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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

June 26, 1984

DOCKETED
USNRC

'84 JUN 29 10:38

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

Glenn O. Bright
Dr. James H. Carpenter
James L. Kelley, Chairman

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

In the Matter of

CAROLINA POWER AND LIGHT CO. et al.
(Shearon Harris Nuclear Power Plant,
Unit 1)

Docket 50-400 OL

ASLBP No. 82-468-01
OL

Cover Letter for Documents
Supporting Stokes Affidavit on Eddleman 65
(Defective Concrete)

Dear Administrative Judges:

Enclosed are copies for you and all parties of the selected sample of documents illustrating facts cited in the affidavit of Charles Stokes filed June 14 in this proceeding. By arrangement, Charles Barth of NRC Staff will receive a copy of the entire set of CP&L pour packages reviewed by Stokes. I also possess copies of the other 95% of the pour packages as copied for me by CP&L; if anyone wishes to examine them, please contact me at 919-286-3076. This letter will briefly describe the enclosures and the part(s) of the Stokes affidavit of 11 June 1984 which each relates to.

The first enclosure is from pour ICBXW290001 of 7/23/82, (Stokes affidavit pp 5-7, starting low on page 5). This includes the Ebasco concrete specification Stokes refers to on his page 6 and the related concrete strength reports.

The next is from pour LCBSL216002, Beginning with the Field Inspection Report sheet on "Accidental Burning of Waterproof Membrane" which is the Water stop referred to by Stokes on pp 9 & 10.

DS03

8406290358 840626
PDR ADOCK 05000400
PDR

The third enclosure is also from ICB SL 216002 in the base mat, and it shows the concrete slump in the "SLUMP (in.)" column, fifth from the left, and the slump specification as "Slump required" (4 ± 1 in.) below the ~~table~~ table. The table continues on later pages. These are the out-of-specification slumps in this pour as cited by Stokes on page 9.

The fourth enclosure includes the cover sheet of the ICB SL 216-002 Concrete Placement Report. It documents the hot weather, (1st page, "Anticipated Special Weather Precautions", and reproduces pages indicating repair work not completed (not covered by Stokes) on the waterstop 7-27-78, and also the last page has the note on clearance between asbestos board and cadweld under 1/2 inch. This clearance problem is mentioned by Stokes on p.9 and is the same one he mentions on p.8 as appearing with the same "never again" language ("Future clearance to be 1/2 in minimum) on several other pours in the early going, i.e. ICB SL 216001, -004 and 005).

The fifth enclosure is the concrete strength information from ICBXW 308001 of 8-29-83, a single sheet. (Stokes, p.7) Note the reference to 9% air in pretest under "remarks".

The sixth enclosure is the entire package for ICB SL 216001. It documents the slump, waterstop and vibration problems (Stokes, pp 8- and also the asbestos board problem, e.g. on 216004 sheet 1 of 4, Field inspection Report, and likewise 216005, sheet 1 of 3, re clearance to asbestos board. This package is as it came to me from CP&L except reproduced on front-and-back of pages to save paper, to the best of my knowledge.

The seventh enclosure is the concrete repairs report on the large void in pour ICB SL 216002 (Stokes, pp 9-10).

The eighth enclosure is from pour ICBXW219001 (Stokes pp 3-4) including the strength data on cylinders (last page of enclosure). Note the approvals on the next-to-last sheet in spite of the problems noted by Stokes. The comments on exposed aggregate are on the front sheet under "comment & Clarification to Proposed Methods", upper right quadrant of the sheet.

I am leaving blank space in case I have another enclosure to describe when I get this to the printers.

The ninth enclosure is from pour ICBXW 256004, showing the statements (2d page) about "a most difficult placement" and warning workers about vibration. (Stokes, pp. 4-5)

If there is further information I can supply, please do not hesitate to contact me, preferably on or before 29 June.

Wells Eddleman
Wells Eddleman

CC w/enclosures: Charles Stokes.

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the matter of CAROLINA POWER & LIGHT CO. Et al.)
Shearon Harris Nuclear Power Plant, Unit 1)

Docket 50-400
C.L.

CERTIFICATE OF SERVICE

I hereby certify that copies of Letter of 6-2x6-84 to Board
with Enclosures re Concrete Pour Packages and Stokes Affidavit on E-65
HAVE been served this 26 day of June 1984, by deposit in
the US Mail, first-class postage prepaid, upon all parties whose
names are listed below, except those whose names are marked with
an asterisk, for whom service was accomplished by Including
one copy of the entire 5% sample of pour packages reviewed

by Charles Stokes.

Judges James Kelley, Glenn Bright and James Carpenter (1 copy each)
Atomic Safety and Licensing Board
US Nuclear Regulatory Commission
Washington DC 20555

George F. Trowbridge (attorney for Applicants)
Shaw, Pittman, Potts & Trowbridge
1800 M St. NW
Washington, DC 20036

Ruthanne G. Miller
ASLB Panel
USNRC Washington DC 20555

* Office of the Executive Legal Director
Attn Dockets 50-400/401 O.L.
USNRC
Washington DC 20555

Spence W. Perry
FEMA- Room 840
500 C St SW
Washington DC 20740

Docketing and Service Section (3x)
Attn Dockets 50-400/401 O.L.
Office of the Secretary
USNRC
Washington DC 20555

Dan Read
CHANGE/FLP
5707 Wavcross
Raleigh, NC 27606

John Runkle
GCNC
307 Granville Rd
Chapel Hill NC 27514

Dr. Linda W. Little
Governor's Waste Mgt. Bd.
513 Albemarle Bldg.
325 N. Salisbury St.
Raleigh, NC 27611

Travis Payne
Edelstein & Payne
Box 12607
Raleigh NC 27605

Robert Gruber
Exec. Director
Public Staff
Box 991
Raleigh NC 27602

Bradley W. Jones
USNRC Region II
101 Marietta St.
Atlanta GA 30303

Richard Wilson, M.D.
729 Hunter St.
Apex NC 27502

Certified by

W. D. Eddleman

FORM NO. 1767
Rev. 8
12/81
CONCRETE
PLACEMENT
REPORT

CP21
SHNPP

Exhibit 1
WP-05

FILE

PLACEMENT NUMBER

1CBXW2901011

LOCATION (INCLUDE ELEV IF IN BLDG.)

CONTAINMENT #1 51 290

SCHEDULED DATE

7/23/82

TYPE PLACEMENT

CAF. W/CL

ESTIMATED QUANTITY

35 cu yd

TEMP. LIMIT

50-90°F

SEISMIC CLASS

CLASS I

YES NO

X

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF	UNFORMED SURF
BUGGY	<input type="checkbox"/> CHUTE	<input type="checkbox"/> INTERNAL	<input checked="" type="checkbox"/> STEEL TROWEL	<input type="checkbox"/> FORMS ALONE	<input checked="" type="checkbox"/> WET BURLAP
BUCKET	<input type="checkbox"/> TREMIE	<input checked="" type="checkbox"/> FORM	<input type="checkbox"/> WOOD FLOAT	<input type="checkbox"/> TARPES	<input type="checkbox"/> POLYETHYLENE
CONVEYOR	<input type="checkbox"/> DROP	<input checked="" type="checkbox"/>	<input type="checkbox"/> HAIR BRUSH	<input type="checkbox"/> INSULATION	<input type="checkbox"/> CURING COMPOUND
PUMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BROOM FINISH	<input type="checkbox"/> FORMS & WATER	<input type="checkbox"/> KUREZ
TRUCK	<input type="checkbox"/>	<input type="checkbox"/>	RUBBER FLOAT	<input type="checkbox"/>	<input type="checkbox"/> NUTEC 10
			EXP. AGG. SUR	<input checked="" type="checkbox"/>	<input type="checkbox"/> QUAD CURE
			Agg. Conc. C		GALLONS REQUIRED

ANTICIPATED WEATHER
CONDITIONS: HOT

SERVICE COND. MILD
PROTECTION EXTENDED
CURE (DAYS) 7

COMMENT & CLARIFICATION TO PROPOSED METHODS

EXT. WALL FLOOR A-22 TO 30' C.E.L.
226.83 TO 289.23' AN

PRIMARY MASONRY DWG. NO.

2167-G-0631 R-7

RATE OF RISE

2' / HR

DES. STRENGTH

5.0 KSI

DESIGN MIX CODE

M-1721

NAME, TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: Dave J. Ryan TITLE: A.E. DATE: 7/16/82

PRE-PLACEMENT
CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY ASSURANCE

	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	Q.C. SIGNOFF	DATE	Q.A. SIGNOFF
1 CONTACT SURFACES	W-205	W-205	W-205	7-23	R. Breudlow	HA		7-23	R. Breudlow
2 FORMS	W-22	W-22	W-22	7-23	R. Breudlow	HA		7-23	R. Breudlow
3 REINFORCING STEEL	W-11	W-11	W-11	7-23	R. Breudlow	HA		7-23	R. Breudlow
4 EMBEDS				7-23	R. Breudlow	HA		7-23	R. Breudlow
5 MECHANICAL									
EMBEDS									
PIPE	W-102	W-102	W-102	7-23	R. Breudlow	HA		7-23	R. Breudlow
6 ELECTRICAL	W-201	W-201	W-201	7-23	R. Breudlow	HA		7-23	R. Breudlow
7 CADWELDS	W-201	W-201	W-201	7-23	R. Breudlow	HA		7-23	R. Breudlow
8 BOP WELDING				7-23	R. Breudlow	HA		7-23	R. Breudlow
9 CODE/SEISMIC WELDING									
10 CLEAN-UP	W-05	W-05	W-05	7-23	R. Breudlow	HA		7-23	R. Breudlow
11									
12									

CONSTRUCTOR SIGN OFF (AREA SUPT)

TIME:

C.I. SIGNOFF

TIME: 10:00AM

DATE: 7-23-82

DATE: 7-23-82

DATE: 7-23-82

DATE: 7-23-82

DESIGN APPROVAL

TIME OF START

DATE PLACED

DATE: 7/23/82

10:30

07-23-82

YDS. CONCRETE
DELIVERED

1413

YDS PLACED IN
THIS PLACEMENT

42

YARDS WASTED

CONCRETE

02

YARDS GROUT
DELIVERED

03

CONCRETE

41

YARDS PLACED

CONCRETE

0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME Russell J. Breudlow

TITLE 7-23-82 C.I.

DATE: 7-23-82

REMARKS (ATTACH RELEVANT REPORTS)

* Reinforcing shifted for access - 6 #18's 240 to 300' - Replaced & set 7-26-82

000566

.4 Number of Test Cylinders

The number of test cylinders to be made under various conditions shall be as follows:

	<u>Min No. of Cylinders</u>	<u>Test Breaks</u>				
		<u>3 Day</u>	<u>7 Day</u>	<u>28 Day</u>	<u>Extra</u>	
Until final determination of each design mix for each class of concrete placed in any one day.*						
Each 100 cu yd or fraction thereof	14	4	4	4	2	
For each class of concrete of determined mix placed in any one day						
Each 100 cu yd or fraction thereof (or a minimum of one set per day)	4	-	1	2	1	R4
* This is intended to cover only those new design mixes, created by modification of determined design mixes, which have not been proven by the test lab prior to their placement. When 100 or more test cylinders for a new design mix has proven the mix to be acceptable to the Engineer, the number of test cylinders required for each 100 cu yd or fraction thereof may be reduced to a minimum of 4.						

The extra cylinders will only be tested if it is necessary to substantiate 7 or 28 day test results.

.5 Evaluation of Strength Tests

The concrete cylinders shall be tested for compressive strength in accordance with ASTM C39. The strength level of the concrete shall be considered satisfactory if:

- a - No individual strength test results falls more than 500 psi below the required class strength at 28 days.
- b - The averages of all sets of three consecutive strength test results equal or exceed the required class strength at 28 days.

- 21 -

Concrete Materials and Mixes
Concrete Mixing and Transportation
and Concrete Testing

13. SAMPLING AND TESTING (Cont'd)

.5 (Cont'd)

Each 28 day strength test result shall be the average of two cylinders from the same sample. The variation between the two cylinders shall be not more than five (5) percent of their average. A greater variation shall require testing of the third (spare) cylinder to determine the average strength. If the third cylinder strength "variation" is also greater than five (5) percent from the average, the Owner shall determine the reason for such a wide variation in test results and rectify it. R4 R9 R4

The coefficient of variation for the tests on each mix as determined in accordance with ACI 214, shall not be greater than fifteen (15) percent. A greater variation will require a review of concrete batching, mixing and transporting facilities and procedures to assure a reduction in this coefficient to the required fifteen (15) percent or lower. Refer to ACI 214 for correlation between the coefficient of variation and the average compressive strength requirements. R7

.6 Test for Entrained Air and Consistency

Concrete shall be tested for consistency in accordance with ASTM C143

Ebasco S.H.
Concrete
Specification
pp 21-22

Rev. 9
7/82

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
POST PLACEMENT CHECKLIST

Exhibit 2
TP-15

PLACEMENT NO. 108X0290001

LOCATION Cont. #1 Ext. Wall

PLACED 7-23-82

SURFACE AREA N/A

END OF CURE 7-30-82

CURE COMPOUND (AMOUNT) N/A

CURE/PROTECTION REQUIREMENTS Special handling / Extended Protection 17 days moist cure

CHECKLIST	REMARKS	INITIALS	
<u>FINISH</u>			
A. Steel Trowel	N/A	RLB	
B. Wood Float	N/A	RLB	
C. Broom	N/A	RLB	
D. Hair Brush	N/A	RLB	
E. Rubber Float	N/A	RLB	
F. Keyways Installed	N/A	RLB	
<u>FORMS</u>			
Form & Shoring Removal	Complete except for seismic gap	RLB	
<u>REPAIRS</u>			
Type of Repair Required	<input checked="" type="checkbox"/> Cosmetic <input type="checkbox"/> Structural <input checked="" type="checkbox"/> Forms Still In Place in seismic gap	RLB	
<u>EMBED PLATES W/SCREW-IN-STUDS</u>			
Thread Engagement	N/A	RLB	
<u>SEISMIC GAP</u>			
Proper Gap Maintained	Forms still in place in gap	RLB	
<u>CURING/PROTECTION</u>			
A. Water	<input checked="" type="checkbox"/> N/A	Sat - 7 days moist cure	RLB
B. Curing Compound	N/A	N/A	RLB
C. Ponding	N/A	N/A	RLB
D. Burlap	N/A	N/A	RLB
E. Wet Sand	N/A	N/A	RLB
F. Polyethylene	N/A	N/A	RLB
G. Temperature	<input checked="" type="checkbox"/> N/A	Sat - 7 days, $\geq 50^{\circ}\text{F}$	RLB

COMMENTS:

CONSTRUCTION INSPECTOR

Russell J. Bredelove

DATE 8-16-82

CONSTRUCTION INSPECTION SUPERVISOR

Robert L. Taylor

DATE 8-21-82

7-24-82

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 1 of 1

PLACEMENT NO. 1C BX 239000X DATE 7-23-82

MODE OF PLACEMENT Pump

LOCATION South of Waste Processing

WEATHER: () CLEAR () OVERCAST () RAIN () OTHER
() HAZY () FOG () P. CLOUDY

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLIMP (13)	TEMP. (°F)	THERM. NO.	AIR (2)	AIR METER NO.	UNIT WT.	UNIT BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
											DAY	RESULTS	DAY	DAY			
8765	10:45 AM	8	4	86	CP-2 4765B	5-8	CP-2 4854	140.1	CP-2 4854	CP-2 21258	3470	* 2125	* 4850		1	9265	NC-2 2505 13547
	1 AH																
	1 PH																
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SLIMP REQUIRED 0-4 MAX in.
AIR REQUIRED 4-8 2

DESIGN MIX # USED M-72
DESIGN STRENGTH 5000 PSI
FIELD QA/QC INSPECTOR Ricky Shindland
LAB QA/QC INSPECTOR Larry Cote
DATE 7-23-82
DATE 8-23-82
QA/QC SPECIALIST Eugene Kelly
DATE 8-24-82

AFF-C 1
Rev. 1b
2/4/82

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD CHANGE REQUEST/PERMANENT WAIVER

AP-IX-05
Exhibit 1

Page 1 of 2

Type of Request:

☒ Permanent Waiver to "use-as-is"

☐ Field Change

☒ See Recommended Action

Nonconformance ☐ No

☒ Yes

Report No. NCR-C-508

☐ Non-ASME

☐ ASME Section III Division 1

☒ ASME Section III Division 2

☒ Q

☐ Non-Q

ORIGINAL

Identification of Area and Item: Low Concrete Compression Cylinder Breaker
for placement 1CBXW290 001

Conflict/Condition

Reference Documents or Attachment

CAR-SH-CH-6 Sect. I Para. 13.5a Rev. 10

The only production set of cylinders cast for placement 1CBXW290 001 failed to achieve the required minimum 28 day concrete compressive strength of 5000 psi. This placement is located on the Containment Exterior wall from Azimuth 240° to Azimuth 300° between elevations 286.33' to el. 289.93'. The actual average 28 day cylinder strength (laboratory moist cured) for this placement was 4865 psi. See attached Concrete test Report.

Recommended Action:

☐ Please Investigate and Resolve

☒ Please Resolve as Follows

Accept the placement as-is.

RECEIVED
DOCUMENT CONTROL

SEP 17 1983

SHEARON HARRIS N.P.

Justification: The reserve "D" cylinder was retained and continually moist cured in the laboratory for a total of 90 days. At this time the cylinder was compression tested and found to have a strength of 5660 psi. This is in excess of the 5000 psi design requirement. There is not a trend developing for low breakers in M-72 power block concrete.

