTRUCTION
DATE 2-19-80 BY CF

RECEIVED
SEP 27 1979
SHEARON HARRIS N. P. P.

* REVIEWED AND APPROVED BY EBASCO SERVICES, INC., FOR CONFORMANCE TO THE REQUIREMENTS OF PARAGRAPH CA-3310 OF ARTICLE CA-3300 OF ASME/ACI 359, SECTION III, DIV. 2, WINTER 1975 ADDENDA.

REV.	DESCRIPTION	APPROVALS		DATE
0	Issued for Use.	ORIGINATOR	Donald P. Knepper	8-14
		CONSTRUCTOR	W. D. Goodman	8-17
		E & C Q.A.	G. L. Tayloe	9-13
		CP&L	C. M. Lucas	9-1
		DES. ENG. *	N/A	
		ORIGINATOR		
		CONSTRUCTOR		
		E & C Q.A.		
		CP&L		
		DES. ENG. *		
		ORIGINATOR		
		CONSTRUCTOR		
		E & C Q.A.		
		CP&L		
		DES. ENG. *		

8343 2209

6-1-3

1.0 SCOPE

1.1 This procedure describes the steps to be followed for the hydrostatic testing of nuclear safety related embedded or buried pressure pipe.

1.2 This is an ASME Section III procedure.

2.0 REFERENCES

2.1 ASME Section III, Division I, 1974 Code, Winter 1976 Addenda

2.2 Piping Line List

3.0 GENERAL

3.1 PPCD is responsible for the hydrostatic testing of buried or embedded piping. E & C QA is responsible for witnessing the hydrostatic testing, verification of piping documentation, leakage detection and monitoring hydrostatic testing activities. The mechanical construction inspector will monitor the filling, pressurizing, venting and draining operation.

3.2 The pipe shall be free from debris.

3.3 All joints, including welded joints shall be visible for inspection. Where practical, all surface areas of the piping to be tested shall be visible for inspection.

3.4 The system or subassembly shall be held at the test pressure for a minimum of ten minutes prior to inspection for leaks.

3.5 Any defects found will be corrected and the section with the defect will be retested until a satisfactory test is completed.

3.6 The piping shall be tested at no less than 1.25 times the system design pressure.

3.7 For Code Class 2 and 3 piping, if the test pressure defined above is to be exceeded by more than 6%, the upper limit shall be established by the designer using an analysis which includes all loadings which may exist during the test. For Code Class I piping, the maximum pressure will be provided by the discipline engineer. The hydrostatic test pressure shall not exceed the maximum test pressure of any component in the system.

3.8 Following the application of the hydrostatic test pressure for

a minimum of ten minutes, examination for leakage shall be made of all joints, connections, and of all regions of high stress such as regions around openings and thickness - transition sections. This examination shall be made at a pressure equal to the greater of the design pressure or three-fourths of the test pressure and it shall be witnessed by the ANI. Leakage of temporary gaskets and seals, installed for the purpose of conducting the hydrostatic test and which will be replaced later, may be permitted unless the leakage exceeds the capacity of the hydro pump to maintain system test pressure for the required amount of time. Other leaks, such as from permanent seals, seats, and gasketed joints in components, may be permitted when specifically allowed by the design specifications. Leakage from temporary seals or leakage permitted by the design specifications shall be directed away from the surface of the component to avoid masking leaks from other joints.

3.9 Pressure test gauges used in pressure testing shall be indicating pressure gauges and shall be connected directly to the component. If the indicating gauge is not readily visible to the operator controlling the pressure applied, an additional indicating gauge shall be provided where it will be visible to the operator throughout the duration of the test. The operator shall monitor the indicating gauge throughout the duration of the test.

3.10 Indicating pressure gauges used in testing shall preferably have dials graduated over a range of about double the intended maximum test pressure but in no case shall the range be less than 1 1/2 nor more than four times that pressure.

