

2

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.

8406290358 840626
PDR ADOCK 05000400
PDR
G

DS03

The third enclosure is also from ICBSL216002 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 ICBSL216-002 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. ICBSL216001,-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 ICBSL 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

*FLPN
CMLL*
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 Waycross
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. W. Eddleman

CONCRETE PLACEMENT REPORT

CPA SHNPP

2

FILE

PLACEMENT NUMBER 1CBXW2901011

LOCATION (INCLUDE ELEV IF IN BLDG.) CONTAINMENT #1 51 290 SCHEDULED DATE: 7/23/82

TYPE PLACEMENT ESTIMATED QUANTITY CAT. W/LL 35 cu. y. TEMP. LIMIT 50-90 F. CURING CLASS I YES NO

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES) TRANSPORTING PLACING VIBRATION FINISHING FORMED SURE UNFORMED SURE

BUGGY BUCKET CONVEYOR PUMP TRUCK CHUTE TREMIE DROP BT SERVICE COND. MILD - PROTECTION EXTENDED CURE (DAYS) 7

ANTICIPATED WEATHER CONDITIONS: HOT COMMENT & CLARIFICATION TO PROPOSED METHODS EXT. WALL FROM A220 TO 300' CEL

PRIMARY MASONRY DWG. NO. 2167-G-0631 R-7 RATE OF RISE 2 1/4" HR

DES. STRENGTH 5.0K12 DESIGN MIX CODE M-1721 NAME, TITLE, PERSON SUBMITTING ALL THE ABOVE BY: Dave J. Ryan TITLE: A.E. DATE: 7/16/82

Table with 4 main columns: PRE-PLACEMENT CHECKOUT, CONSTRUCTOR, CONST. INSPECTION, QUALITY ASSURANCE. Rows include CONTACT SURFACES, FORMS, REINFORCING STEEL, EMBEDS, MECHANICAL, ELECTRICAL, CADWELDS, BOP WELDING, CODE/SEISMIC WELDING, CLEAN-UP.

CONSTRUCTOR SIGNOFF (AREA SUPT) R. L. Searns TIME: DATE: 7-23-82 C.I. SIGNOFF Russell S. Breedlove TIME: 10:00AM DATE: 7-23-82

DESIGN APPROVAL DATE: 7/23/82 TIME OF START 10:30 DATE PLACED 07-23-82

YDS. CONCRETE DELIVERED 1413 YDS PLACED IN THIS PLACEMENT 42 YARDS WASTED CONCRETE 02 GROUT 02

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION NAME: Russell S. Breedlove TITLE: 7-23-82 C.I. DATE: 7-23-82

REMARKS (ATTACH RELEVANT REPORTS) * Rebaring omitted for access - 6 #18's 240 to 300' - Replaced & set R23 7-26-82

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

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.

R7

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.

*Ebasco S.H.
Concrete
Specification
PP 21-22*

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

Rev. 9
7/82

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

Exhibit 2
TP-15

PLACEMENT NO. 108xW290001 LOCATION Cont. #1 Ext. W311
 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 / 7 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>		
	EXTENSIONS	REMARKS
A. Water	<input checked="" type="checkbox"/> N/A	Sat - 7 days moist cure
B. Curing Compound	N/A	N/A
C. Ponding	N/A	N/A
D. Burlap	N/A	N/A
E. Wet Sand	N/A	N/A
F. Polyethylene	N/A	N/A
G. Temperature	<input checked="" type="checkbox"/> N/A	Sat - 7 days $\geq 50^{\circ}\text{F}$

COMMENTS:

CONSTRUCTION INSPECTOR Russell J. Buedelove DATE 8-16-82

CONSTRUCTION INSPECTION SUPERVISOR Robert L. Taylor DATE 8-21-82

PLACEMENT NO. 1C BX W 29000 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 METER NO.	UNIT WT.	UNIT BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
										DAY	RESULTS	DAY	RESULTS			
8765	12:45 AM	8	4	86	CP-2 4765B	5-8 4854	CP-2 4854	CP-2 4854	CP-2 D1258	3470	* 0	* 28	* 4950	1	9266	NC-2 # C 505 13567