Requested by:

Site Approval: CATEGORY I

W.C. Pridgen
Discipline Engineer

12/1/82
Date

Bill Mayle for INET
Senior Resident Engineer

12/1/82
Date

PW - C - 3769

Page 2 of 2

Design Organization Approval

☐ AE

☐ NSSS

☒ NPED Only ☐ Other

Telephone Resolution ☐ Yes ☐ No

☐ Approved as Recommended

☐ Rejected

Design Organization Attachments ☐ Yes ☐ No

☐ Conditional Approval

This change requires the following Document(s) (Specification, Drawing, SAR, etc.) to be changed

Comments:

Signature

Title

Date

Signature

Title

Date

MINOR CHANGE, NO CP&L Harris Plant Engineering Approval
VERIFICATION NEEDED

HPES Attachments

☒ Yes

☐ No

☒ Approved as Recommended

☐ Rejected

☐ Conditional Approval

TEST BREAKS ARE ATTACHED.

Discipline Engineer

Date

9/16/83

MHPE or PPE

Date

9/16/83

Site Concurrence: Recommend

☐ Implementation

☐ Alternate Resolution

☐ Rejected

Senior Resident Engineer Date

Distribution:

(Original) Document Control

(Copy)

(Copy) W. O. Fridson

(Copy)

(Copy) S. R. Holmes

(Copy)

Implementation Completed as Approved?

☒ Yes

☐ No

Comments:

Discipline Engineer

Date

9/24/83

Final Distribution:

(Original) File in Doc. Control

(Copy)

(Copy)

(Copy)

(Copy)

(Copy)

7-24-82

CORPORATE QUALITY ASSURANCE DEPARTMENT
CONCRETE TEST REPORT
(Procedure CQC-13)

PLACEMENT NO. 1C BX W 290007 DATE 7-23-82

MODE OF PLACEMENT Per 107 p2

LOCATION South of Waste Processing

WEATHER:	() CLEAR	() OVERCAST	() RAIN	() OTHER
	() HAZY	() FOG	() P. CLOUDY	

[illegible]

STAMP REQUIRED 0-4 MAX IN.

DESIGN MIX / USED M-72

FIELD
QA/QC INSPECTOR Richy Stubbins DATE 7-1-82

AIR REQUIREMENT		4-5	7.
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
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99	99		
100	100		

DESIGN STRENGTH
FOR PLACEMENT

LAB QA/QC INSPECTOR Angie Carter DATE 8-1-82
Ernest Kall DATE 8-1-82

PW-C-3769 Sheet 4 of 4

COMPRESSIVE STRENGTH EVALUATION

PLACEMENT # 1CBXW290001

MIX # 72, 5000 PSI

LAB #	AVERAGE 28 DAY STRENGTH, PSI	RUNNING AVERAGE OF THREE, PSI
8176	5635	5180

8381	5040	4670
------	------	------

9265	4865	4790
------	------	------

9323	4105	-
------	------	---

9397	5400	-
------	------	---

EVALUATION: IN ACCORDANCE WITH CAR-5H-CH-6

- ① THE 28 DAY TESTS ARE NOT 500 PSI OR MORE BELOW THE REQUIRED STRENGTH.
- ② THE RUNNING AVERAGE OF ALL GROUPS OF THREE CONSECUTIVE TEST AVERAGES ABOVE THE REQUIRED STRENGTH OF 5000 PSI.
- ③ THE 28 DAY STRENGTH IS CONSIDERED A FAILURE FOR NOT MEETING CRITERION NUMBER TWO.

HPES ATTACHMENT
TO PW-C-3769

PAGE 1 OF 2

CAROLINA POWER & LIGHT COMPANY -
SHEARON HARRIS NUCLEAR POWER PLANT

Date Placed 7-23-82

Placement No. ICBXW290001

TEST RESULTS

Compression Machine CAL M-43105

CORE IDENTIFICATION	AGE	DATE TESTED	TOTAL LOAD, LBS.	DIA. INCHES	CAPPED LENGTH INCHES	AREA SQ. IN.	L/D	P.S.I.	CORRECTION FACTOR	CORRECTED P.S.I.
1	7	8-8-83	10900	1.74	8.25	2.38	4.7	4580	-	-
2	7	8-8-83	5800	1.74	7.125	2.38	4.1	2440	-	-
3	7	8-8-83	9600	1.74	6.50	2.38	3.7	4030	-	-

REMARKS

LAB INSPECTOR

Wendy J. Wooten

DATE 8-8-83

QA SPECIALIST

Donald Suggs

DATE 8-8-83

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Date Placed _____

Placement No. ICBXW290001TEST RESULTSCompression Machine CRLM-43105

CORE IDENTIFICATION	AGE	DATE TESTED	TOTAL LOAD, LBS.	DIA. INCHES	CAPPED LENGTH INCHES	AREA SQ. IN.	L/D	P.S.I.	CORRECTION FACTOR	CORRECTED P.S.I.
1	7	8-23-83	12400	1.76	3.81	2.43	2.2	5100	-	-
2	7	8-23-83	8800	1.76	3.75	2.43	2.1	3620	-	-

REMARKS _____

LAB INSPECTOR

Wendy J. WootenDATE 8-23-83

QA SPECIALIST

Albert C. L.DATE 8-25-83

2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

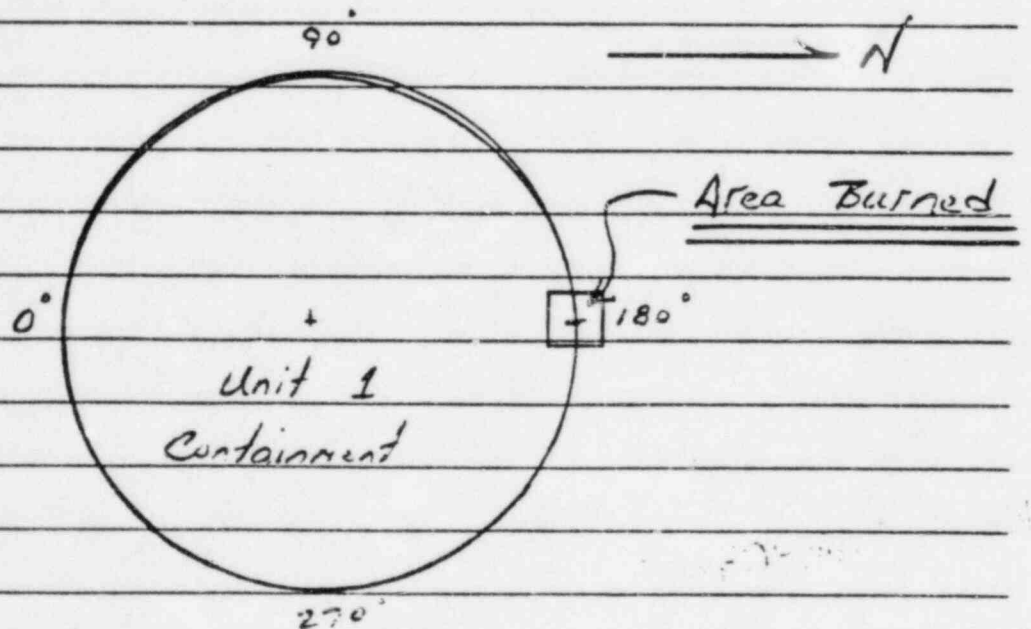
FIELD INSPECTION REPORT

Date 7/26/78 Spec. No. WP-02
Location Unit No. 1 Inspector Randy G. Godwin
Elevation Containment Bldg. Shift Day
Placement No. 1CBSL216002 Weather Sunny, Mild

COMMENT

Accidental Burning of Waterproof Membrane

During a daily inspection of the waterproof membrane and waterstop on the Fuel Handling Building wall, the above inspector noticed an area of waterproof membrane burned by cadweld operations. The Area Superintendent and General Foreman were notified of this problem and in turn we were informed that it would be corrected.



cc: Jim Nevill
Charles Nail
Ken Fuller
Jim Lathan

INSPECTOR Randy G. Godwin
Q A REVIEW Eugene Kelly 9/21/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1CB5L216002

Sheet 1 of 2

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 115° to 180° Fuel Handling Wall Between Peglets and End of membrane to waterstop.	Several Holidays Detected and patched in accordance with WP-02	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stanley Carter Date 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikastix Epoxy Cement	<u>None</u>	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: N/A Date 5/24/78
3	Repair of Vinaliner Membrane Six accidental Holes drilled on 204 Elevation. (0° - 270°)	<u>None</u> N/A	<u>None</u> N/A	<u>Satisfactory</u> Area patched and New concrete replaced	Randy G. Godwin Individual Notified: Jim Cathan Date 7/12/78
4	Repair of Waterstop Azimuth 225° ± Elevation 204 Waterstop burned during Cadweld operation.	Area was chipped out and waterstop replaced checked 7/14/78 P.G.B.	<u>None</u> Not Applicable	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Cathan Date 7/14/78
5	Waterstop Butt Splices 200° ± 215° ±	<u>None</u> All Splices made in accordance with WP-12.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J. C. Hyatt Date 7/21/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1CB5L216002

Sheet 2 of 2

Location Unit No 1 Containment Bldg

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Waterstop & Waterproofing</u> Azimuth 180° Accidental Burning by Cadweld	<u>None</u> Patching in progress by Carpenters and Painters (Completed Satisfactory 7/28/78)	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/26/78
2	<u>Waterstop</u> Alignment Inspection 151-50° to 208-11°	Two violations noted. Reported to Foreman and corrected.	<u>None</u> All req'd. waterstop in place. Needs to be tied down prior to concrete placement.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 8/2/78
3	<u>Waterstop</u> Entire Placement 151-50° to 208-11°	<u>None</u> All work performed in accordance with WP-02.	Final check completed 8/15/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Cathan Date 8/15/78
4					Individual Notified: Date
5					Individual Notified: Date

SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L211,002

Sheet 1 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

7.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy D. Gohwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2 inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Gohwin
3	Elevation 198 ft. Bottom Reinforcing East-West Bars	<u>None</u> All req'd. bars in place.	Five clearance and spacing violations were noted and corrected.	<u>Satisfactory</u>	Frank Collins Satisfactory Individual Notified: 5/8/78 Date Randy G. Gohwin
4	Elevation 204 ft. Bottom Reinforcing Circumferential Bars	<u>None</u> All req'd bars in place.	Problem with Spacing Tolerance at Cadweld Joint of bars (QA Hold) Corrected AM 6/6/78	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy D. Gohwin
5	Elevation 201 ft. U Bars in Key Way between Containment and Fuel Handling Bldg.	<u>None</u> All req'd bars in place.	Spacing tolerance and location out on North-South Bars. Problem corrected PM 6/4/78	<u>Satisfactory</u>	Randy G. Gohwin Individual Notified: Frank Collins Date 6/6/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L21002

Sheet 2 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IC INSPECTOR
1	Elevation <u>204</u> Bottom Mat Circular Bars Radial Bars Const. Joint between 151'-5" to 180' Drwg. 0613	To be checked at later date quantity Not complete 6/8/78	outside circular bars, out of tolerance in several areas. Notified Foreman	Satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrnd Date 6/8/78
2	Elevation <u>204</u> Bottom Mat Circular Bars Radial Bars Const. Joint between 151'-5" and 180' (Lower Layer of) Lower Mat	None	Several violations noted and corrected 6/12/78.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/12/78
3	Elevation <u>204</u> Bottom Mat Circular Bars Radial Bars Const Joint between 151'-5" and 180' Lower Layer of Lower Mat	None	All spacing violations corrected and checked out. 6/13/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins - G.F. Date 6/13/78
4	Elevation <u>204</u> Bottom Mat Bottom Layer Circum. Bar (0' - 22')	None	Several areas spacing out of tolerance, reported to Foreman.	Satisfactory	Randy G. Godwin Individual Notified: Jim Elliott Date 7/12/78
5	Elevation <u>204</u> Bottom Mat Bottom Layer Circular Bars (151'-5" - 208' 10")	None All req'd. bars in place.	Several bars marked which did not meet spacing tolerances. Foreman notified and corrections in progress.	Satisfactory SPK	Randy G. Godwin Individual Notified: Frank Collins Date 7/19/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. ICBSL 216002

Sheet 3 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	CC INSPECTOR
1	Elevation <u>204</u> Bottom Mat Bottom Layer Radials (180° - 208°10')	Several bars not placed as of 7/21/78 <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
2	Elevation <u>204</u> Bottom Mat Lower & Upper Layers Circulars & Radials (151°50' - 208°10')	<u>None</u> All req'd bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
3	Elevation <u>210</u> #18 bars in Reactor Vessel Access Area North-South Bars East-West Bars (151°50' - 208°10')	<u>None</u> All req'd bars in place. 1 additional cad weld needed to eliminate problem with survey stand.	Several areas noted and reported to General Foreman for corrections.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
4	Elevation <u>216</u> Top Mat Bottom Layer Radials & Circulars 151°50' - 208°10'	Several bars left out to accommodate wall dowel installation. To be replaced after wall dowels are set.	Areas need to be lined up and tied down. Reported to General Foreman.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 8/2/78
5	Elevation <u>216</u> Top Mat Upper & Lower Layers Radials & Circulars 151°50' - 208°10'	<u>see above (4)</u>	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/5/78.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Jim Laska Date 8/5/78

CAROLINA POWER & LIGHT
SHEARON HARPIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216002

Sheet 4 of 4

Location Unit No. 1 - Containment Bldg.

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 216</u> <u>Top Mat</u> Radials, Circum, ' Wall Dowels 15'-50' to 20'-10'	<u>None</u> All areas checked, and corrections verified.	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> <u>8/18/78</u>	<u>Satisfactory</u>	<u>Randy G. Goshwin</u> Notified: <u>Frank</u> <u>Callins</u> Date <u>8/18/78</u>
2					Individual Notified: Date
3					Individual Notified: Date
4					Individual Notified: Date
5					Individual Notified: Date <u>SPK</u>

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1 CB5L216003

Sheet 1 of 12

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Repair of Waterstop</u> ① Azimuth 270 ± ② Azimuth 320 ± Elevation 204 Waterstop burned during cadweld operation.	Areas are to be chipped out and waterstop replaced by patching. <u>Work Not completed</u> 7/19/78			Randy G. Godwin Individual Notified: Jim Lathan Date 7/19/78
2	<u>Waterstop</u> Butt Splices 325 ± 200 ± 340 ± 275 ±	<u>None</u> All splices made in accordance with WP-12.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/21/78
3	<u>Waterstop</u> Alignment Inspection 270° - 320°	one area burned by cadwelding. Reported to Superintendent and corrected.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 8/2/78
4	<u>Waterstop</u> 204 ± Accidental burning by cadweld operations. 280 ±	Area corrected on 8/8/78.		<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/8/78
5	<u>Waterstop</u> Entire Placement 270° - 303°	<u>None</u> All work performed in accordance with WP-02.	<u>Final check completed</u> 8/15/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/15/78

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CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB3L211005

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2107-G- 0610 0611 0612 0613 0614 0617

INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1. Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Randy G. Godwin
2. Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2 inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Randy G. Godwin
3. Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) (Recess Area)	<u>None</u> All req'd. bars in place	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Randy G. Godwin
4. Elevation 204 ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 270° - 360°	<u>None</u> All req'd bars in place	Several violations noted and Foreman notified	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrock Date 6/15/78
5. Elevation 201' Shear Key - U Bars (303° - 270° 191°)	<u>None</u> All req'd bars in place.	Bars not completely tied down. Awaiting circular and radial bar installation.	<u>Satisfactory</u> ETH	Randy G. Godwin Individual Notified: JIM ELLIOTT Date 7/6/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216003

Sheet 2 of 3

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 204 Bottom Mat Bottom Layer Circular Bars (270° - 0°)	<u>None</u> All req'd bars in place.	Several bars marked which did not need spacing tolerances. Foreman notified and corrections in progress.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/19/78
2	Elevation 204 Bottom Mat Bottom Layer Radials (270° - 330°)	Several bars not placed as of 7/21/78 <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
3	ELEVATION 204 Bottom Mat Reinforcing around Valve Chambers at Azimuth 315°	<u>None</u> All req'd bars in place.	Several bars violate spacing tolerance. General Foreman was notified.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/26/78
4	Elevation 204 Bottom Mat Lower & Upper Layers Circum & Radials (270° - 360°)	<u>None</u> All req'd bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/25/78
5	Elevation 210 #18 bars in Reactor Vessel Recess Area North-South Bars East-West Bars (270° - 360°)	<u>None</u> All req'd bars in place. 1 additional cadwell needed to eliminate problem with Survey Stand.	Several areas noted and reported to General Foreman for corrections.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216003

Sheet 3 of 3

Location Unit No. 1 Containment Bldg.