3.11 All test gauges shall be calibrated against a standard dead weight tester or calibrated master gauge. The test gauge shall be calibrated before and after each test or series of tests. A series of tests is that group of tests, using the same pressure test gauge or gauges, which are conducted within

a period not exceeding two weeks. If the gauge is found out of calibration after the hydro test, the test will be performed again. If the gauge is out of calibration and reading lower than the actual pressure, the problem shall be referred to the Senior Resident Engineer to determine possible damage to the tested component.

3.12 Water temperatures will be a minimum of 50°F. Hydrostatic testing shall be done using either lake water or potable water. However, Westinghouse piping and equipment shall be tested with water meeting the requirements of Westinghouse Process Specification PS292722.

3.13 The hydro test shall be witnessed by the ANI, an Engineering and Construction QA Inspector, and a representative of the Generation Services Startup and Technical Unit, if they so desire. A witness shall sign the Hydro Test Form.

4.0 PROCEDURE

4.1 The boundaries of the system or subassembly to be tested will be defined by the mechanical discipline engineer on the Hydro Test Form prior to testing. An isometric or piping drawing may be marked to indicate the boundaries. In the description of the "Pipe to be Tested" the boundaries should be defined from one significant point, valve, column line, wall, etc., to another.

4.2 Prior to the hydro, the Mechanical QA Specialist will verify that:

1. All required piping documentation is complete.
2. All required weld documentation is complete.

4.3 Prior to the hydro, the mechanical discipline engineer will verify that:

1. All temporary and/or permanent pipe supports are properly installed.
2. All openings in the system, except the fill point and necessary vent points, are tightly plugged.

3. The test equipment is tight and that all low pressure filling lines and other appurtenances that should not be subjected to the test pressures have been disconnected or isolated by valves or other suitable means.
4. The piping system and the water are approximately at the same temperature.
5. The Generation Services Startup Unit has been notified so that they may witness the test.

4.4 The mechanical discipline engineer will verify that the system is filled to the required test point, making sure air pockets are vented. He shall also indicate the design pressure, the required test pressures (pressure to be held for 10 minutes and pressure to be used during inspection), and maximum permissible test pressure (for Code Class 2 and 3, 6% greater than pressure to be held for 10 minutes) on the Hydro Test Form.

4.5 The Engineering and Construction QA Inspector shall check for leaks in accordance with Paragraph 3.8.

4.6 Upon satisfactory completion of the hydro test the mechanical discipline engineer will verify that:

1. The system is drained and vented.
2. All temporary plugs are removed.

5.0 EXHIBITS AND APPENDICES

None

Rev. 0
10/79

Exhibit 13
AI-11-(

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Procedure Deviation Notice

Procedure No: WF-115 Revision No. 0 Deviation No. 1
Procedure Title Hydrostatic Testing of Buried or Embedded Pressure Piping (Nuclear Safety Related)

Affected Paragraphs	Description of Deviation
3.12	Paragraph 3.12 should read: Water temperatures will be a minimum of 50°F. Hydrostatic testing shall be done using either lake water or potable water. However Westinghouse piping and equipment shall be tested with water meeting the requirements of Westinghouse Process Specification PS292722. Service Water pipe may be hydrostatically tested with water at a minimum of 40°F.

DOCUMENT CONTROL
RECEIVED
DEC 20 1979
SHEARON HARRIS N. P. P.

The approval of this Procedure Deviation Notice authorizes deviation from the named procedure to the extent described above. Penned changes may be made to the text of the procedure to reflect the above deviation.

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

Donald P. Hopper — Submitted By
A. M. Lucas — Approved By
12-20-79 — Date

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P. 08

QA-26
2/4/82
Rev. 2

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT
HYDROSTATIC TEST RECORD
(Procedure COC-22) REV 2
WP-111 REV. 3

Unit No. 2&3 System SPENT FUEL Turnover No. 1-7110.004

Drawing No. 2165-G-444 N/A Rev. 7 SUP 3-10-82 N/A Code Class 3

Isometric(s) 2-SF-149- REV. 1 LINE * 3SFP-1765B-2&3 SUP 3-10-82

Test Boundaries FROM ~~FW~~ 2-SF-149-FW-408 TO BUTT NOT INCLUDING INSTRUMENTATION FLANGE; ALL WELDS BETWEEN TO BE TESTED AND INCLUDING

Design Press. 25 psi Maximum Press. (of lowest component) 188 psi

Test Press. 32* psi Minimum Time at Test Press. 10 min.