SLIMP REQUIRED 0-4 MAX in. DESIGN MIX # USED M-72 FIELD QA/QC INSPECTOR Ruby Stubbend DATE 7-23-82
 AIR REQUIRED 4-8 z DESIGN STRENGTH FOR PLACEMENT 5000 PSI LAB QA/QC INSPECTOR James C. C. C. DATE 8-23-82
 QA/QC SPECIALIST Eugene Kelly DATE 8-24-82

~~APN~~ - C - 3769

Type of Request:

- Permanent Waiver to "use-as-is"
- Field Change
- See Recommended Action

ORIGINAL

- Non-ASME
- ASME Section III Division 1
- ASME Section III Division 2
- Q Non-Q

Nonconformance No Yes Report No. NCR-C-508

Identification of Area and Item: Low Concrete Compression Cylinder Breaker for placement 1CBxW 290 001

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 1985

SHEARON HARRIS N.P.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 Meyle for INFT
Senior Resident Engineer

12/1/82
Date

R/PW - C - 3769

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
-----------	-------	------	-----------	-------	------

<i>Robert D. [Signature]</i>	Discipline Engineer	9/16/83	<i>[Signature]</i>	CP&L Harris Plant Engineering Approval	9/16/83
------------------------------	---------------------	---------	--------------------	--	---------

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.

<i>Robert D. [Signature]</i>	Discipline Engineer	9/16/83	<i>[Signature]</i>	MHPE or PPE	9/16/83
------------------------------	---------------------	---------	--------------------	-------------	---------

Site Concurrence: Recommend Implementation

Alternate Resolution Rejected

N/A Per AP IX-05 Rev 28
Senior Resident Engineer Date

Distribution:

(Original) Document Control	(Copy)
(Copy) <i>W.O. Fridson</i>	(Copy)
(Copy) <i>S.R. Holmes</i>	(Copy)

Implementation Completed as Approved? Yes No

Comments: _____

<i>James R. Paul</i>	Discipline Engineer	9/21/83
----------------------	---------------------	---------

Final Distribution:

(Original) File in Doc. Control	(Copy)
(Copy)	(Copy)
(Copy)	(Copy)

PLACEMENT NO. ICBXW29000X 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	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (1)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	SCALE NO.	TEST CYLINDERS RESULTS			SET NO.	LAB #	REMARKS
											DAY	DAY	DAY			
8705	12:45 AM	8	4	86	CPR 4765B	5.8	CPR 4854	CPSL 4854	140.1	CANL 4854	3/170	25	28	1	9265	N.C.C.# C-11 ISSUED

STAMP REQUIRED 0-4 MAX in. DESIGN MIX # USED M-72 FIELD QA/QC INSPECTOR Ricky Stuebel DATE 8-2-82
AIR REQUIRED 14-6 7. DESIGN STRENGTH 5000 PSI LAB QA/QC INSPECTOR Angie Carter DATE 8-3-82
QA/QC SPECIALIST Edward Kelly 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 CALL 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	10,900	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	9,600	1.74	6.50	2.38	3.7	4030	-	-

REMARKS _____

LAB INSPECTOR

Wendy J. Wooten

DATE 8-8-83

QA SPECIALIST

Donald Sugg

DATE 8-8-83

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Date Placed _____

Placement No. ICBXW290001

TEST RESULTS

Compression Machine CR/LM-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. Wotter DATE 8-23-83
QA SPECIALIST Albert P. L. DATE 8-25-83