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 216</u> Tip Mat Upper & Lower Layers Radials & Circulars (270° - 303°)	Some bars left out to accommodate wall Dowel installation.	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/8/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Jim Colhan Date 8/8/78
2	<u>Elevation 216</u> Cylinder Wall Dowels All Rows 270° - 303°	<u>None</u> All bars in place.	Some Spacing violation noted. Reported to General Foreman 8/15/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Frank Collins Date 8/15/78
3	<u>Elevation 216</u> Shear Truss Bars 270° - 303°	Several bars found to be left out because of support steel. Replaced 8/15/78	<u>None</u> All spacing meets tolerance.	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Jim Elliott Date 8/15/78
4	<u>Elevation 216</u> Top Mat Radials, Circulars & Wall Dowels 270° - 303°	<u>None</u> All areas checked and corrections verified.	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> 8/18/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Frank Collins Date 8/18/78
5					Individual Notified: Date

TP-21
Exhibit 1

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1CB5L216006

Sheet 2 of 2

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Waterstop</u> Butt Splices 215° ± 270° ±	<u>None</u> All splices made in accordance with WP-12.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/21/78
2	<u>Waterstop</u> Alignment Inspection 270° - 320° 208-11' - 270'	One area rejected because of minimum 13-in. splice not being performed. Reported to General Foreman and Superintendent and corrected		<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/2/78
3	<u>Waterstop</u> Elev. 2.4 Accidental burning by Cadweld operations 250 ±	Area corrected on 8/8/78		<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/8/78
4	<u>Waterstop</u> Entire Placement 208-10' - 270'	<u>None</u> All worked performed in accordance with WP-02.	Final check completed 8/15/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/15/78
5				<u>SPK</u>	Individual Notified: Date

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CBSL 216006

Sheet 1 of 3

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by Field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Godwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2" min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Godwin
3	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) Recess Area	<u>None</u> All req'd. bars in place.	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy G. Godwin
4	Elevation 204 ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 250° - 310°	<u>None</u> All req'd. bars in place.	Several violations noted and Foreman notified.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrod Date 6/15/78
5	Elevation 201 Shear Key - U Bars (270° - 191°)	<u>None</u> All req'd. bars in place.	Bars not completely tied down. Awaiting circular and radial bar installation.	<u>Satisfactory</u> EPK	Randy G. Godwin Individual Notified: Jim Elliott Date 7/6/78

Exhibit 1
77-11

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216006

Location Unit No. 1 Containment Building

Sheet 2 of 3

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 204 Bottom Mat Bottom Layer Circular Bars (208'-10" - 270')	<u>None</u> All req'd. bars in place.	Several bars marked which did not meet spacing tolerance. Foreman notified and correction in progress.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/19/78
2	Elevation 204 Bottom Mat Bottom Layer Radials (208'-10" - 270')	Several bars not placed as of 7/21/78. <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
3	Elevation 204 Bottom Mat Reinforcing around Valve Chambers at Azimuth 225'	<u>None</u> All req'd. bars in place.	Several bars violate spacing tolerance. General Foreman was notified.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/26/78
4	Elevation 204 Bottom Mat Lower & Upper Layers Circum & Radials (208'-10" - 270')	<u>None</u> All req'd. bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
5	Elevation 216 #18 bars in Reactor Vessel Recess Area North-South Bars East-West Bars (208'-10" - 270')	<u>None</u> All req'd. bars in place. additional 1/4" Cadweld needed to eliminate problem with survey stand.	Several areas noted and reported to General Foreman for correction.	<u>satisfactory</u> EJC	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78

Exhibit 1
FD-1

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1 CT35L216 006

Sheet 3 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	CC INSPECTOR
1	<u>Elevation 216</u> Top Mat layers Upper & Lower Mat Radials & Circum. (208'-10' - 270')	Some bars left out to accommodate wall diel installation.	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/8/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Jim Latta Date 8/8/78
2	<u>Elevation 216</u> Shear Truss Bars 208'-10' - 270'	Several bars found to be left out because of support steel. Replaced 8/15/78	<u>None</u> All spacing meets tolerance.	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Jim Elliott Date 8/15/78
3	<u>Elevation 216</u> Cylinder Wall Dowels All Rows 208'-10' - 270'	Several bars found <u>None</u> All bars in place.	Some spacing violations noted. Reported to General Foreman. 8/15/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Frank Collins Date 8/15/78
4	<u>Elevation 216</u> Top Mat Radials, Circum, & Wall Dowels 208'-10' to 270'	<u>None</u> All areas checked and corrections verified	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> 8/15/78	<i>satisfactory</i>	Randy G. Godwin Individual Notified: Frank Collins Date 8/18/78
5					Individual Notified: Date

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-15
Exhibit 2

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBSL216002

LOCATION Unit # 1
Containment Building

CHECKLIST	REMARKS	INITIALS
Defects Repaired ^(QA) <u>Notified</u>	<u>(Being Patched)</u> Large cavity at west north V.C.	RGG
Anchor Holes Grouted	Satisfactory	RGG
<u>CURING</u>		
A. Water ✓	Satisfactory	RGG
B. Curing Compound		
C. Ponding ✓	Satisfactory	RGG
D. Burlap (Wet) ✓	Satisfactory	RGG
E. Wet Sand		
F. Polyethylene		
G. Temperature ✓	Satisfactory	RGG
<u>FINISH</u>		
A. Steel Trowel		
B. Wood Float (Bull) ✓	Satisfactory	RGG
C. Broom		
D. Hair Brush		
E. Rubber Float		
Exposed Aggregate	Satisfactory	RGG

QC INSPECTOR

Randy S. Edwin

DATE

9/8/78

PRINCIPAL SITE CIVIL ENGINEER

L. S. ... SPR

DATE

9/18/78

FOR INFORMATION ONLY - POLYMER MODIFIED CONCRETE TEST REPORT

PROJECT NO. 10354216002 DATE 8/17/78 (Procedure: CMC-11)
 LOCATION #1 containment Bldg. (pump discharge)
 METHOD: ☒ CEMENT ☐ OVERCAST ☐ RAIN ☐ P. CLORIDY
 AMBIENT TEMP. 78 °F
 THERMOMETER NO. M4506

TIME NO.	TIME SAMPLED	EQUIPMENT TYPE	FICKET NO.	SLURRY (%)	CONG. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
											RESULTS			
											1 DAY	5 DAY	DAY	
22	6:00	10	15381	2 1/2	88	M4506	M4507A			20				293
29	6:25	10	15382	2	85	M4506	M4507A	142.5	M4507A	20	4850	6610	6370	Set 1 1565
25	7:20	10	15389	3	80	M4510	M4507A			10				294
29	7:35	10	15394	3 1/4	82	M4510	M4507A	142.5	M4507A	17	4700	5700	5510	Set 2 1566
26	7:50	10	15399	1 3/4	82	M4510	M4507A			6				295
23	8:20	10	15404	1 3/4	80	M4510	M4507A	144.1	M4507A	0	4440	5800	5590	Set 3 1567
23	8:35	10	15409	2 3/4	82	M4510	M4507A			0				296
30	9:40	10	15414	3	82	M4510	M4507A	144.6	M4507A	0	400	4740	4950	Set 4 1568
29	9:50	10	15419	3	82	M4510	M4507A			0				297
24	10:15	10	15424	2 3/4	82	M4510	M4507A	144.4	M4507A	0	4070	5840	5820	Set 5 1569
22	10:28	10	15429	2 1/4	80	M4510	M4507A			0				298
22	11:05	10	15434	1 3/4	80	M4510	M4507A	141.6	M4507A	0	4210	5720	5580	Set 6 1570

SLURRY REQUIRED 4 1 10
 AIR REQUIRED 6 2 7
 DESIGN MIX # M-56
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Ricky Stuchland DATE 8-17-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-15-78

PLANT IDENT. No. 216003 DATE 8-18-78 (Procedure GPC-110)
 LOCATION ... vicinity (Camp D-24 AHRC)
 WIND: () CALM () OVERCAST () RAIN () OTHER _____
 () B. () FOG () P. CLOUDY _____

AMBIENT TEMP. 74 °F.
 THERMOMETER NO. 100176

TRUCK NO.	TIME SAMPLED	ELEVATION THREE YEAR	TICKET NO.	SLEEP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (°)	AIR METER NO.	UNIT WT. TUB	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
												7 DAY	28 DAY	DAY	
22	3:45		12455	4 1/4	50	1426	24	144557			0				1st recorded on page 2
23	3:45		12552	5 3/4	50		40	144558	142.4	144558	0	4000	5620	5730	1st 1905 1577
26	4:15		12525	4 1/2	50		6.5		132.3	144559	0	3680	5200	5310	2nd 1905 1578
27	4:30		12510	3 3/4	75		6.5				0				
24	4:45		12504	2 1/4	75		5.0		143.0	144560	0	4350	6010	5840	3rd 1905 1579
25	5:15		12520	2.0	75		5.1				0				
27	5:45		12525	2 1/4	50		5.5		143.3	144561	0	4780	6190	6230	4th 1905 1580
26	6:15		12530	2 3/4	75		4.7				0				
22	1:20		12535	6.0	50	17	3.2		146.4	144562	0	4320	5730	5550	5th 1905 1581
27	6:45		12540	5.0	75	144566	6.0				0				
29	2:15		12541	4.0	80		6.5		144.8	144563	0	4320	5910	5600	6th 1905 1582
23	5:15		12537	3 1/4	80	17	6.6				12				

SLAB REQUIRED	9	$\frac{1}{4}$	in.
AIR REQUIRED	6	$\frac{1}{2}$	%
DESIGN MIX #	116		
DESIGN STRENGTH	11,751		
FIELD QC INSPECTOR	Ruby Stuckard	DATE	8-17-78
LAB QC INSPECTOR	Anthony J. G. Stram	DATE	9-14-78
QA SPECIALIST	Eugene Kelly	DATE	9-19-78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQ-13)

Page 9 of 9

PLANT NO. 2602

DATE 5-18-78

LOCATION

Unit Discharge

(Per Discharge)

WIND () CALM () OVERCAST () RAIN
() CLEAR () FOG () P. CLOUDY

AMBIENT TEMP. 70 °F
THERMOMETER NO. 1555

THICK NO.	TID SAMPLED	ELEVATION FEET	TICKET NO.	SLIP (in)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
											RESULTS			
											7 DAY	28 DAY	DAY	
21	5		25555	1 3/4	80	25526	5.6	25526	143.1	0	4740	620	6070	311 1583
21	5		25560	1 3/4	86		5.6			0				
22	5		25565	2 1/4	84		4.9		143.5	12	4670	6190	6000	312 1584
22	5		25571	3.0	86		6.4			0				
23	5		25576	3 1/2	84		4.9		140.6	10	3600	5410	5450	313 1585
24	5		25580	2.0	82		5.7			0				
25	5		25585	2 1/4	84		5.6		145.6	10	4490	6050	6300	314 1586
25	5		25590	2 1/2	84		5.7			0				
26	5		25595	2 3/4	82		5.2		143.0	0	4170	6050	5660	315 1587
30	2		25600	3 1/4	86		5.6			0				
22	5		25606	3 1/4	84		6.1		143.9	0	4100	5530	5660	316 1588
23	5		25610	4.0	82		6.4			0				

SLIP REQUIRED $\frac{1}{4}$ 1 in.

AIR REQUIRED $\frac{1}{2}$ 2 %

DESIGN MIX # 13

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Rickey Stuckland DATE 8-18-78

LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78

QA SPECIALIST Eugene Kelly DATE 9-19-78

1/1/78
REV. 1

FOR THE USE OF THE CONTRACTOR ONLY

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Page 5 of 9

CONCRETE TEST REPORT
(Procedure CoC-11)

PLACEMENT NO. 26602

DATE 8-18-78

LOCATION 26602 (PUMP DISCHARGE)

WEATHER: () OVERCAST () RAIN () OTHER
() FOG () P. CLOUDY

AMBIENT TEMP. 92 °F

THERMOMETER NO. 014507

THICK NO.	THICK SAMPLED	INDIVIDUAL THICK VARIANCE	TICKET NO.	SLOPE (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS				REMARKS
												RESULTS				
												7 DAY	DAY	DAY	DAY	
25	2 1/2	AM	15611	3 1/2	80	15611	6.6	114250	148.2	114250	0	3750	5270	5270		317 1589
24	1 1/2	AM	15610	3 3/4	80		4.4				0					
25	1 1/2	AM	15611	4.0	82		2.0		146.0	114250	0	4030	5410	5590		318 1590
23	1 1/2	AM	15610	3 3/4	84		6.6				0					
30	1 1/2	AM	15611	4.0	87		5.9		143.1	114250	0	3820	5660	5640		319 1591
26	1 1/2	AM	15606	2 1/2	86		4.2				0					
30	1 1/2	AM	15611	2 1/2	88		4.2		143.2	114250	0	4860	6240	6150		320 1592
24	1 1/2	AM	15612	2 1/4	80		4.2				0					
27	1 1/2	AM	15611	3.0	86		4.6		144.1	114250	0	3890	5660	5350		321 1593
29	1 1/2	AM	15610	3 1/2	80		7.4				0					
28	1 1/2	AM	15611	3 1/2	82		6.6		143.1	114250	0	3680	5380	5620		322 1594
30	1 1/2	AM	15611	3.0	84		6.0				0					

SUMP REQUIRED 1 in.

AIR REQUIRED 2 %

DESIGN MIX # 1

DESIGN STRENGTH 151

FIELD QC INSPECTOR Ricky Strickland DATE 8-18-78

LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78

QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION ONLY

COLUMBIA PORTLAND CEMENT CO. LIGHT CEMENT
 AND MORTAR BAGS HOLLOW PORTLAND CEMENT
 CONCRETE TEST REPORT
 (Provisional Copy)

PROJECT NO. 16502 DATE 8/1/28 () OTHER () P. CLOUDY
 LOCATION St. Louis, Mo. () OVERCAST () FOG
 AMBIENT TEMP. 84
 THERMOMETER NO. 1125

TEST NO.	TEMP. SAMPLED	CURED TIME	CURED DATE	CURED TIME	CURED TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. (BUCKET)	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
										7 DAY	28 DAY	DAY	
23	1 1/2		1625	3 1/4	84	1125	1125	142.8	0	3640	5450	5980	323 1595
22	1 1/2		1625	2 3/4	84	1125	1125	142.2	0	3930	5590	5840	324 1396
23	1 1/2		1625	3 1/4	84	1125	1125	142.2	0	3640	5530	5620	325 1597
22	1 1/2		1625	2 3/4	84	1125	1125	142.4	0	4040	6190	6150	320 1598
23	1 1/2		1625	2.0	84	1125	1125	139.9	0	4000	5800	5620	321 1599
26	1 1/2		1625	2 1/2	84	1125	1125	143.4	0	4530	6040	6400	324 1100
22	1 1/2		1625	2.0	84	1125	1125	10	10				

SLEEP REQUIRED 1 1/2 hr.
 AIR REQUIRED 1 1/2 hr.
 DESIGN MIX # 16502
 DESIGN STRENGTH 1650
 FIELD QC INSPECTOR Rickie Stuckland DATE 8-18-28
 LAB QC INSPECTOR Carthy Youngstrom DATE 9-14-28
 QA SPECIALIST Eugene Kelly DATE 9-19-28

FOR INFORMATION ONLY

CAROLINA PORT & LIGHT COMPANY
SAB MOORE BARTLETT INDUSTRIAL PAPER PLANT
CORROSION TEST REPORT
(F-1000-100-10)

1-01-2

TEST NO. 22222

DATE 1/19/78

TEST NO. 22222

TEST NO. 22222

TEST NO. 22222

TEST NO. 22222

TIME	TEMP. SAMPLED	TEMP. AMBIENT	SLUGS (in)	CONG. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. HUCKET	UNIT WT. HUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
										7 DAY	3 DAY	DAY	
27	8:00	157.35	1 1/2	84	M45026	5.4	M45028A	142.5		4006	5660	5770	329 537 37 1601
29	8:20	157.40	2 1/4	84	M45026	5.5	M45028A						
30	9:10	157.45	2 1/4	86	M45026	5.6	M45028A	141.2		4070	5778	5480	330 537 38 1602
30	7:20	157.50	3	84	M45026	5.5	M45028A						
33	9:20	157.55	3 1/4	86	M45026	5.4	M45028A	143.1		3710	5660	5498	331 537 39 1603
37	2:20	157.60	2 3/4	82	M45026	5.3	M45028A						
34	2:25	157.65	2 3/4	82	M45026	5.6	M45028A	143.2		4106	5380	5800	332 537 40 1604
35	4:50	157.70	2 1/4	82	M45026	5.4	M45028A						
33	11:15	157.75	3	84	M45026	5.5	M45028A	142.3		3758	5590	5620	333 537 41 1605
33	11:55	157.80	3 1/4	84	M45026	4.0	M45028A	143.2		3180	5020	4950	334 537 42 1606
32	12:00	157.85	2 3/4	84	M45026	5.6	M45028A						
38	12:20	157.90	3 1/2	80	M45026	5.4	M45028A						

SLUGS REQUIRED 1 1/2 in.

AIR REQUIRED 1 1/2

DESIGN MIX # M-56

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR

LAB QC INSPECTOR

QA SPECIALIST

Bruce Troop

ALWright

Engine Kelly

DATE 8/19/78

DATE 9-16-78

DATE 9-19-78

FOR INFORMATION OF CAROLINA POWER & LIGHT COMPANY AND FOR HARRIS INDUSTRIES PAPER PLANT CONCRETE TEST REPORT

Page 5 of 5

PROJECT NO. 155-22 DATE 8/17/78 () OVERCAST () RAIN () OTHER Cloudy
 LOCATION Blk. 1
 WT. TEST 10 () OVERCAST () RAIN () OTHER Cloudy
 () LOG () P. CLARITY

AMBIENT TEMP. 71 °F
 THERMOMETER NO. 25526

TIME NO.	TYPE SAMPLED	INDIVIDUAL TEST YARDAGE	FUEL NO.	SLIP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
												7 DAY	28 DAY	DAY	
26	3:50	10	15725	3 3/4	80	014508	5.2	014508	144.4	014508		3840	5326	5380	335 Set 43 1607
24	3:5	10	15820	3 3/4	84	014508	4.6	014508							
28	3:30	10	15805	2 3/4	82	014508	5.1	014508							
25	3:20	10	15810	2	80	014508	5.2	014508	144.4	014508		4300	5610	5550	334 Set 44 1608
30	3:10	10	15815	2	82	014508	4.2	014508							
28	3:05	10	15820	2 1/2	80	014508	5.0	014508	143.1	014508		4630	6020	5910	331 Set 45 1609
27	3:10	10	15825	3	80	014508	5.6	014508							
33	3:30	10	15830	3 3/4	84	014508	4.4	014508	145.9	014508		4550	5770	5770	333 Set 46 1610
25	3:45	10	15835	4 1/4	82	014508	4.4	014508							
29	4:10	10	15840	4 3/4	81	014508	5.0	014508	140.2	014508		4160	5020	5090	339 Set 47 1611

SLIP REQUIRED 1 1/2 in.
 AIR REQUIRED 1 1/2
 DESIGN MIX # 21-56
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Burt Stoppel DATE 8/19/78
 LAB QC INSPECTOR Bill Wright DATE 9-16-78
 QA SPECIALIST Eugene Kelly DATE 9-17-78

AMBIENT TEMP. 71 °F
THERMOMETER NO. 67526

SLIP REQUIRED	<u>2</u>	<u>1</u>	in.
AIR REQUIRED	<u>6</u>	<u>2</u>	%
DESIGN MIX #	<u>02-56</u>		
DESIGN STRENGTH	<u>4000 psi</u>		
FIELD QC INSPECTOR	<u>Sweet</u>		
DATE	<u>8/19/78</u>		
LAB QC INSPECTOR	<u>N.L. Wright</u>		
DATE	<u>9-16-78</u>		
QA SPECIALIST	<u>Eugene Kelly</u>		
DATE	<u>9-19-78</u>		

SHNPP

2

**CONCRETE
PLACEMENT
REPORT**

FILE

PLACEMENT NUMBER

1085216002

LOCATION (INCLUDE ELEV. F.N.B. 31)

U. 1 #1 CB. E. Int - Ext Side

SCHEDULED DATE

TYPE PLACEMENT

Struct. Mat

ESTIMATED QUANTITY

47.99 yds

TEMP. LIMIT

9.0 min to 1.4"

SECT. CLASS

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF		UNFORMED SURF	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SREED	<input checked="" type="checkbox"/>	FORMS ABOVE	<input checked="" type="checkbox"/>	WATER	<input checked="" type="checkbox"/>
BUCKET	<input checked="" type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input type="checkbox"/>
CONVEYOR	<input checked="" type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input checked="" type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>
TRUCK	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NUCLEAR	<input checked="" type="checkbox"/>
<p>* Outside exterior wall * Rubber Float</p> <p>Exposed Aggregate on Remainder</p>											

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

Hot weather

COMMENT & CLARIFICATION TO PROPOSED METHOD

** Outside Exterior wall only
(See action plan for this placement)

PRIMARY MASONRY DWG. NO.