Hold Press. 25 psi TEST MEDIUM WATER

Prepared By: * SEE FCR-P-254 Verified By:

S. L. B. 3/2/82
Mech. Discipline Engineer Date

Mech. QA/QC Specialist 3/25/82 Date

COMPONENTS

Ident. No.	Mfg./Fabrication Records Accepted	Open DDR's/NCR's	Verified By: (Initials & date)
2-SF-149-2	yes	NO	TA 3-10-82
2-SF-149-3	yes	NO	TA 3-16-82
2-SF-149-4	yes	NO	TA 3-25-82

QA RECORDS
RECEIVED
AUG 04 1983
CP&L CONSTR. Q A UNIT

PRE-TEST CHECK-OFF

1. Openings, except fill & vent points, plugged Sat. Unsat.
2. System filled; high points vented Sat. Unsat.
3. Items not to be tested disconnected/isolated Sat. Unsat.
4. Surfaces to be inspected clear & unobstructed Sat. Unsat.
5. Test medium temp. 56 °F (minimum 50°F) 08206
6. (Thermometer) Pyrometer No. CP&L 4990A Date Calibrated 3-22-82
7. Press. Gauge No's. 4659B Date Calib. 3-26-82 Range 0 to 60
   CP&L N/A Date Calib. N/A Range N/A to N/A

2-7110.M-1
2-7110.M-1

QA-26
2/4/82
Rev. 2

Ident. No.	Weld Data Records Complete	Shown On Isometric	Visual Leakage Inspection Intl's	Date	Remarks
✓ 2SF-149 FW 408	yes	yes	TD	3-26-82	No Leakage
✓ 2SF-149 FW 407	yes	yes	TD	3-26-82	No Leakage
2SF-149-2-SW-1	yes	yes	TD	3-26-82	No Leakage
SW-2-SF-149-2A	yes	yes	TD	3-26-82	No Leakage
~~SW-2-SF-149-2B~~	~~yes~~	~~yes~~			Did not test TD 3-26-82
SW-2-SF-149-3A	yes	yes	TD	3-26-82	No Leakage
SW-2-SF-149-3B	yes	yes	TD	3-26-82	No Leakage

Maximum press. applied 43 psi - Actual time at test press. 11 min.

Post test press. gauge recalibration verified: TD 3-29-82
Initials & Date

Welds signed off on isometric drawing: TD 3-29-82
Initials & Date

Test Inspected By:

Tommy Gilbert 3-29-82
QA/QC INSPECTOR Date

Test Witnessed By:

JB Rhodes AIT 6/3/82
Authorized Nuclear Inspector Date

Reviewed & Accepted:

[signature] 6/4/82
Mech. QA/QC Specialist Date

*Witnessed By:

[signature] 6/4/82
Harris Startup Group Date

*Optional at the discretion of the Harris Startup Group

U3/53 IJ67

QA-26
2/4/82
Rev. 2

Page 1 of 2
Correction Number
22
7.K.
9-8-83
9/8/83
Initial
Date

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT
HYDROSTATIC TEST RECORD
(Procedure CQC-22) R/2 WP 115 R/3 CC 9-8-83

Unit No. 2 & 1 System SPENT FUEL Turnover No. 1-7110.M4

Drawing No. 2166-G-413 SUB 3-30-82 Rev. 6 SUB 7-20-82 Code Class 3

Isometric(s) 2-SF-144 REV. 0 LINE # 3SF12-1763B-2 & 3 AND INCLUDING SUB 3-10-82

Test Boundaries FROM 2-SF-144-FW-515 TO SPENT FUEL LINER RING WELD AND ALL WELDS BETWEEN AND INCLUDING SUB 3-10-82

Design Press. 25 psi Maximum Press. (of lowest component) 188 psi

Test Press. 32* psi Minimum Time at Test Press. 10 min.