2167-G-0610 R6

SPEC. FINISH

DES. STRENGTH

4000 psi

DESIGN MIX CODE

M516

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

By: Ken Fuller TITLE: Area Tech DATE: 7-20-78

**PRE-PLACEMENT
CHECKOUT**

CONSTRUCTOR

QUALITY CONTROL

QUALITY ASSURANCE

		REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE	INSPECTOR
1	CONTACT SURFACES	WP-5	JRL	J.E.E.	8/16	TGG				
2	FORMS	WP-22	JRL	J.E.E.	8/16	TGG				
3	REINFORCING STEEL	WP-11	J.C.	J.E.E.	8/16	TGG				
4	EMBEDS	VP-18	JRL	J.E.E.	8/16	TGG				
5	MECHANICAL	NA	JRL	NA	8-16	NA CSH	✓	NA	8/17	R. J. Barker
6	ELECTRICAL	NA	J.P.T.	NA	8-16	NA CSH				
7	CADWELDS	WP-1	JRL	NA	8-16	L.F.A.	✓	CH-15	8/17	P. Beane
8	N D E	WP-5	NA	NA	8/16	TGG				
9	CLEANUP	WP-5	JRL	J.E.E.	8/16	TGG				
10	WATERSTOP	WP-12	JRL	J.E.E.	8/16	TGG				
11										
12										
13										
14										

CONSTRUCTOR SIGNOFF (AREA SUPT)

Q.C. SIGNOFF

Q.A. SIGNOFF

DESIGN APPROVAL

TIME OF START

DATE PLACED

DATE: 8/17/78

DATE: 8/17/78

DATE: 8/17/78

DATE: 8/17/78

DATE: 8/17/78

DATE: 8/17/78

DATE: 8/17/78

YDS. CONCRETE
DELIVERED

47.92 YDS. NOT PLACED IN
THIS PLACEMENT

3.3 YARDS WASTED

YARDS GROUT

0.8 YDS. PLACED IN
THIS PLACEMENT

YARDS PLACED ELSEWHERE

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME

TITLE

DATE

REMARKS (ATTACH RELEVANT REPORTS)

#6 bars in Shear Key to be installed immediately prior to placement
** Cleanup to proceed from 1st floor

000561

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

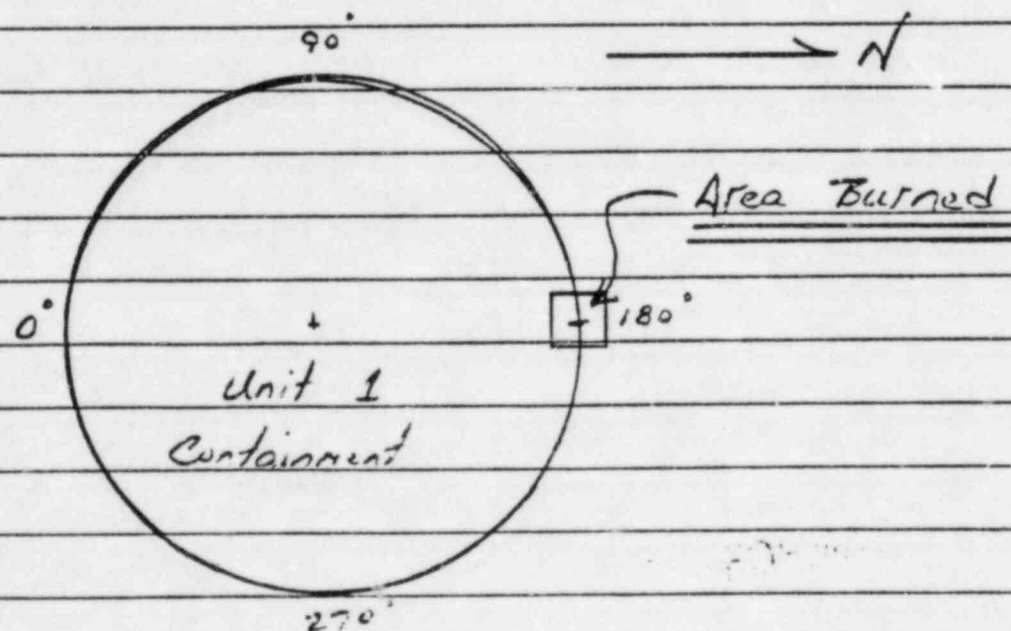
FIELD INSPECTION REPORT

Date 7/26/78 Spec No. WP-02
Location Unit No. 1 Inspector Randy G. Godwin
Elevation Containment Bldg. Shift Day
Placement No. 1CBSL216002 Weather Sunny, Mild

COMMENT

Accidental Burning of Waterproof Membrane

During a daily inspection of the waterproof membrane and waterstop on the Fuel Handling Building wall, the above inspector noticed an area of waterproof membrane burned by radweld operations. The Area Superintendent and General Foreman were notified of this problem and in turn we were informed that it would be corrected.



cc: Jim Nevill
Charles Nall
Ken Fuller
Jim Lathan

INSPECTOR Randy D. Godwin
Q A REVIEW Eugene Kelly 9/21/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1CB5L216003

Sheet 1 of 12

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Repair of Waterstop</u> ① Azimuth 270° ± ② Azimuth 320° ± Elevation 204 Waterstop burned during cadweld operation.	Areas are to be chipped out and waterstop replaced by patching. <u>Work Not completed</u> 7/19/78		-	Randy G. Godwin Individual Notified: Jim Lathan Date 7/19/78
2	<u>Waterstop</u> Butt Splices 325° ± 200° ± 340° ± 275° ±	<u>None</u> All splices made in accordance with WP-12.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J. C. Hyatt Date 7/21/78
3	<u>Waterstop</u> Alignment Inspection 270° - 320°	one area burned by cadwelding. Reported to Superintendent and corrected.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J. C. Hyatt Date 8/2/78
4	<u>Waterstop</u> 204 ELEV. Accidental burning by cadweld operations. 280° ±	Area corrected on 8/8/78.	on	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/8/78
5	<u>Waterstop</u> Entire Placement 270° - 303°	<u>None</u> All work performed in accordance with WP-02.	Final check completed 8/15/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 8/15/78

SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216005

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-C- 0610 0611 0612 0613 0614 0617

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Godwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under $\frac{1}{2}$ ". Discussed with Area Engineer decided to tolerate $\frac{1}{2}$ " or more. Future clearance to be $\frac{1}{2}$ inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Godwin
3	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) Recess Area	<u>None</u> All req'd. bars in place	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy G. Godwin
4	Elevation 204 ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 270° - 360°	<u>None</u> All req'd bars in place	Several violations noted and Foreman notified	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbro Date 6/15/78
5	Elevation 201' Shear Key - U Bars (303° - 270°)	<u>None</u> All req'd bars in place.	Bars not completely tied down. Awaiting circular and radial bar installation.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: JIM ELLIOTT Date 7/6/78

(2)

PLACEMENT * 1CBXW308001
M-80 5000 PSI

LAB NO.	AVG. 28-DAY STRENGTH	AVG. OF THREE CONSECUTIVE TEST
10639	5275	5647
10654	6795	6040
10664	4870	5632
10685	6455	
10699	5570	

EVALUATION IN ACCORDANCE WITH CAR-SH-CH-6

- ① THE 28-DAY AVERAGE STRENGTH TESTS ARE NOT MORE THAN 500 PSI BELOW THE DESIGN STRENGTH OF 5000 PSI.
- ② THE AVERAGE OF ALL GROUPS OF THREE CONSECUTIVE TESTS ARE ABOVE THE DESIGN STRENGTH OF 5000 PSI.
- ③ THE 28-DAY STRENGTH TEST IS NOT CONSIDERED A FAILURE.

Jim Calk 10-7-83

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 1 of 1

PLACEMENT NO. ICB XW 308001 DATE 8-29-83

MODE OF PLACEMENT

Pump Dis.

LOCATION Cent. Dldg

WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER _____
() HAZY () FOG () P. CLOUDY

[illegible]

SLUMP REQUIRED 0-8 MAX. in.

DESIGN MIX # USED M-80

FIELD
QA/QC INSPECTOR *[Signature]*

DATE 8-29-83

AIR REQUIRED 4-8 7.

DESIGN STRENGTH
FOR PLACEMENT

LAB QA/QC INSPECTOR Wendy A. Wells DATE 9-26-83

DATE 9-26-83

QA/QC SPECIALIST *Elena D. Hugg* DATE *10-4-21*

CONCRETE

CHNPP

FILE

CONCRETE
PLACEMENT
REPORT

PLACEMENT NUMBER **1CBSL216001**

LOCATION (INCLUDE ELEV. IF IN BLOC)

SCHEDULED DATE

UNIT 1 C.B. BASE MAT - WEST SIDE

7-14-78

TYPE PLACEMENT

ESTIMATED QUANTITY

TEMP

STRUCT. MAT

3020 YD³

90° AT

1-4"

1-4"

X

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF	UNFORMED SURF
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	HAND SCREED <input checked="" type="checkbox"/>	FORMS ALONE <input checked="" type="checkbox"/>	WATER <input type="checkbox"/>
BUCKET <input checked="" type="checkbox"/>	TREMIE <input checked="" type="checkbox"/>	FORM <input checked="" type="checkbox"/>	BULL FLOAT <input type="checkbox"/>	TARPS <input type="checkbox"/>	WET BURLAP <input type="checkbox"/>
CONVEYOR <input checked="" type="checkbox"/>	DROP <input type="checkbox"/>	<input type="checkbox"/>	TROWEL MACH. <input type="checkbox"/>	INSULATION <input type="checkbox"/>	VAPOR BARRIER <input checked="" type="checkbox"/>
PUMP <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BROOM <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	MEMBRANE <input checked="" type="checkbox"/>
TRUCK <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RUBBER FLOAT <input checked="" type="checkbox"/>	<input type="checkbox"/>	NUCLEAR <input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NON-NUCLEAR <input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

COMMENT & CLARIFICATION TO PROPOSED METHOD

HOT WEATHER

OUTSIDE EXTERIOR WALL ONLY

PRIMARY MASONRY DWG. NO.

SPEC. FINISH

CAR-2167-G-0610 R6

(SEE ACTION PLAN FOR THIS PLACEMENT)

DES. STRENGTH

DESIGN MIX CODE

M44

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY **Charles Hall**

TITLE **A.E.**

DATE **7/14/78**

PRE-PLACEMENT
CHECKOUT

CONSTRUCTOR

QUALITY CONTROL

QUALITY ASSURANCE

	REF. PROC	CRAFT SUPT	FIELD ENG	DATE	INSPECTOR	H	REF. PROC	DATE	INSPECTOR
1 CONTACT SURFACES	VP-5	JLW	J.E.E.	7/14/78	RG6		VP-5	7-15-78	JLW
2 FORMS	VP-12	JLW	J.E.E.	7/14/78	RG6		N/A	-	JLW
3 REINFORCING STEEL	VP-11	J.C.	J.E.E.	7/14/78	RG6		VP-11	7-15-78	JLW
4 EMBEDS	NA	NA	NA	7/14/78	RG6		N/A	-	-
5 MECHANICAL	N/A	JLW	NA	7/14/78	RG6 CSH		N/A	-	-
6 ELECTRICAL	NA	J.L.W.	NA	7/14/78	RG6 CSH		N/A	-	-
7 CADWELDS	VP-1	JLW	NA	7/14/78	RG6		VP-1	7-14-78	JLW
8 N D E	NA	NA	NA	7/14/78	RG6		N/A	-	-
9 CLEANUP	VP-5	JLW	NA	7/14/78	RG6		VP-5	7-15-78	JLW
10 WATERSTOP	VP-12	JLW	NA	7/14/78	RG6		VP-12	7-15-78	JLW
11									
12									
13									
14									

CONSTRUCTOR SIGNOFF (AREA SUPT)

QC SIGNOFF

Q.A. SIGNOFF

TEHAR

DATE **7-14-78**

RG6

DATE **7-14-78**

A.L. Wright

DATE **7-15-78**

DESIGN APPROVAL

TIME OF START

DATE PLACED

Ken

DATE **7-15-78**

07-18-78

YDS CONCRETE
DELIVERED

3070

YDS NOT PLACED IN
THIS PLACEMENT

76

YARDS WASTED

76

YARDS CROUT

05

YDS. PLACED IN
THIS PLACEMENT

2999

YARDS PLACED ELSEWHERE

00

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME **Randy D. Bales**

TITLE **Construction Inspector**

DATE **7/18/78**

REMARKS (ATTACH RELEVANT REPORTS)

*** DURING UNCLIMATE WEATHER**

Hold on cleanup until time of placement 7/15/78

Scheduled for Monday 7/17/78 7:00 AM

Cleanup to continue ahead of placement 7/14/78

SPK

0005100

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-KBSL216001

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

TP-21
Exhibit 1

Placement No. ICBSL 216001

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 65° to 115° Fuel Handling Wall Between Reglets and bond of membrane to waterstop.	Several Holidays Detected and patched in accordance with WP-02.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stanley Carter Date 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikastix Epoxy Cement	<u>None</u>	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: N/A Date 5/24/78
3	Waterstop Tie-in to existing Waterstop in Fuel Handling Bldg. Wall 0° and 180° (Top and Bottom)	<u>None</u>	<u>None</u> Butt-splice approved by FCR-180	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/11/78
4	Waterstop Fuel Handling Wall Top Layer (0° - 151° - 50')	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. <u>Not completed</u> 7/13/78	<u>Satisfactory</u> complete 7/14/78 3:30 PM	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (0° - 151° - 50')	<u>None</u> All work under Item 4 above completed in accordance with specifications.	<u>Final check</u> was made prior to concrete placement 6:00 AM 7/17/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date 7/17/78

SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

FOR INFORMATION ONLY

Placement No. ICBSL216001

Sheet 1 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-G-0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	VC INSPECTOR
1	Elevation 198 Ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place	Two bars checked out of tolerance, but checked out upon correction by field	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Gohwin
2	Elevation 198 Ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place	Clearance between Asbestos board and cadweld was under $\frac{1}{2}$ ". Discussed with Area Engineer decided to tolerate $\frac{1}{2}$ " or more. Future clearance to be $\frac{1}{2}$ inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Gohwin
3	Elevation 198 Ft. Bottom Reinf. North-South Bars	<u>None</u> All req'd. bars in place.	Five spacing violations were noted and corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/8/78 Date Randy G. Gohwin
4	Elevation 198 Ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) Access Area	<u>None</u> All req'd. bars in place	A final re-bar inspection was made and all violations corrected	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy G. Gohwin
5	Elevation 204 Ft. Bottom Mat Circular Bars Radial Bars Crest Joint between 90' and 30'-10' (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place	All violations corrected and checked out 6/14/78	<u>Satisfactory</u> SPK	Randy G. Gohwin Individual Notified: Frank Collins Date 6/14/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CBSL 216001Sheet 2 of 4Location Unit No 1 Containment BuildingDrawings CAR-2167-G-0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
	Elevation 20r Bottom Mat Circular Bars Radial Bars Const. Joint between 90° - 30° - 10' (Top Layer of) Lower Mat	<u>None</u> All req'd. bars in place.	All violations corrected and checked out 6/20/78	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/20/78
2	Elevation 201 SHEAR KEY U Bars Between 90° - 30° - 10'	<u>None</u> All req'd. bars in place.	Bars checked. Will have to be moved around several times to accommodate Wall Down installation. To be rechecked prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
3	Elevation 216 Top Mat Bottom Layer Radial Bars 90° - 30° - 10'	<u>None</u> All req'd. bars in place.	All bars met tolerance. By using plumb bob able to see several bars not plumb with bottom Mat. Informed Foreman and General Foreman.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
4	Elevation 216 Top Mat Upper Layer Circular and Radial Bars 90° - 30° - 10'	<u>None</u> All req'd. bars in place.	Several areas need to be plumbed and tied down. Foreman was informed and stated that this would be done prior to Wall Down installation.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbro Date 6/29/78
5	Elevation 204 SHEAR TRUSS BARS	Not Complete as of 7/5/78	—	Work in progress EPA	Randy G. Godwin Individual Notified: — Date 7/5/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