Hold Press. 25 psi TEST MEDIUM WATER

*SEE FCR-P-254

Prepared By: S. L. B. 3/3/82
Mech. Discipline Engineer Date

Verified By: George Wainel 3/25/82
Mech. QA/QC Specialist Date

COMPONENTS

Ident. No.	Mfg./Fabrication Records Accepted	Open DDR's/NCR's	Verified By: (Initials & date)
2-SF-144-1	YES	NO	TD 3-10-82
2-SF-144-2	YES	NO	TD 3-10-82
2-SF-144-3	YES	NO	TD 3-10-82

INCORPORATED ON N-5
INITIALS DES DATE 4/3/82

PRE-TEST CHECK-OFF

1. Openings, except fill & vent points, plugged Sat. 4/4/82 Unsat. ____
2. System filled; high points vented Sat. 4/4/82 Unsat. ____
3. Items not to be tested disconnected/isolated Sat. 4/4/82 Unsat. ____
4. Surfaces to be inspected clear & unobstructed Sat. 4/4/82 Unsat. ____
5. Test medium temp. 56 °F (minimum 50°F) DES/MS
6. Thermometer/Pyrometer No. CP&L 4990B Date Calibrated 3-22-82
7. Press. Gauge No's. 4689B Date Calib. 3-26-82 Range 0 to 60
   CP&L N/A Date Calib. N/A Range - to -

2-SF-144 1-7110.M.1

D37539 1032

Ident. No.	Weld Data Records Complete	Shown On Isometric	Visual Leakage Inspection Intl's	Date	Remarks
✓ 2-SF-144-FW-515	yes	yes	TD	3-26-82	
✓ 2 SF-144-FW-516	yes	yes	TD	3-26-82	
✓ 2SF-144-FW-517	yes	yes	TD	3-26-82	ARC STRIKE Found on WELD See DOC #9
SW-2-SF-144-1A	yes	yes	TD	3-26-82	Closed 6-3-82
SW-2-SF-144-1B	yes	yes	TD	3-26-82	
SW-2-SF-144-2A	yes	yes	TD	3-26-82	
SW-2-SF-144-2B	yes	yes	TD	3-26-82	
SW-2-SF-144-2C	yes	yes	TD	3-26-82	
SW-2-SF-144-3A	yes	yes	TD	3-26-82	
SW-2-SF-144-3B	yes	yes	TD	3-26-82	
SW-2-SF-144-3C	yes	yes	TD	3-26-82	
SW-2-SF-144-3D	yes	yes	TD	3-26-82	
SW-2-SF-144-3E	yes	yes	TD	3-26-82	
SW-2-SF-144-3F	yes	yes	TD	3-26-82	
SW-2-SF-144-3G	yes	yes	TD	3-26-82	TD 6-4-82

Maximum press. applied 43 psi - Actual time at test press. 11 min.

Post test press. gauge recalibration verified: TD 3-29-82
Initials & Date

Welds signed off on isometric drawing: TD 3-29-82
Initials & Date

Test Inspected By:

Tommy Gilbert 3-29-82
QA/QC INSPECTOR Date

Test Witnessed By:

J B Rhodes Jr 6/4/82
Authorized Nuclear Inspector Date

Reviewed & Accepted:

Lon G.M. Daniel 6/4/82
Mech. QA/QC Specialist Date

*Witnessed By:

N/A DLS 6/4/82
Harris Startup Group Date

*Optional at the discretion of the Harris Startup Group

QA-26
2/4/82
Rev. 2

Corrected Document
Initial	Date
CC	9-8-83
[illegible]	9/8/83

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT
HYDROSTATIC TEST RECORD
(Procedure CQC-22) R/2

WP 115 R/3 CC 9-8-83

Unit No. 2 System SPENT FUEL Turnover No. 1-7110.003

Drawing No. N/A Rev. N/A Code Class 3

Isometric(s) 2-SF-143 REV. 1

Test Boundaries ALL WELDS ON ISO. BETWEEN BUT EXCLUDING LINER RING WELD TO AND INCLUDING FIELD WELD 2-SF-143-FW-512.