FOR INFORMATION ONLY

Placement No. 1CB5L216001

Sheet 3 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0612, 0613, 0614, 0615, 0616, 0617, 0618, 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	NO INSPECTOR
1	Elevation <u>216</u> Cylinder Wall Dowels - 1 st Row (90° - 30°-10°)	<u>None</u> All req'd. bars in place.	Numerous bars out of tolerance as far as spacing. Quality was unsatisfactory. Superintendent and General Foreman notified. Both agreed that tolerances would be met and quality re-established.		Randy G. Godwin Individual Notified: Frank Collins, J.M. Lathan Date 7/6/78
2	Elevation <u>216</u> Cylinder Wall Dowels - 2 nd Row, 3 rd Row, 5 th Row. (30°-10° - 151°-50°)	<u>None</u> Areas complete, no violations. Work not complete as of 7/11/78.	Several violations noted and reported to General Foreman	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/11/78
3	Elevation <u>204</u> Shear Truss Bars	Not complete as of 7/12/78	Several bars left out need to be corrected 7/12/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/12/78
4	Elevation <u>216</u> Cylinder Wall Dowels all Rows including Vertical and Horizontal Bars.	<u>None</u> All req'd. bars in place.	Several areas flagged for spacing violations. General Foreman was notified. Not corrected 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
5	Elevation <u>216</u> Shear Truss Bars 21 quantity bars and 6 bars in Key Way.	<u>None</u> All req'd bars in place. (Reference Item 3)	<u>None</u> All areas corrected 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CTBSL 216 001

Sheet 4 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

2.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 198</u> Reactor Vessel Recess Vertical Bars adjacent to Slope Wall	<u>None</u> All req'd bars in place.	Tolerances need to be met between bars and slope wall in several areas. Not completed 7/13/78 4:00 PM	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
2	<u>Elevation 216</u> Bottom Mat Top Mat Upper & Lower Layers Radial and Circular Bars <u>FINAL CHECK</u>	<u>None</u> All req'd bars in place.	Several bars had to be moved to accommodate concrete placement. Top To be corrected prior to tipping out of concrete.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
3	<u>Elevation 216</u> Shear Keys at Radius 44'-9" Steel - see Detail "Z" - Dwg. 2167-G-0613	<u>None</u> All bars in place in 7 Keys located in placement.	<u>None</u> All errors noted in work.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: N/A Date 7/13/78
4	<u>Elevation 216</u> Reinf. around Bulkhead at Reactor Vessel Recess. 3 #18 @ 12"	<u>None</u> All bars in place.	<u>None</u> Areas correctly installed.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: N/A Date 7/13/78
5	<u>Elevation 204 to 216</u> Final Visual inspection made on entire placement. (0° - 1515')	<u>None</u> All req'd bars in place. All work performed in accordance with WP-11.	<u>None</u> All areas which were flagged have been corrected. 6:00 AM 7/17/78	<u>Satisfactory</u> EPR	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

FOR INFORMATION ONLY

TP-21
Exhibit 1

Placement No. 1CB-L216 out

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 65' to 115' Fuel Handling Wall Between Relefs and bond of Membrane to waterstop.	Several Holidays Detected and patched in accordance with WP-02.	None	satisfactory	Randy G. Godwin Individual Notified: Stanley Carter Date: 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikafix Epoxy Cement	None	None	satisfactory	Randy G. Godwin Individual Notified: N/A Date: 5/24/78
3	Accidental Burning of Waterstop Location $\pm 100^\circ$ Const. Joint Area to be cut out and patched.	Not corrected as of PM 6/21/78. Area not as bad as anticipated. Corrected 7/6/78			Randy G. Godwin Individual Notified: Jim Lathan Date: 6/21/78
4	Waterstop Fuel Handling Wall Top Layer (90' - 151' - 50")	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. satisfactory Complete 7/14/78			Randy G. Godwin Individual Notified: J.C. Hyatt Date: 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (90' - 151' 50")	None All work under Item 4 above completed in accordance with specification	Final check was made prior to concrete placement. 6:00 AM 7/17/78	satisfactory	Randy G. Godwin Individual Notified: Jim Lathan Date: 7/17/78

SFK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. LCBSL 216004

Sheet 1 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0612 0615 0614 0615 0616 0617 0618 0619

7.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	INSPECTOR
1	Elevation 178 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by field.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy B. Godwin
2	Elevation 178 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2" min.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy B. Godwin
3	Elevation 178 ft. Bottom Trinf. North-South Bars East-West Bars (Reactor Vessel) Recess Area	<u>None</u> All req'd. bars in place.	A Final re-bar inspection was made and all violations corrected.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy B. Godwin
4	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint Between 15'-5" and 90" (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place.	Several violations noted and discussed with General Foreman	<u>satisfactory</u>	Stan Warmbr Foreman Individual Notified: 6/12/78 Date Randy B. Godwin
5	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint between 15'-5" and 90" (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place.	All violations corrected and checked out. 6/13/78	<u>satisfactory</u> SPK	Randy B. Godwin Individual Notified: Frank Collins Date 6/13/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. ICB5L216004Sheet 2 of 4Location Unit No. 1 Containment BuildingDrawings CAR-2167-G- 0612 0613 0614 0615 0616 0617 0618 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
	Elevation 204 Ft. Bottom Mat Upper layer of Lower Mat Circular Bars	Various Areas checked (None)	None No difficulty in placing bars directly over bars in lower layer.	Satisfactory	Randy G. Godwin Notified: Frank Collins Date 6/15/78
2	Elevation 204 No clearance between cadweld and concrete on lower mat. Location - 55' ±	—	Not corrected as of PM 6/21/78 corrected 6/23/78	—	Randy G. Godwin Individual Notified: Frank Collins Date 6/21/78
3	Elevation 216 Ft. Top Mat Radial Bars Bottom Layer Const. Joint Entire Placement	None All req'd. bars in place	All bars met tolerance. By using plumb bobs. Able to see several bars not plumb with bottom layer. Informed Foreman and General Foreman.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
4	Elevation 216 Ft. Top Mat Radial Bars Bottom Layer Entire Placement	None All req'd. bars in place.	Tails of bars not aligned with tails of other layer. Informed Foreman and corrected PM 6/23/78	Satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrock Date 6/23/78
5	Elevation 198 Ft. Bottom Reinforcing North-South Bars East-West Bars (Reactor Vessel Recess Area)	None All req'd. bars in place.	A final re-bar inspection was made and all violations corrected.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/6/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216004

Sheet 3 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-C-0612, 0613, 0614, 0615, 0616, 0617, 0618, 0619

7.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	INSPECTOR
1	Elevation 216 Top Mat Upper Layer Radial Bars Circular Bars (90° - 151° - 50')	<u>None</u> All req'd bars in place.	Several areas need to be plumped and tied down. Foreman was informed and stated that this would be done prior to wall dowel installation.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/6/78
2	Elevation 201 SHEAR KEY U Bars (90° - 151° - 50')	<u>None</u> All req'd bars in place.	Bars checked. Will have to be moved around several times to accommodate wall dowel installation. To be rechecked prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
3	Elevation 204 SHEAR TRUSS BARS	Not Complete as of 7/5/78	—	Work in progress	Randy G. Godwin Individual Notified: — Date 7/5/78
4	Elevation 216 Cylinder Wall Dowels - 1 st Row (90° - 151° - 50')	<u>None</u> All req'd bars in place.	Numerous bars out of tolerance as far as spacing. Quality was unsatisfactory. Superintendent and General Foreman notified. Both agreed that tolerances would be met and quality re-established.		Randy G. Godwin Individual Notified: Frank Collins, Jim Lathan Date 7/6/78
5	References Items Nos. 1, 2, 3 and 4 on sheet 4 of Placement No. 1CB5L216001. These items are are for Isometric Nos. 1CB5L216001, 004 and 005.				Randy G. Godwin Individual Notified: N/A Date 7/14/78 SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

FOR INFORMATION ONLY

Placement No. ICBSL 216 004

Sheet 4 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0612 0613 0614 0615 0616 0617 0618 & 0619

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 204 to 216</u> Final visual inspection made on entire placement. (0° - 151° 51')	<u>None</u> All req'd bars in place. All work performed in accordance with WP-11	<u>None</u> All areas which were flagged have been corrected. 6:00 AM 6/17/78	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78
2					Individual Notified: Date
3					Individual Notified: Date
4					Individual Notified: Date
					Individual Notified: Date

SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR WATERSTOP AND WATERPROOFING

Placement No. 1CB56 216005

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 0° to 65° Fuel Handling Wall Between Raglets and bond of Membrane to waterstop.	Several Holidays Detected and patched in accordance with WIP-02.	None	Satisfactory	Randy G. Godwin Individual Notified: Stanley Carter Date: 6/5/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikashix Epoxy Cement	None	None	Satisfactory	Randy G. Godwin Individual Notified: N/A Date: 5/24/78
3	Accidental Burning of Waterstop. Location ± 30°-10' const. Joint. Area to be cut out and patched.	Not corrected as of PM 6/21/78. Area not as bad as anticipated. Corrected 7/6/78 ✓			Randy G. Godwin Individual Notified: Jim Colkan Date: 6/21/78
4	Waterstop Fuel Handling Wall Top Layer (0° - 30°-10')	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. Satisfactory Complete 7/14/78			Randy G. Godwin Individual Notified: J. C. Hyatt Date: 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (0° - 30°-10')	None All work under Item 4 above completed in accordance with specification.	Final check was made prior to concrete placement. 6:00 AM 7/17/78	Satisfactory	Randy G. Godwin Individual Notified: Jim Colkan Date: 7/17/78

SKK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. LCBSL216005

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0612 0613 0614 0615 0616 0617 0618 0619

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	NO INSPECTOR
1	Elevation 199 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place	Two bars checked out of tolerance but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Godwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2" min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Godwin
3	Elevation 198 ft. Bottom Reinf. North-South Bars	<u>None</u> All req'd. bars in place.	Three violations were noted and corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/8/78 Date Randy G. Godwin
4	Elevation 204 Ft. Bottom Mat Circular Bars Radial Bars Const. Joint between 0° and 30° - 18' (Lower Layer of Lower Mat)	<u>None</u> All req'd. bars in place	All violations corrected and checked out 6/14/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins 6/14/78 Date
5	Elevation 204 Ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 340° - 0°	<u>None</u> All req'd. bars in place.	Several violations noted and Foreman notified.	<u>Satisfactory</u> SK	Randy G. Godwin Individual Notified: Stan Warmbrud 6/15/78 Date

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CB5L216005Sheet 2 of 3Location Unit No 1 Containment BuildingDrawings CAR-2167-G- 0612 0613 0614 0615 0616 0617 0618 7'0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
	<u>Elevation 204</u> No clearance between cadweld and concrete on lower mat. Location - 55' ±	—	Not corrected as of TM 6/21/78 Corrected 7/6/78	— by use of sh.m.	Randy G. Godwin Individual Notified: Frank Collins Date 6/21/78
2	<u>Elevation 198</u> Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) (Recess Area)	<u>None</u> All req'd. bars in place.	A final rebar inspection was made and all violations corrected.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/6/78
3	<u>Elevation 204</u> Bottom Mat Upper Layer Radial and Circular Bars (0° - 30° - 10')	<u>None</u> All req'd. bars in place.	Several areas to be plumbed and tied down. Foreman Notified.	satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrun Date 6/14/78
4	<u>Elevation 204</u> SHEAR TRUSS BARS	Not Complete as of 7/5/78.	—	Work in progress	Randy G. Godwin Individual Notified: — Date 7/5/78
5	<u>Elevation 201</u> SHEAR KEY U Bars Between 90° - 0° - 30° - 10'	<u>None</u> All req'd. bars in place.	Bars checked. Will have to be moved around several times to accommodate Wall Dowel installation. To be rechecked prior to concrete placement.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

FOR INFORMATION ONLY

Placement No. 1 CB5L216005

Location Unit No 1 Containment Building

Drawings CAR-2167-C-0612 0613 0614 0615 0616 0617 0618 0619

Sheet 3 of 3

1.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation <u>216</u> Top Mat Bottom Layer Radial Bars (0° - 30° - 10°)	<u>None</u> All req'd. bars in place.	All bars met tolerance. By using plumb bob able to see several bars not plumb with bottom Mat. Informed Foreman and General Foreman.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
2	Elevation <u>216</u> Top Mat Upper Layer Circular and Radial Bars (0° - 30° - 10°)	<u>None</u> All req'd. bars in place.	Several areas need to be plumbed and tied down. Foreman was informed and stated that this would be done prior to Wall Dowel installation.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrod Date 6/29/78
3	Elevation <u>216</u> Cylinder Wall Dowels - 1 st Row (0° - 30° - 10°)	<u>None</u> All req'd. bars in place.	One bar to be moved to clear waterstop in Bulkhead. Foreman notified.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrod Date 7/6/78
4	Reference Item Nos. 1, 2, 3 and 4 on Sheet 4 of Placement Report No. 1 CB5L216001. These Items are for Isometric Nos. 1CB5L216001, 004 and 005.				Randy G. Godwin Individual Notified: N/A Date 7/14/78
5	Elevation <u>204 to 216</u> Final visual inspection made on entire placement in accordance (0° - 151° 50')	<u>None</u> All req'd. bars in place. All work performed with WP-11.	<u>None</u> All areas which were flagged have been corrected. 6:00 AM 7/17/78	<u>satisfactory</u> EJK	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
POST PLACEMENT CHECKLIST

FOR INFORMATION ONLY
Exhibit 13
ONLY

PLACEMENT NO. 1CB5L 216001

LOCATION Unit No 1
Containment Building

CHECKLIST	REMARKS	INITIALS
Defects Repaired ✓	Satisfactory	RGG
Anchor Holes Grouted	N/A	RGG
<u>CURING</u>		
A. Water ✓	Satisfactory	RGG
B. Curing Compound ✓	Satisfactory	RGG
C. Ponding ✓	Satisfactory	RGG
D. Burlap		
E. Wet Sand		
F. Polyethlylene		
G. Temperature		
<u>FINISH</u>		
A. Steel Trowel ✓	Satisfactory	RGG
B. Wood Float ✓	Satisfactory	RGG
C. Broom		
D. Hair Brush		
E. Rubber Float		
Exposed Aggregate	Satisfactory	RGG

QC INSPECTOR Rand D. Blum DATE 7/25/78
PRINCIPAL SITE CIVIL ENGINEER [Signature] DATE 7/25/78

FOR INFORMATION ONLY

PLACEMENT NO. ICBShale 001

DATE 7-17-78

LOCATION #1 Containment Bldg.

(pump discharge) Test pt. 2

AMBIENT TEMP. 66 °F
THERMOMETER NO. m4448

WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER
() Hazy () Fog () P. CLOUDY

TRUCK NO.	TIME SAMPLED	RECEIVED THICK INCHES	FICKET NO.	SLUMP (IN)	CONC. TEMP. (OF)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	28 DAY	
24	11:05	10	12394	2	82	m4448	m4508A	147.8	m4508A		4990	6470	6150	Set 1 LAB 1206
23	11:35	10	12398	2 1/2	80			145.6	m4508A		4740	6080	5980	Set 3 1208
30	12:25	10	12408	3 1/2	87			148.4	m4508A		4850	6150	6260	Set 5 1210
29	1:10	10	12418	2 1/4	81									
27	1:35	10	12428	3 3/4	80									
25	2:20	10	12438	2 1/4	83									
24	3:00	10	12448	2 3/4	83			147.4	m4508A		5090	6440	6650	Set 6 1212
29	4:00	10	12458	3 1/4	82									
26	4:30	10	12468	3 1/4	84			146.6	m4508A		4530	6230	5980	Set 8 1214
24	5:10	10	12478	2 1/2	83									
23	5:45	10	12488	3	83			147.0	m4508A		4770	6440	6240	Set 10 1216
25	6:40	10	12498	3 1/2	82									

SLEW REQUIRED 4 ± 1 in.

AIR REQUIRED 6 ± 2 %

DESIGN HP m45 22.56 Gmw

DESIGN PSI 4000 psi

FIELD QC INSPECTOR Richy Stankard DATE 7-17-78

LAB QC INSPECTOR Steve Mendenhall DATE 8-14-78

QA SPECIALIST Cyril Kelly DATE 8-15-78

QA-26
12/72
Rev. 1

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 2 of 2

PLACEMENT NO. ICBSA 216001

DATE 7-17-78

FOR INFORMATION ONLY

LOCATION #1 Containment Bldg

(pump discharge) Test pt. 2

WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER
() HAZY () FOG () P. CLOUDY

AMBIENT TEMP. 82 °F

THERMOMETER NO. m4507

TRUCK NO.	TIME SAMPLED	TEST CYLINDER	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR TEMP. (°F)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7 DAY	28 DAY	90 DAY	1 YEAR	
30	7:45	AT	10	12508	3 1/2	83	m4448	4.4	m4508A	149.9	m4508A	4350	6230	5940		Set 12 1218
29	8:00	AT	10	12518	3 1/2	80		5.4								
25	8:40	AT	10	12529	6 1/2	80		5.2		147.8	m4508A	4240	6010	5720		Set 14 1220
24	9:10	AT	10	12538	4 1/2	80		5.0								
28	9:35	AT	10	12548	3	80		5.8		149.1	m4508A	4310	6260	6510		Set 16 1222
29	10:05	AT	10	12558	2	80		5.2								
26	10:45	AT	10	12568	1 3/4	80		5.0		148.1	m4508A	4950	6470	6190		Set 18 1224
29	11:15	AT	10	12578	4 1/2	82		4.9								
28	11:55	AT	10	12588	2 3/4	76		5.4		147.7	m4508A	4280	6050	5870		Set 20 1226
		AT														
		AT														
		AT														
		AT														

SLUMP REQUIRED 4 ¹/₄ 1 in.

FIELD QC INSPECTOR Bruce Howell

DATE 7/18/78

AIR REQUIRED 6 ¹/₂ 2 %

LAB QC INSPECTOR Arthur M. M. M.

DATE 8-14-78

DESIGN MIX # M-45-M-56 6mm 8-16-78

QA SPECIALIST Eugene Keeg

DATE 8-15-78

DESIGN STRENGTH 4000 psi

12/77
REV. 1

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT

PLACEMENT NO. 10BSH216001

LOCATION #1

Containment Bldg.

(pump discharge) Test pt 1

WEATHER: (X) CLEAR () OVERCAST () RAIN () Hazy () FOG () P. CLOUDY

DATE 7-17-78

FOR INFORMATION ONLY

AMBIENT TEMP. 73 °F

THERMOMETER NO. 04527

TIME NO.	TIME SAMPLED	TEMP. (°F)	SLUMP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (°F)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS	
										7 DAY 28 DAY 56 DAY				
										7 DAY	28 DAY	56 DAY		
25	10:45	10	3	80	MS507	5.6	MS507A		119					
30	11:15	10	1 1/2	80		5.1								
23	12:10	10	2	80		5.2		148.0	MS507A	4810	6260	5940	6080	Set 2 1207
27	1:00	10	3	80		5.1		148.6	MS507A	5130	6580	6260		Set 4 1209
23	1:35	10	4 3/4	83		7.6								
27	2:20	10	2 1/4	83		4.4		148.4	MS507A	4460	5910	6190		Set 5A 1211
22	3:00	10	2 3/4	82		4.5								
26	3:45	10	3	83		4.2		148.1	MS507A	4560	6540	6300		Set 7 1213
22	4:15	10	3	84		4.7								
24	5:00	10	3 1/4	86		4.5		148.5	MS507A	4770	6830	6540		Set 9 1215
22	5:35	10	2 1/4	96		4.5								
24	6:45	10	4	86		5.4		148.9	MS507A	4490	6050	5800		Set 11 1217

SLEEP REQUIRED 4 ± 1 in.

AIR REQUIRED 6 ± 2 %

DESIGN MIX # M-45 M-56 CMW 8-10-78

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR John Holland

LAB QC INSPECTOR Steve Mansueti

QA SPECIALIST Eugene Kelly

DATE 7-17-78

DATE 8-14-78

DATE 8-15-78

PLACEMENT NO. JCBSK216001

DATE 7-17-78 - 7-18-78

LOCATION #1 Containment Bldg

(pump discharges) Test pt. 1

AMBIENT TEMP. 80 °F
THERMOMETER NO. 024507

WEATHER: (✓) CLEAR () OVERCAST () RAIN
() BEST () FOG () P. CLOUDY

TEST NO.	TIME SAMPLED	ELEVATION TYPE VOLUME	BUCKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS				REMARKS	
												RESULTS					
												7 DAY	28 DAY	56 DAY	8 DAY		
26	7:00	10	12503	3 1/4	81	m4507	4.7	m4507A									Set 13 1219
26	8:05	10	12513	2 1/2	82		4.1		148.1	m4507A		4530	6190	5130			
24	8:30	10	12523	3 1/2	82		4.9										
27	8:50	10	12533	3 3/4	82		4.7		146.9	m4507A		4210	6400	6300			Set 15 1221
25	9:37	10	12543	3 1/4	80		4.6										
25	10:06	10	12553	2 1/2	80		4.3		149.0	m4507A		4560	6580	6300			Set 17 1223
28	10:20	10	12563	2 1/2	80		4.5										
28	11:22	10	12573	4	82		4.2		146.8	m4507A		4460	5780	5800			Set 19 1225
26	11:45	10	12583	5	82		4.8										
24	12:20	10	12593	4 1/4	80		5.2		150.0	m4507A		3470	5800	5410	5660		Set 21 1227
26	12:30	10	12598	4 1/4	80		5.0										
27	12:50	10	12603	3	80		5.2		150.0	m4507A		4210	5230	5520	5670		Set 22 1228

SUMP ELEVATED 4 1/2 in.

AIR ELEVATED 6 1/2 in.

DESIGN MIX # m452 M-56 6MA 8-8-78

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR

LAB QC INSPECTOR

QA SPECIALIST

DATE 7/18/78

DATE 8/15/78

DATE 8-17-78

Bruce Vogel

Alan Marshall

Cyrus Kelly

PLACEMENT NO. 1CBSA216001DATE 7-18-78

(Procedure CQC-13)

FOR INFORMATION ONLY

LOCATION # 1 Containment Bldg.

(pump discharge) Test pt. 1

WEATHER: (✓) CLEAR () OVERCAST () RAIN () FOG () P. CLOUDY () OTHER

AMBIENT TEMP. 71 °FTHERMOMETER NO. M4507

TIME NO.	TIME SAMPLED	ELEVATION FEET	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (°)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	1 DAY	
30	1:10	10	2 1/2	80	M4507	5.5	M4507A							
27	1:25	10	2 1/2	80		5.0		147.1	M4507A		4460	5940	5980	Set 23 1221
23	1:45	10	3 1/2	78		5.3								
29	2:10	10	2 3/4	80		5.0		147.7	M4507A		4770	5940	5520	Set 24 1230
24	2:20	10	3 1/4	80		5.1								
22	2:40	10	3 1/4	82		2.8		146.4	M4507A		4530	5800	6080	Set 25 1231
28	2:50	10	3 1/2	80		4.8								
30	3:10	10	3 1/4	80		4.5		147.9	M4507A		4390	6060	6470	Set 26 1232
29	3:30	10	2 1/2	80		4.7								
23	3:40	10	2 3/4	80		6.0		146.9	M4507A		4740	5550	5800	Set 27 1233
29	4:00	10	2 3/4	80		4.4								
26	4:20	10	2 1/2	80		4.4		147.1	M4507A		4460	5380	5380	Set 28 1234

SLUMP REQUIRED 4 ± 1 in.AIR REQUIRED 6 ± 2 %DESIGN MIX # M-45 M-56 6MWDESIGN STRENGTH 4000 psiFIELD QC INSPECTOR BuckleyDATE 7/18/78LAB QC INSPECTOR Steve MendenhallDATE 8/15/78QA SPECIALIST Cyrus KellyDATE 8-17-78

PLACEMENT NO. / CBSA 216.001

DATE 7-18-78

(Procedure: COX-13)

LOCATION

/ Containment Bldg.

(pump discharge) Test pt. 1

WEATHER: (✓) CLEAR () RAIN

() OVERCAST () RAIN
() FOG () P. CL

() OTHER

AMBIENT TEMP. 70 °F

THERMOMETER NO. 114507

[illegible]

SLUMP REQUIRED 4 ± 1 in.

FIELD QC INSPECTOR

1957-1958

Bruce Tobe

AIR REQUIRED

LAB QC INSPECTOR

1545

DATE 8/15/20

DESIGN MIX # 17-56 17-56 6mw 8-8-78

REFERENCES

QA SPECIALIST

1954K

DATE 8-15-88

QA-3
3/77
Rev. 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
QUALITY CONTROL FIELD REPORT

(2)

Subject

Concrete Repairs
KBSL 216002.

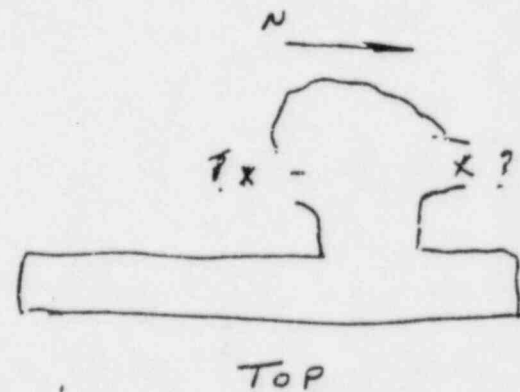
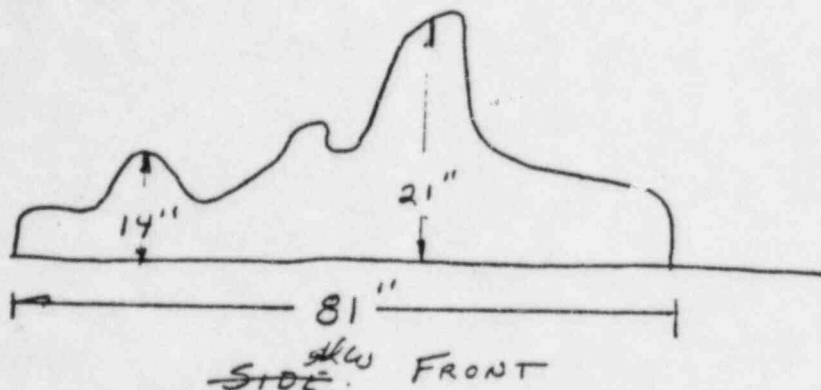
Date 9-13-78

Page 1 of 1

Report No. C-160

Inspection Details

The area on the east wall of containment bldg I. was found to have a large void in the concrete.



The extent of the void from (north to south) cannot be determined until chipping operations are completed.

Several rebar in the vicinity of the void were found to be very close to the previous formwork.

Chipping operations were started in this area today.

Q A RECORDS

RECEIVED
OCT 0 1978
RECEIVED

SHNPP CONSTR. Q A UNIT

OPERATION ONLY

000583

ICB-KBSL 216002

J. L. Wright

QC Inspector

9-13-78

Date

QA-3
3/77
Rev. 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
QUALITY CONTROL FIELD REPORT

Subject

Concrete Patchwork

Placen f # 1C.BSL 216002.

Date 9-25-78

Page 1 of 1

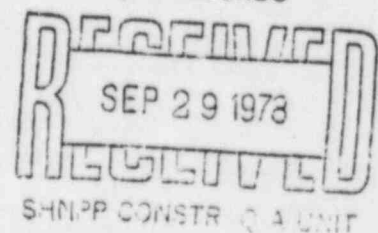
Report No. 132

Inspection Details

The area located above the center valve chamber vessel on the east side of containment bldg #1 was approved for patching after the area was satisfactorily chipped out to expose the honey-combed area.

NOTE: The area with the #18 rebar exposed was not approved. area = $\approx 5 \text{ ft}^2$

Q A RECORDS



FOR INFORMATION ONLY

H.L. Wright

QC Inspector

9-25-78
Date

EHK 9/25/78

1-CB-10450/6002



CONCRETE
PLACEMENT
REPORT

FILE *SK*

PLACEMENT NUMBER

ICBSL 216002-P

LOCATION: *North 1st*

10-2-78

TYPE PLACEMENT

Grout Patch

2cy

*50%
placed N/A*

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPICES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMS & WATER	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input type="checkbox"/>	FORMS ALONG	<input checked="" type="checkbox"/>
BUCKET	<input checked="" type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input checked="" type="checkbox"/>	<i>Strap</i>	<input checked="" type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>
PUMP	<input type="checkbox"/>		<input type="checkbox"/>			BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>
TRUCK	<input type="checkbox"/>					<i>N/A</i>	<input checked="" type="checkbox"/>		<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

N/A

COMMENT & CLARIFICATION TO PROPOSED METHOD

Spray with epoxy bonding agent before placing (R-Grout)

PRIMARY MASONRY DWG. NO.

2167-G-610

SPEC. FINISH

N/A

DES. STRENGTH

4000 PSI

DESIGN MIX CODE

*same as grout
under steel key pans*

NAME/TITLE, PERSON SUBMITTING REPORT

BY *Ken Fuller*

TITLE *Area Eng.*

DATE *10-2-78*

PRE-PLACEMENT
CHECKOUT

CONSTRUCTOR

QUALITY CONTROL

QUALITY ASSURANCE

	REF. PROC.	CRFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE
1 CONTACT SURFACES	WP-5	JRL	<i>10/2/78</i>					
2 FORMS	WP-22	JRL	<i>10/2/78</i>					
3 REINFORCING STEEL	NA	NA	NA					
4 EMBEDS	NA	NA	NA					
5 MECHANICAL	NA	NA	NA					
6 ELECTRICAL	NA	<i>10/2/78</i>	NA					
7 CADWELDS	NA	NA	NA					
8 N D E	NA	NA	NA					
9 CLEANUP	WP-5	JRL	NA					
10 Placement	WP-27	JRL	NA					
11								
12								
13								
14								

QIA RECORDS

RECEIVED
OCT 6 1978
SHNPP CONSTR. Q A UNIT

CONSTRUCTOR SIGNOFF (AREA SUPT)

Q.C. SIGNOFF

Q.A. SIGNOFF

J.L. Fuller

DATE *10-2-78*

SEE ABOVE

DATE

H.L. Wright

DATE *10-2-78*

DESIGN APPROVAL

N/A

TIME OF START

N/A

DATE PLACED

10-03-78

YDS CONCRETE
DELIVERED

YDS NOT PLACED IN
THIS PLACEMENT

YARDS PLACED

YARDS GROUT

YDS. PLACED IN
THIS PLACEMENT

YARDS PLACED ELIMINATED

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME

N/A

TITLE

N/A

DATE *N/A*

REMARKS (ATTACH RELEVANT REPORTS)

ICBSL 216002-P

ICBSL 204012

SK

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

QA-3
3/77
Rev. 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
QUALITY CONTROL FIELD REPORT

Subject: Patchwork Inspection

ICBSL 204012

Reference Placement No. ICBSL 216002

Date 10-4-78

Page 1 of 1

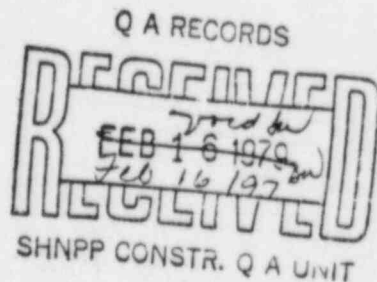
Report No. C-212

Inspection Details

The above area in the No. 1 Containment Bldg. above the northern most valve chamber was inspected before during and after placement of the grout patch.

The patching was in accordance with FCR # 292.

The remaining portion of the void will be patched using the replacement concrete method.



ICBSL 216002 JK
ICBSL 204012 JK
ICBSL 204012

H. L. Wright
QC Inspector

10-4-78

JK 2/16/79 Date

QA-3
3/77
Rev. 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
QUALITY CONTROL FIELD REPORT

Subject

Concrete Patchwork Inspection

1CBSL 216002

Date 10-6-78

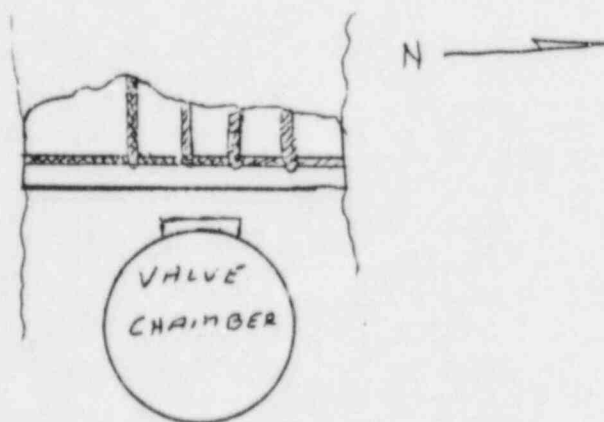
Page 1 of 1

Report No. 221

Inspection Details

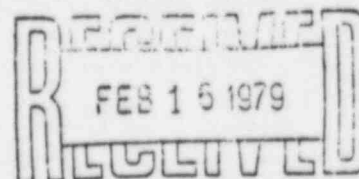
The area to be patched is in the above placement is located above the northern-most valve chamber in containment bldg No. 1.

The area to be patched was approved for patching using the "replacement concrete" method.



NOTE: This inspection is for the second portion of the patchwork. The first portion was accomplished using the "replacement mortar" method.

Q A RECORDS



SHNPP CONSTR. Q A UNIT

1-CR-1CBSL 216002

H.L. Wright
QC Inspector

10-6-78

JK 2/10/79 Date

CP&L

SHNPP

CONCRETE
PLACEMENT
REPORT

FILE

PLACEMENT NUMBER

1C85L216002

LOCATION (INCLUDE ELEV. IF IN BLDG.)

Northern Nat Value Chapter (Elev 204) Cont. #1

SCHEDULED DATE:

10-3-78

P

TYPE PLACEMENT
POURBACK
CONCRETE

ESTIMATED QUANTITY

1 yd

TEMP LIMIT

50° AS
placed

SLUMP LIMIT

4"

SEISMIC CLASS I

YES NO

YES NO

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING

PLACING

VIBRATION

FINISHING

FORMED SURF

CURING

UNFORMED SURF

BUGGY

☐

CHUTE

☐

INTERNAL

☒ HAND SCREED☐ FORMS ALONE☒ WATER

BUCKET

☒

TREMIE

☐

FORM

☐ BULL FLOAT☐ TARPS☐ WET BURLAP

CONVEYOR

☐

DROP

☒☐ TROWEL MACH.☐ INSULATION☐ VAPOR BARRIER

PUMP

☐☐

BROOM

☐ FORMS & WATER☐ MEMBRANE

TRUCK

☒☐

Form

☒☐ NUCLEAR

NON-NUCLEAR

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

No EOR

COMMENT & CLARIFICATION TO PROPOSED METHODS

Apply epoxy bonding compound prior to placing concrete

PRIMARY MASONRY DWG. NO.

2167-G-610

SPEC. FINISH

N/A

DES. STRENGTH

4000 psi

DESIGN MIX CODE

M56

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY Ken Fuller TITLE: Area Eng DATE: 10/3/78

PRE-PLACEMENT

CONSTRUCTOR

QUALITY CONTROL

QUALITY ASSURANCE

CHECKOUT

REF. PROC.

CRAFT

FIELD

DATE

INSPECTOR

H

REF. PROC.

DATE

INSPECTOR

1. CONTACT SURFACES

WP-5

JRL

NA

NA

SGG

NA

NA

NA

SGG

2. FORMS

WP-22

NA

NA

NA

Below

NA

NA

NA

Below

3. REINFORCING STEEL

NA

NA

NA

NA

NA

NA

NA

NA

NA

4. EMBEDS

NA

NA

NA

NA

NA

NA

NA

NA

NA

5. MECHANICAL

NA

NA

NA

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NA

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NA

6. ELECTRICAL

NA

NA

NA

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NA

NA

7. CADWELDS

NA

NA

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NA

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8. NDE

NA

NA

NA

NA

NA

NA

NA

NA

NA

9. CLEANUP

WP-5

NA

NA

NA

NA

NA

NA

NA

NA

10. PLACEMENT

WP-27

NA

NA

NA

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11.

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CONSTRUCTOR SIGN-OFF (AREA SUFF.)