Design Press. 25 psi Maximum Press. (of lowest component) 188 psi

Test Press. 32 psi Minimum Time at Test Press. 10 min.

Hold Press. 25 psi TEST MEDIUM WATER

TEST TEMPERATURE NO MINIMUM

Prepared By: SEE FCR-P-254 Verified By:

[signature] 5/27/82 [signature] for G. McDaniel 6/3/82

Mech. Discipline Engineer Date Mech. QA/QC [illegible] Date

COMPONENTS

Ident. No.	Mfg./Fabrication Records Accepted	Open DDR's/NCR's	Verified By: (Initials & Date)
2-SF-143-1	yes	DDR 897	JD 6-3-82
2-SF-143-2	yes	Partially	JD 6-3-82
2-SF-143-3	yes	Closed	JD 6-3-82

INCORPORATED ON N-5
INITIALS SLS DATE 6/7/82

PRE-TEST CHECK-OFF

1. [illegible] Sat. SB 6/3/82 Unsat. ____
2. [illegible] Sat. SB 6/3/82 Unsat. ____
3. [illegible] not to be tested [illegible] Sat. SB 6/3/82 Unsat. ____
4. [illegible] to be [illegible] Sat. SB 6/3/82 Unsat. ____
5. [illegible] temp. 99 °F [illegible]
6. Thermometer/[illegible] No. 4931B Date Calibrated 5/20/82
7. Press. Gage No's. G-2 Date Calib. 6/3/82 Range 0 to 100
   ____ Date Calib. ____ Range ____ to ____

-7110-M.1
-12-SF-143

Ident. No.	Weld Data Records Complete	Shown On Isometric	Visual Leakage Inspection Insp'l's	Date	Remarks
2-SF-143-FW-512	yes	yes	DCS	6/3/82	
2-SF-143-FW-513	yes	yes	DCS	6/3/82	
2-SF-143-FW-514	yes	yes	DCS	6/3/82	
SW-2-SF-143-1A	yes	yes	DCS	6/3/82	
SW-2-SF-143-1B	yes	yes	DCS	6/3/82	
SW-2-SF-143-1C	yes	yes	DCS	6/3/82	
SW-2-SF-143-2A	yes	yes	DCS	6/3/82	
SW-2-SF-143-2B	yes	yes	DCS	6/3/82	
SW-2-SF-143-3A	yes	yes	DCS	6/3/82	

Maximum press. applied 53 psi - Actual time at test press. 75 min.

Post test press. gauge recalibration verified: DCS 6/4/82
Initials Date

Welds signed off on isometric drawings: DCS 6/3/82
Initials Date

Test Inspected By:

[signature] 6/4/82
QA/QC Inspector Date

Test Witnessed By:

JB Rhodia ANI 6/4/82
Authorized Nuclear Inspector Date

Reviewed & Accepted:

[signature] for G.M. Donald 6/4/82
Mech. Engineering Specialist Date

*Witnessed By:

N/A 6/3/82
[illegible] Group DCS Date

*Optional at the discretion of the [illegible]

PLACEMENT REPORT

SHNPP

FILE

PLACEMENT NUMBER: 1FHIW281018

LOCATION (INCLUDE ELEV. IF IN BLDG.)	SCHEDULED DATE:	
FUEL UNLOADING BLDG EL 281	3-2-83	

TYPE PLACEMENT	ESTIMATED QUANTITY	TEMP LIMIT	SLUMP LIMIT	SEISMIC CLASS I	YES	NO
INT WALL	29 cu yds	50°-90°	4" 8"			✓

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES) WJ 3-24-83

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF.		CURING – UNFORMED SURF.	
BUGGY	☐	CHUTE	☐	INTERNAL	☑	STEEL TROWEL	☐	FORMS ALONE	☑	WATER	☑
BUCKET	☐	TREMIE	☐	FORM	☐	WOOD FLOAT	☑	TARPS	☐	WET BURLAP	☐
CONVEYOR	☐	DROP	☑	______	☐	HAIR BRUSH or	☐	INSULATION	☐	POLYETHYLENE	☐
PUMP	☑	______	☐			BROOM FINISH	☐	FORMS & WATER	☐	CURING COMPOUND:	
TRUCK	☐					RUBBER FLOAT	☑ WJ 3/24/83		☐	KUREZ	☑
NORMAL	☐					______	☐			NUTEC IC	☐
										QUAD CURE	☐
										GALLONS REQUIRED	3/16

SERVICE COND. LIMITED
PROTECTION min
CURE (DAYS) 7

ANTICIPATED WEATHER CONDITIONS: COLD TWS 3/29/83 NORMAL

COMMENT & CLARIFICATION TO PROPOSED METHODS: INT. WALL L-M, 76 E

PRIMARY MASONRY DWG. NO.	RATE OF RISE
CAR-2167G-3222	5'/HR

DES. STRENGTH	DESIGN MIX CODE	NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE
4000 PSI	WJ 3-24-83 W5 6 MB1	BY: Wayne Worthington TITLE: AE DATE: 2-28-83

	PRE-PLACEMENT CHECKOUT		CONSTRUCTOR REF. PROC.	CRAFT SUPT	FIELD ENG	CONST. INSPECTION DATE	INSPECTOR	H	Q.C. SIGNOFF	QUALITY ASSURANCE DATE	Q.A. SIGNOFF
1	CONTACT SURFACES		WP-5	White	M.O.C.	3/24	R Stott			3/4/83	K.
2	FORMS		WP-22	Wld	M.O.C.	3/24	R Stott			3/4/83	K.
3	REINFORCING STEEL		WP-11	[illegible]	[illegible]	3/24	R Stott			3/4/83	K.
4	EMBEDS			[illegible]	M.O.C.	3/24	R Stott			3/4/83	K.
5	MECHANICAL	EMBEDS	WP-102	NE [illegible]	M.O.C.	3/24/83	[illegible]	N/A		3/24/83	T. Billet
		PIPE									
6	ELECTRICAL		WP-201	[illegible]	M.O.C.	3/23/83	M Mitchell				
7	CADWELDS		WP 01	[illegible]	[illegible]	3/24	R Stott	N/A	[illegible] 3-23		
8	BOP WELDING					3/24/83	D Worthington				
9	CODE/SEISMIC WELDING							N/A	T. Billet 3/24/83		
10	CLEAN-UP		WP-5	White		3/24/83	R Stott		3/31/83	3/4/83	K.
11											
12											

CONSTRUCTOR SIGNOFF (AREA SUPT): M Olds TIME: 8:00 DATE: 3-24-83

C.I. SIGNOFF: Ronnie Stott TIME: 10:06 DATE: 3/24/83

DESIGN APPROVAL: Wayne Worthington DATE: 3/24/83

TIME OF START: 10:00 A.M.

DATE PLACED: 03-25-83 (TWS 3/29/83)

YDS. CONCRETE DELIVERED	YDS PLACED IN THIS PLACEMENT	YARDS WASTED	
30	21.5	CONCRETE	8.5
		GROUT	0.0

YARDS GROUT DELIVERED			YARDS PLACED ELSEWHERE	
00	CONCRETE	021.5	CONCRETE	00.0
	GROUT	000.0	GROUT	00.0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Ronnie Stott TITLE: Construction Inspector DATE: 3/25/83

REMARKS (ATTACH RELEVANT REPORTS):

PRE-PLACEMENT — PRECHECKOUT DATA BY PLACING ORGANIZATION — PLACEMENT — QC

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