NA

NA

NA

NA

NA

NA

NA

NA

DESIGN APPROVAL

NA

NA

NA

NA

NA

NA

NA

NA

NA

TIME OF START

NA

NA

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NA

NA

DATE PLACED

NA

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NA

YDS. CONCRETE

NA

NA

NA

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NA

DELIVERED

NA

NA

NA

NA

NA

NA

NA

NA

NA

YARDS GROUT

NA

NA

NA

NA

NA

NA

NA

NA

NA

ACCEPTANCE OF PLACEMENT METHODS BY COMPETENCY OF ABOVE INFORMATION

NAME

REMARKS (ATTACH RELEVANT REPORTS)

Reinforcement only

SK

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1C85L216002

Subject

Concrete Patchwork Inspection
1 CBSL 216002

Date 11-6-78

Page 1 of 1

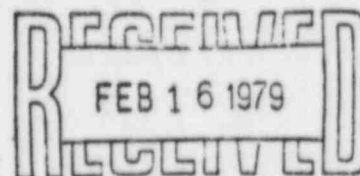
Report No. C-313

Inspection Details

The above area was patched in accordance with applicable specifications and FCR-288.

The patched area is located in Unit 1 Containment above the valve chamber in the northeast quadrant.

Q A RECORDS



SHNPP CONSTR. Q A UNIT

2/L Wright

QC Inspector

11-6-78
Date

1-CB-1 CBSL 216002

2/16/79

Type of Request:

☒ Permanent Waiver to "Use-as-is"☐ Field Change☐ See Recommended Action

REQ/PK 288

Identification of Area and Item:

☒ 0☐ Non-0Unit 1 Containment Rebar Minimum
Concrete Coverage Violation

Specifications/Documents:

CAR-2167-G-0561 Rev. 2

Conflict/Condition:

See attached sheet 2

Recommended Action:

☐ Please Investigate and Resolve☒ Please Resolve as follows

Use "as is"

DOCUMENT CONTROL

OCT 19 1978

Justification:

By Ebasco. THE PROPOSED CONCRETE
COVER MEETS THE REQUIREMENTS OF
SECTION CC-3534.1 FOR THIS REINFORCEMENT

Requested by:

H. O. Bridger, Jr. 1/25/78

Site Approval:

A. M. Lunn 9/26/78

Signature & Title

Date

Percent Engineer - Percent Date

Design Engineering Approval

(AE) (MSSE)

Telephone Resolution

☐ Yes ☐ No☒ Approved as Recommended☐ Rejected☐ Conditional ApprovalThis change requires the following Document(s) (Specification, Drawing, SAE,
etc.) to be changed

SHOW ON AS-BUILT DWG.

Comments:

Mario S. Verdellus, Jr. SE. ENG. 10/2/78

Signature

Title

Date

Michael J. Patis, PE 10/2/78

Signature

Title

Date

CP&L Engineering Pool Approval

Uncontrolled Copy

Telephone Resolution

☐ Yes ☐ No☒ Approved as Recommended☐ Rejected☐ Conditional Approval

FOR INFORMATION ONLY

J. R. Dwyer 10-6-78

Discipline Engineer

Date

J. G. Lunn 10-19-78

MIP or IPI

Date

Site Concurrence: Recommend

☒ Implementation☐ Alternate Resolution

A. M. Lunn 10-19-78

Percent Engineer - Percent Date

2158

FOR INFORMATION ONLY

Attachment to FCR-C-238

CAROLINA POINT AND LIGHT COAST GUARD
SHELDON WARRIS MACLEOD POINT LIGHT

FORMS CONTINUATION SHEET

12-1-1
12-1-1

Page 2

Conflict/Condition :

Upon raking the forms off the cl. 216' Containment 1 placement, two reinforcing bars were visible at the vertical concrete surface. These bars are :

- 1) A CA 49 #11 shear truss reinforcing
- 2) A C 64 #18 bar (the tail portion)

These bars were too close to the formed surface thus violating the $-1\frac{1}{2}$ " coverage tolerance.

After required chipping and patching operations around the affected areas are completed, there will be approximate 1" of concrete cover over the bars.

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD CHANGE REQUEST/PERMANENT WAIVER
CLOSE OUT*

*Note: This form is to be used to document implementation of FCR/PW's
written prior to revision 12 of Exhibit 1.

FCR/PW C-288

Implementation Completed as Approved?

Yes

No

Comments:

DOCUMENT CONTROL
RECEIVED
MAR 21 1979
RECEIVED
SHEARON HARRIS N. P. P.

Bill Sykes
Discipline Engineer

Final Distribution
(Original) File in Document Control
(Copy) Ebasco
(Copy) PPED
(Copy) Principal QA Specialist

FOR INFORMATION ONLY

1-CB-SL-216-002

APF-001
Rev. 10CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANTAP-IX-05
Exhibit 1

9/78

FIELD CHANGE REQUEST/PERMANENT WAIVER

Page 1 of 3

Type of Request:	<input type="checkbox"/> Permanent Waiver to "use-as-is" <input checked="" type="checkbox"/> Field Change		<input type="checkbox"/> See Recommended Action FCR/EN C-272
Identification of Area and Item:	<input checked="" type="checkbox"/> Q <input type="checkbox"/> Non-Q		<input checked="" type="checkbox"/> ASME Section III <input type="checkbox"/> Non-ASME Section III
Specifications/Documents:	CAR-SH-CH-06 DOCUMENT COVERED		
Conflict/Condition:	SAME AS FCR-C-278 (ATTACHED) OCT 17 1978 FOR INFORMATION ONLY		
Recommended Action:	<input type="checkbox"/> Please Investigate and Resolve <input checked="" type="checkbox"/> Please Resolve as Follows: SAME AS FCR-C-278 - HOWEVER, AN EPOXY BONDING COMPOUND SHALL BE USED AS A BONDING MEDIUM (SEE FCR-C-096 FOR APPROVED EPOXY)		
Justification:	By EBASCO THE RECOMMENDED REPAIR PROCEDURE IS SATISFACTORY TO INSURE PROPER BONDING IN ALL THE AFFECTED AREAS.		
Requested by:	Charles J. Wilson A.E. Discipline Engineer	9-27-78 Date	Site Approval: [Signature] Resident Engineer - Project
			9/27/78 Date
Design Engineering Approval (AE) (NSSS)	<input checked="" type="checkbox"/> Approved as Recommended <input type="checkbox"/> Rejected <input type="checkbox"/> Conditional Approval		Telephone Resolution <input type="checkbox"/> Yes <input type="checkbox"/> No
This change requires the following Document(s) (Specification, Drawing, SAR, etc.) to be changed <u>NONE</u>			
Comments:			
Mario S. Veribello sr. eng. 9/27/78 Signature Title Date		Michael J. Vetter Jr. 9/27/78 Signature Title Date	
CP&L Engineering Pool Approval	<input checked="" type="checkbox"/> Approved as Recommended <input type="checkbox"/> Rejected <input type="checkbox"/> Conditional Approval		Telephone Resolution <input type="checkbox"/> Yes <input type="checkbox"/> No
In accordance with Elasco Comments on FCR-C-272			
J. R. Ringgar 10-4-78 Discipline Engineer Date		J. G. Martin 10-5-78 MEP or PPF Date	
Site Concurrence:	<input type="checkbox"/> Recommend <input checked="" type="checkbox"/> Implementation <input type="checkbox"/> Alternate Resolution		
[Signature] N-16-78 Resident Engineer - Project			

APF-001

Rev. 9

2/78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANTAP-IX-05
Exhibit 1

FIELD CHANGE REQUEST/PERMANENT WAIVER

Page 1 of 3

Type of Request: ☐ Permanent Waiver to "use-as-is"
☒ Field Change ☐ See Recommended Action

FOR/IN C-271

Identification of Area and Item: ☒ Q ☐ Non-Q
UNIT 1 CONTAINMENT MAT - HONEYCOMB AREA

Specifications/Documents:
CAR-SH-CH-06

Conflict/Condition: A HONEYCOMB WAS FOUND IN THE UNIT 1 CONTAINMENT MAT AT ELEV. 204, DIRECTLY ABOVE THE NORTHERN MOST VALVE CHAMBER. ALL LOOSE CONCRETE WAS CHIPPED OUT AND THE RESULTING VOID AREA IS AS SHOWN ON THE ATTACHED SKETCH. CONFIGURATION OF THE VOID IS SUCH THAT REPAIR BY METHODS OUTLINED IN CH-6 WOULD BE DIFFICULT.

Recommended Action: ☐ Please Investigate and Resolve ☒ Please Resolve as Follows:
ALLOW THE CONSTRUCTOR TO PLACE A FORM AS SHOWN ON THE ATTACHED SKETCH AND POUR GROUT INTO THE INDICATED AREA. THE REMAINDER OF THE VOID AREA WOULD THEN BE FORMED AND FILLED WITH CONCRETE DESIGN MIX NO. M-56

Justification: THIS METHOD WOULD ASSURE THAT ALL THE VOID AREA WOULD BE FILLED.

Requested by:

Kenneth L. Fuller, P.E. 9-19-78
Signature & Title Date

Site Approval:

Charles J. L. Jr. 9/19/78
Resident Engineer - Project Date

Design Engineering Approval (AE) (N5SS)

Telephone Resolution

☐ Yes ☐ No

☐ Approved as Recommended ☐ Rejected ☐ Conditional Approval

This change requires the following Document(s) (Specification, Drawing, SAR, etc.) to be changed _____

Comments:

Signature	Title	Date	Signature	Title	Date
-----------	-------	------	-----------	-------	------

CP&L Engineering Pool Approval

Telephone Resolution

☐ Yes ☐ No☐ Approved as Recommended

Conditional Approval

RECEIVED
SEP 21 1978
SHEARON HARRIS N. P. P.

Discipline Engineer	Date	MEP or PPE	Date
---------------------	------	------------	------

Site Concurrence: Recommend

☐ Implementation☐ Alternate Resolution _____

OPTION ONLY

CONTAINMENT
SLOG WALL

INTERNAL
MAT

T/BASE SLAB MAT
EL. 216.00'

PROVIDE EMBEDDED IR
FOR EQUIP HANDLING
FACILITY (TYP OF 4)

PROVIDE EMBEDDED IR
OR HOOK - FOR LIFTING
HAMBER COVER & INSIDE
VALVE (TYP OF 4)

CUT OUT FOR ELEC BOX
(SECT C-C ONLY)

EL. 195.42'

VALVE
CHAMBER

PVC W.S.
CONT.

B/MAT
EL. 204.00

WORK SLAB &
POROUS CONC.

C.J.
PVC W.S.

C.J. - EL. 190.00'

PVC W.S. 3" ASBESTOS CEMENT
BOARD (TYP)

B/MAT
EL. 180.00'

WORK SLAB
& POROUS CONC. CHANNEL
REACTOR AUX. BLDG
FOR CONTINUATION
SEE DWG G-1150

SEE PLAN

DOCUMENT CONTROL

RECEIVED
SEP 21 1978
SHEARON HARRIS N. P. P.

B/MAT
EL. 180.00'

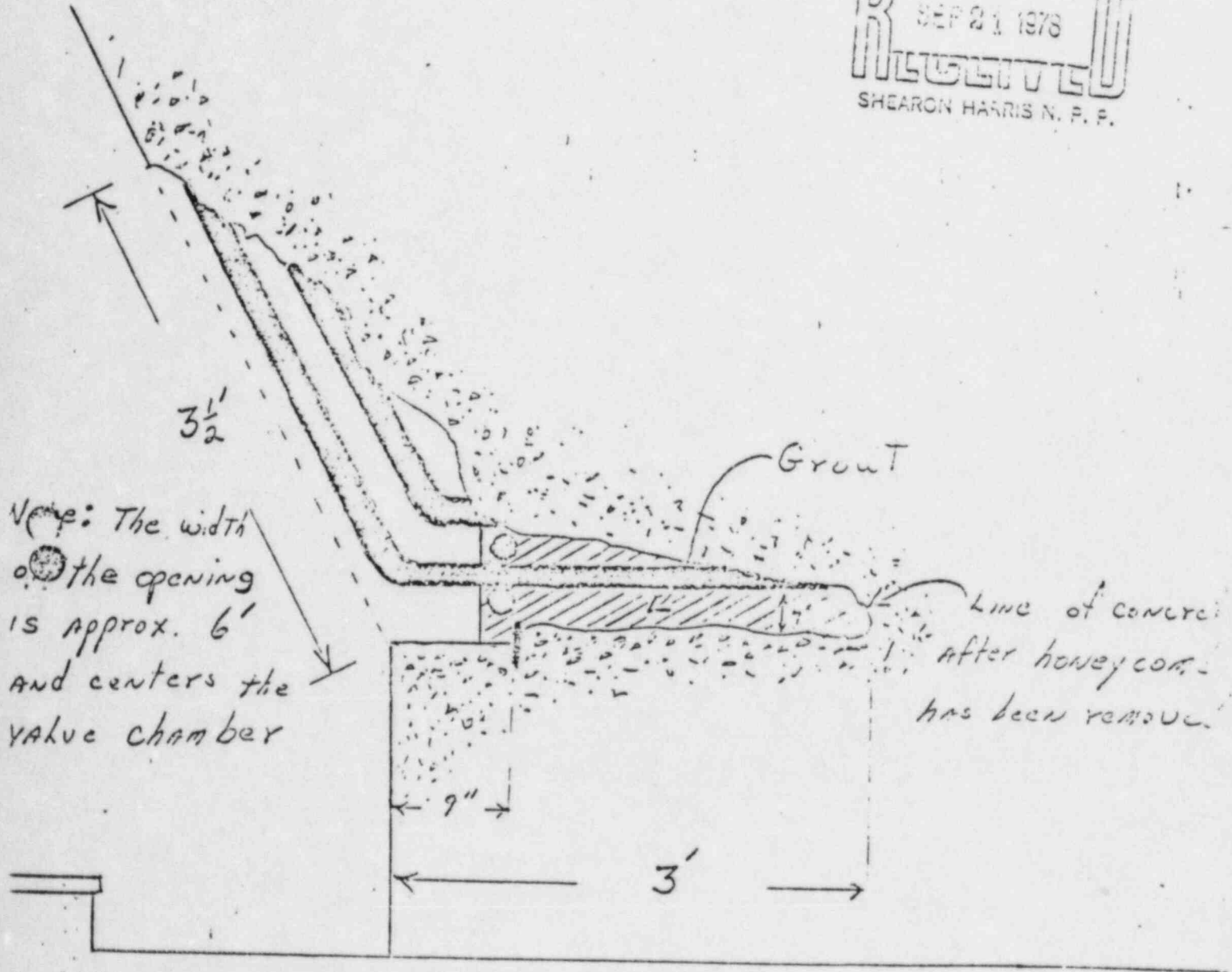
WORK SLAB &
POROUS CONC.
CHANNEL

SECT C-C (JG, L12) G-0610
SECT C-C (JG, L11) G-0610

DRAWING 2167-G-061

NOTE

DOCUMENT CONTROL
RECEIVED
SEP 21 1978
RECEIVED
SHEARON HARRIS N. P. P.



Value Chamber
(Northern most value chamber in unit #1)
 $\approx 218^\circ$

FOR INFORMATION ONLY

Drawing Not To Scale

Rev. 12
3/79

Exhibit 3
AP-LX-05

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD CHANGE REQUEST/PERMANENT WAIVER
CLOSE OUT*

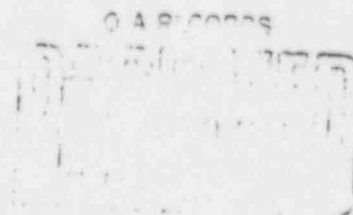
*Note: This form is to be used to document implementation of FCR/PW's
written prior to revision 12 of Exhibit 1.

FCR/~~1~~ C-292

Implementation Completed as Approved?

Yes
No

Comments:



Bill Ayler
Discipline Engineer

Final Distribution
(Original) File in Document Control
(Copy) Ebasco
(Copy) PPED
(Copy) Principal QA Specialist

DOCUMENT CONTROL
RECEIVED
MAR 27 1979
RECEIVED
SHEARON HARRIS N. P. P.

CP&L
SHNPP

000562

**CONCRETE
PLACEMENT
REPORT**

FILE

PLACEMENT NUMBER

1CBXW2119001

LOCATION (INCLUDE ELEV. IF IN BLDG.)

Unit #1 C.B. Exterior Wall Elev 28.5

SCHEDULED DATE:

12/2/78

TYPE PLACEMENT

Exterior Wall

ESTIMATED QUANTITY

230 yds

TEMP LIMIT

55^{AS} placed

SLUMP LIMIT

4"

SEISMIC CLASS I

YES NO

☒

PROPOSED PLACEMENT METHODS. (CHECK APPLICABLE SPACES)

TRANSPORTING

BUGGY

☐

BUCKET

☐

CONVEYOR

☐

PUMP

☒

TRUCK

☒

PLACING

CHUTE

☐

TREMIE

☐

DROP

☐

VIBRATION

INTERNAL

☐

FORM

☒

FINISHING

HAND SCREED

☒

BULL FLOAT

☐

TROWEL MACH.

☐

BROOM

Exposed Agg. ☒

* * Nucac 10 on Ext wall Face

FORMED SURF

FORMS ALONE

☐

TARPS

☐

INSULATION

☐

FORMS & WATER

☐

UNFORMED SURF

WATER

☒

WET BURLAP

☐

VAPOR BARRIER

☐

MEMBRANE

☐

NUCLEAR** ☒
NON-NUCLEAR ☐

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

COMMENT & CLARIFICATION TO PROPOSED METHODS

PRIMARY MASONRY DWG. NO.

2167-G-0610

SPEC. FINISH

Exposed Aggregate

At C.S. the concrete must be free of laitance & roughened with the aggregate is exposed for a depth of 1/2"

DES. STRENGTH

5000 psi

DESIGN MIX CODE

M172

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

By Ken Fuller TITLE Area Tech DATE 10-23

PRE-PLACEMENT
CHECKOUT

CONSTRUCTOR

QUALITY CONTROL

QUALITY ASSURANCE

		REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE	INSPECTOR
1	CONTACT SURFACES	WP-5	J.C.H.	J.E.	12/2	CH				
2	FORMS	WP-22	J.C.H.	J.E.	12/2	CH				
3	REINFORCING STEEL	WP-11	J.C.H.	J.E.	12/2	CH				
4	EMBEDS	NA	N/A	NA	12/2	CH				
5	MECHANICAL	NA	NA	NA	11/16	CH				
6	ELECTRICAL	NA	NA	NA	11/16	CH				
7	CADWELDS	WP-1	J.C.H.	NA	12/2	CH				
8	NDE	NA	NA	NA	12/2	CH				
9	CLEANUP	WP-5	JRL	NA	12/4	* CH				
10	Bond breaker	CON 552-112	JRL	NA	12/2	CH				
11										
12										
13										
14										

FOR INFORMATION ONLY

CONSTRUCTOR SIGNOFF (AREA SUPT)

Ken Fuller

DATE 12/2/78

QC SIGNOFF

12/2/78

QA SIGNOFF

12/2/78

DESIGN APPROVAL

Ken Fuller

TIME OF START

0930

DATE PLACED

12-06-78

YDS. CONCRETE

DELIVERED

0237

YDS. NOT PLACED IN

THIS PLACEMENT

14

YARDS WASTED

0.5

YARDS GROUT

02

YDS. PLACED IN

THIS PLACEMENT

0225

YARDS PLACED ELSEWHERE**

09

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME

Ken Fuller

TITLE Construction Inspector

DATE 12/2/78

REMARKS (ATTACH RELEVANT REPORTS)

Debiting to concrete just prior to the placement of concrete.

11 WAREHOUSE #3

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-1CBXW219001

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. LC6XW41901

LOCATION Unit #1 Cont. Bldg
El. 219

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat	CH
Rate of Placement	Sat	CH
Hot Weather Conditions	N/A	CH
Cold Weather Conditions	N/A	CH
Layer Thickness	Sat	CH
Use of Placing Equipment	Sat	CH
Consolidation	Sat	CH
Embedded Items	N/A	CH
Forms	Sat	CH

QC INSPECTOR

Richard A. Funch DATE 12/1/78

PRINCIPAL SITE CIVIL ENGINEER

DATE _____

ENCLOSURE
7-12

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CBXW219001

Sheet 1 of 1

Location Unit #1 Cont. Bldg. Exterior Wall

Drawings CAR-2167-G-

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Shear tie bars El. 216 to El. 219 Exterior wall	Approximately 200 bars missing	Numerous spacing violations due to missing shear tie bars	Sat.	C. J. [Signature] NOTIFIED J. Williams DATE Nov. 27, 1978
2	Ditto Iron #1 (100)	None	None	Sat	C. J. [Signature] NOTIFIED DATE Nov. 1, 1978
3					NOTIFIED DATE
4					NOTIFIED DATE
5					Indiv. [Signature] Notified DATE

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

Placement No. 1CBXW219001

Sheet 1 of 1

Location Unit #1 Cont. Bldg Exterior Wall from El. 216 to 218.5

Drawings CAR-2167-G- 0632 - 0633 - 0651

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	216 El to 218.5 El Horizontal rebar 0° to 360°	None	None	Sat	<div>CSF</div> <div>Individual Notified:</div> <div>—</div> <div>Date</div> <div>12/1/78</div>
2	216 El. to 218.5 El. Shear tie bars 0° to 360	Approx. 150 shear tie bars missing	None	Sat	<div>CSF</div> <div>Individual Notified:</div> <div>J. Latham</div> <div>Date</div> <div>12/1/78</div>
3	Item #2	None All of the shear tie bars in place	None	Sat	<div>CSF</div> <div>Individual Notified:</div> <div>—</div> <div>Date</div> <div>12/4/78</div>
4					<div>Individual Notified:</div> <div>—</div> <div>Date</div>
5					<div>Individual Notified:</div> <div>—</div> <div>Date</div>

CAROLINA POWER & LIGHT CO.-ANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-15
Exhibit 3

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXW 219001

LOCATION Unit #1 Containment
Bldg El. 219 Exterior Wall

CHECKLIST	REMARKS	INITIALS
Defects Repaired	N/A	CAF
Anchor Holes Grouted	N/A	CAF
<u>CURING</u>		
A. Water	Sat	CAF
E. Curing Compound	N/A	CAF
C. Ponding	N/A	CAF
D. Burlap	Sat	CAF
E. Wet Sand	N/A	CAF
F. Polyethylene	N/A	CAF
G. Temperature	Sat	CAF
<u>FINISH</u>		
A. Steel Trowel	N/A	CAF
B. Wood Float	N/A	CAF
C. Broom	N/A	CAF
D. Hair Brush	N/A	CAF
E. Rubber Float	N/A	CAF
F. Exposed Agg.	Sat	CAF

CONSTRUCTION INSPECTOR

PRINCIPAL SITE CIVIL ENGINEER

DATE 12/19/78

DATE 12-20/78

QA-24
11-01-78
Rev. 2

CAROLINA POW & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 1

PLACEMENT NO. 1C BX W219001 DATE 12-6-78
LOCATION #1 Containment Bldg. (pump discharge)
WEATHER: (☒) CLEAR () OVERCAST () RAIN () OTHER
() HAZY () FOG () P. CLOUDY

AMBIENT TEMP. 46 °F
THERMOMETER NO. 4553

TRUCK NO.	TIME SAMPLED	TRUCK YARDS	TICKET NO.	SLUMP (IN.)	TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	WATER ADDED	TEST CYLINDERS RESULTS				SET NO.	REMARKS
													DAY 3	DAY 4	DAY 28	DAY 28		
29	10:20 AM	5	23588	2 3/4	63	4553	46	4508A				+7						
29	11:00 AM	5	23589	1 1/2	65	4553	40	4508A				+9						
28	1:05 AM	8	23597	2 1/2	66	4553	56	4508A	141.9	4508A	04530	+6	3660	5060	7150	7220	1	2507 6 Field/curemate
28	2:05 AM	8	23603	3 1/2	68	4553	50	4508A										
30	3:00 AM	8	23608	4	68	4553	62	4508A	144.9	4508A	04530		3180	4780	6330	6470	2	2508
29	4:00 AM	8	23615	3	70	4553	54	4508A	141.4	4508A	04530		3640	5380	7000	7250	3	2509
	: AM																	
	: PM																	
	: AM																	
	: PM																	
	: AM																	
	: PM																	
	: AM																	
	: PM																	
	: AM																	
	: PM																	

SLUMP REQUIRED 4 ± 1 in. DESIGN MIX # M-72
AIR REQUIRED 4-8 % DESIGN STRENGTH 5000 psi

FIELD QC INSPECTOR Ricky Stuckel DATE 12-6-78
LAB QC INSPECTOR Chun Yang DATE 1-3-79
QA SPECIALIST Eugene Kelly DATE 1-4-79

CP&L
SHNPP

000564
FILE

**CONCRETE
PLACEMENT
REPORT**

PLACEMENT NUMBER 1K8XW256004

LOCATION (INCLUDE ELEV. IF IN BLDG.)
Cont. #1 EXT. WALL AT PER AIR LOCK

SCHEDULED DATE:
8/11/81

TYPE PLACEMENT EXT. WALL ESTIMATED QUANTITY 67 C.Y. TEMP LIMIT 50°-90° SLUMP LIMIT 8" MAX SEISMIC CLASS I ☒ YES NO

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF		UNFORMED SURF	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input checked="" type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input checked="" type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>	<u>P88E</u>	<input type="checkbox"/>	TROWEL MACH.	<input checked="" type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE:	
TRUCK	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<u>EXP AGG</u>	<input checked="" type="checkbox"/>	<u>NOTED #10, 1" Folds 20m=20</u>	<input type="checkbox"/>	NUCLEAR	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED WEATHER CONDITIONS: HOT PROTECTION CIRCONOON CURE (DAYS) 7

COMMENT & CLARIFICATION TO PROPOSED METHODS

PRIMARY MASONRY DWG. NO. 2167-G-0831 R-17 SPEC. FINISH EXP. AGG.

RATE OF RISE - 2' / HR

DES. STRENGTH 5.0KSI DESIGN MIX CODE M-80

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE
BY: David Ryz TITLE: Area Eng DATE: 8/4/81

PRE-PLACEMENT CHECKOUT		CONSTRUCTOR			CONST. INSPECTION		QUALITY ASSURANCE			
		REF PROC	CRAFT SUPT.	FIELD ENG	DATE	INSPECTOR	H	Q.C. SIGNOFF	DATE	Q.A. SIGNOFF
1	CONTACT SURFACES	WP-05	J. P. Hyatt	M. J. Moore	8-10	R. Breedlove	✓		8/10/81	M. J. Moore
2	FORMS	WP-22	J. C. Hyatt	M. J. Moore	8-10	R. Breedlove	✓		8/10/81	M. J. Moore
3	REINFORCING STEEL	WP-11	T. C. Hyatt	E. J. Moore	8/11	R. Breedlove	✓		8/10/81	M. J. Moore
4	EMBEDS	WP-11	J. C. Hyatt	M. J. Moore	8/11	R. Breedlove	✓		8/10/81	M. J. Moore
5	MECHANICAL	EMBEDS	WP-102	RECASTON	8/10	BE Bethune	✓			
		PIPE	WP-109	RECASTON	8/10	BE Bethune	✓		8-11-81	Andy Carter
6	ELECTRICAL	WP-201	RECASTON	M. J. Moore	8/10	Yrd Calhoun				
7	CADWELDS	WP-01	T. C. Hyatt	M. J. Moore	8/10	R. Breedlove	✓	Defective	8/1/81	
8	BOP WELDING				8/10	J. Ryz				
9	CODE/SEISMIC WELDING							WAB 5 hrs	8-11-81	
10	CLEAN-UP	WP-05	J. C. Hyatt	M. J. Moore	8/11	R. Breedlove	✓		8/11/81	B. B. B. B.
11										
12										

CONSTRUCTOR SIGNOFF (AREA SUPT) J. C. Hyatt 48-299 TIME: 7:15 DATE: 8-11-81 C.I. SIGNOFF Russell S. Breedlove TIME: 8:05AM DATE: 8-11-81

DESIGN APPROVAL David Ryz DATE: 8/4/81 TIME OF START 8:30 DATE PLACED 08-11-81

YDS. CONCRETE DELIVERED	<u>67</u>	YDS. NOT PLACED IN THIS PLACEMENT	<u>0.5</u>	YARDS WASTED	<u>0.5</u>
YARDS GROUT	<u>11</u>	YDS. PLACED IN THIS PLACEMENT	<u>166.5</u>	YARDS PLACED ELSEWHERE	<u>10</u>

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: Russell S. Breedlove TITLE: C.I. DATE: 8-11-81
REMARKS (ATTACH RELEVANT REPORTS)
* Some rebar shifted for access - flagged; Replaced @ completion RLB 8-11-81
1-KR 1K8XW256004

PRE-CHECKOUT DATA BY PLACING ORGANIZATION
PRE-PLACEMENT CHECKOUT
POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW256004

LOCATION Cont. #1 Ext. Wall

Az. 315° to 16°, el. 251' to 256'

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat.	RLB
Rate of Rise	Sat.	RLB
Hot Weather Conditions	Sat.	RLB
Cold Weather Conditions	N/A	RLB
Layer Thickness	Sat.	RLB
Use of Placing Equipment	Sat.	RLB
Consolidation	Sat. *	RLB
Embedded Items	Sat.	RLB
Forms	Sat.	RLB
Cleanup Maintained	Sat.	RLB
Mixing To Placing Intervals	Sat.	RLB
Shifted/Removed Rebar Replaced	Sat.	RLB
COMMENTS * Workers warned about vibration techniques; both		
under- and over-vibration. A most difficult placement.		

CONSTRUCTION INSPECTOR

Russell L. Buzellone

DATE 8-11-81

CONSTRUCTION INSPECTION SUPERVISOR

M.D. Sealsy

DATE 8-11-81

FOR INFORMATION ONLY

Rev. 4/80
9/80

Exhibit 1A
Sheet 33 of 44
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CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL-
REQUIRED DRAWINGS

Placement Number 1 CBXW256004

Coordinates A2. 315° to 16°

Elevation 251.0' to 256.0'

C.I. Review Russell F. Breckelme

Area Engineer Review Jim Ry

Drawings Required/Revision:

Affecting Documents *

✓ Masonry ✓ CAR-2167-G-0630(R7)

✓ FCR-C-716 (Tolerance on Shell Liner)

✓ -0631(R7)

✓ FCR-C-2324 (Excess clearance in blister area)

✓ FCR-C-2556 (Interference CC 906/5-57 stud)

✓ FCR-C-2557 (No clearance on cadwelds @ 16°)

✓ Reinforcing CAR-2167-G-0618(R6)

✓ FCR-C-2558 (Change C.J. @ A2. 315°)

✓ -0619(R6)

✓ PW-C-2089 (8th Row As-Built)

✓ -0636(R4)

✓ PW-C-2333 (Form and Probe Vibrators)

✓ -0637(R4)

✓ PW-C-1370 (Omitted 8th Row Dowels)

✓ -0764(R3)

✓ PW-C-2495 (Radial Bars mislabeled)

✓ -0767(R2)

✓ PW-AS-685 (Bent Studs on penetrations)

✓ -0632(R3)

✓ PW-AS-736 (Bent Studs on penetrations)

✓ -0633(R3)

✓ DCN-550-805 ('Endos' 8th Row)

(cont.)

✓ RCI-C-625 (Add'l Temperature Steel)

✓ Embeds CAR-2167-G-0631(R7)

✓ RCI-C-465 (Form Coatings)

✓ RCI-C-498 (ACI concrete cover minimums)

✓ RCI-C-535 (Acceptable 'Endo' lengths)

✓ RCI-C-589 (Conflicts between prints)

✓ Penetrations CAR-2167-G-0630(R7)

✓ RCI-C-598 (Conflicts between prints)

✓ -0631(R7)

✓ RCI-C-599 (Liner plate tolerance clarification)

(cont.)

✓ RCI-C-555 (Shear Bolt Assemblies)

✓ Dowels ✓ CAR-2167-G-0618(R6)

✓ RCI-C-600 (Design Drawings Clarification)

✓ -0619(R6)

✓ Bar Bending CAR-2167-B-9005-5,4,7,8,9,3

* This placement has been checked with the computer printout and documents. Correct as of 8-8-81

Other

Russell F. Breckelme

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL-
REQUIRED DRAWINGSPlacement Number 1CBXW236004Coordinates A2. 315° to 16°Elevation 251.0' to 256.0'C.I. Review R. Brudlow

Area Engineer Review _____

Drawings Required/Revision:

Affecting Documents

012 8-8-81
Reinforcing

CAR-2167-G-0638 (R3) ✓

-0639 (R3) ✓

-0641 (R4) ✓

-0650 (R4) ✓

-0651 (R4) ✓

-0652 (R0) ✓

-0770 (R1) ✓

-0634 (R3) ✓

-0635 (R3) ✓

-0761 (R4) ✓

Bethlehem Steel Corporation Prints (Reinforcing)

✓ 8099-10 (R1) ✓

✓ -7 (R2) ✓

✓ -12 (R6) ✓

✓ -3 (R2) ✓

✓ -8 (R4) ✓

✓ -4 (R1) ✓

✓ -13 (R2) ✓

✓ -24 (R3) ✓

✓ -25 (R4) ✓

✓ -26 (R3) ✓

✓ -32 (R3) ✓

✓ -29 (R2) ✓

✓ -33 (R3) ✓

✓ -22 (R4) ✓

✓ -23 (R3) ✓

✓ -23A (R1) ✓

013 8-8-81
Embeds

✓ CAR-2168-G-601 (R4)

✓ -0229 (R14)

✓ -0230 (R16)

✓ -0231 (R18)

✓ -253501 (R3)

✓ -253502 (R4)

✓ -253503 (R3)

✓ -253504 (R3)

✓ -253508 (R2)

Penetrations

013 8-8-81
Dowels

Bar Bending

Other

MODE OF PLACEMENT Leaf

DATE 8-11-81

PLACEMENT NO. 1CR4W256DD4

LOCATION Confinement Bldg #11

WEATHER:	() CLEAR	() OVERCAST	() RAIN	() OTHER
	() B.77	() FOG	() P. CLOUDY	

[illegible]

FIELD QA/QC	INSPECTOR <u>Norm Tulasz</u>	DATE <u>8-11-81</u>
LAB QA/QC	INSPECTOR <u>John Cook</u>	DATE <u>9-8-81</u>
QA/QC SPECIALIST	<u> Eugene Kelly</u>	DATE <u>9-9-81</u>

SLUMP REQUIRED 0-2 MPa in.
AIR REQUIRED - 4-8 %
DESIGN MIX # USED M-20
DESIGN STRENGTH 5000 PSI
FOR PLACEMENT

Rev. 7
4/81

TP-15
Exhibit 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXWJ284004

LOCATION Cont. #1 Ext. Wall

PLACED 8/11/81

A2. 315' to 46', el. 281' to 256'

END OF CURE 8/18/81

CURE/PROTECTION REQUIREMENTS Extended

CHECKLIST	REMARKS	INITIALS
Form & SHORING REMOVAL	Forms removed 8-25-81	RLB
CONCRETE REPAIRS REQUIRED	Cosmetic Only	RLB
<u>CURING/PROTECTION</u>		
A. Water	Sat.	RLB
B. Curing Compound	Sat. - Kurez confirmed 8-13-81	RLB
C. Ponding	N/A	RLB
D. Burlap	N/A	RLB
E. Wet Sand	N/A	RLB
F. Polyethylene	N/A	RLB
G. Temperature	Sat - 7 days > 50°F	RLB
<u>EXTENSIONS (DR's, Speed Letters, Poor Practice Condition Reports)</u>		
A. Cure	N/A	RLB
B. Protection	N/A	RLB
<u>FINISH</u>		
A. Steel Trowel	N/A	RLB
B. Wood Float	N/A	RLB
C. Broom	N/A	RLB
D. Hair Brush	N/A	RLB
E. Rubber Float	N/A	RLB
F. Roughened Surface	Sat	RLB

CONSTRUCTION INSPECTOR Russell J. Bredlow
CONSTRUCTION INSPECTION SUPERVISOR M.D. Sealey

DATE 8-25-81
DATE 8-25-81