2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

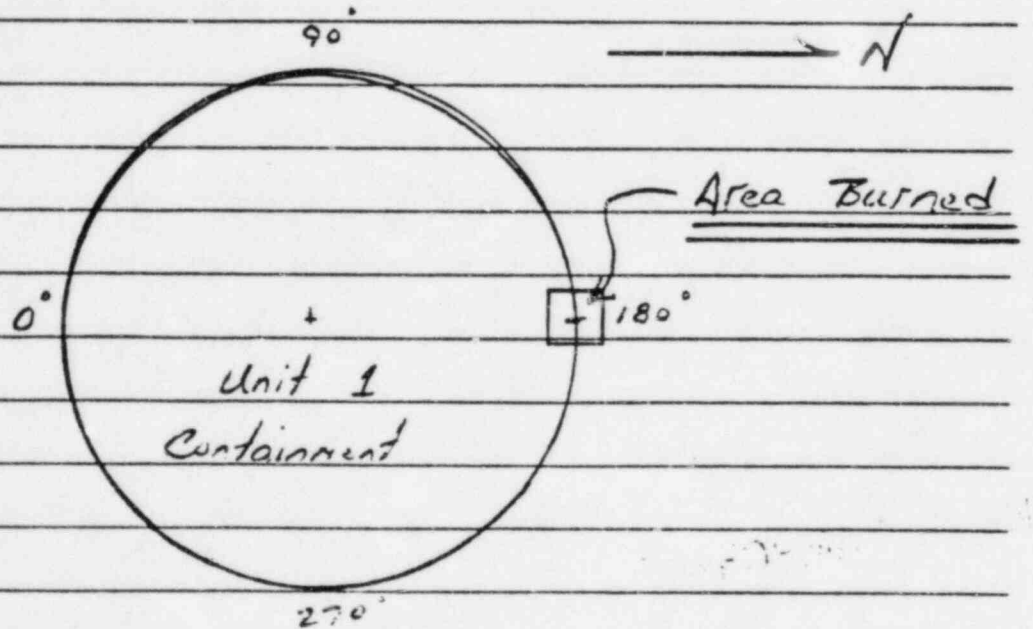
FIELD INSPECTION REPORT

Date 7/26/78 Spec. No. WP-02
 Location Unit No. 1 Inspector Kandy 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 Kandy 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 Reglets and End 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 Sikastix Epoxy Cement	None	None	Satisfactory	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°)	None N/A	None N/A	Satisfactory 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.	None Not Applicable	Satisfactory	Randy G. Godwin Individual Notified: Jim Cathan Date 7/14/78
5	Waterstop Butt Splices 200 ± 215 ±	None All Splices made in accordance with WP-12.	None	Satisfactory	Randy G. Godwin Individual Notified: J. C. Hyatt Date 7/21/78

3/8

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 208-1°	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 208-1°	<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: 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 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 Fireman Individual Notified: 5/2/78 Date Randy G. Collins
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 cablest 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 Fireman Individual Notified: 5/5/78 Date Randy G. Collins
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 <u>Satisfactory</u> Individual Notified: 5/8/78 Date Randy G. Collins
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 G. Collins
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. Collins 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	<u>Elevation 204</u> <u>Bottom Mat</u> Circular Bars Radial Bars Const. Joint between 151'-5" to 180' Drawg. 0612	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	<u>Elevation 204</u> <u>Bottom Mat</u> 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	<u>Elevation 204</u> <u>Bottom Mat</u> 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 6/15/78
4	<u>Elevation 204</u> <u>Bottom Mat</u> <u>Bottom Layer</u> 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	<u>Elevation 204</u> <u>Bottom Mat</u> <u>Bottom Layer</u> 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 Circular & 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 Recess 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

Example 1

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'-5" 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>	Satisfactory	<u>Randy G. Goswin</u> Notified: <u>Frank Collins</u> Date <u>8/18/78</u>
2					Individual Notified: Date
3					Individual Notified: Date
4					Individual Notified: Date
5					Individual Notified: Date

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>	Satisfactory	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>	Satisfactory	Randy G. Godwin Individual Notified: J.C. Hyatt Date 8/2/78
4	<u>Waterstop</u> 204 E.M. Accidental burning by cadweld operations. 230 ±	Area corrected on 8/8/78.	on	Satisfactory	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	Satisfactory	Randy G. Godwin Individual Notified: Jim Lathan Date 8/15/78

SK

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

Placement No. 1 CBSL 216,005

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-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 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 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 Warmbrock Date 6/15/78
5 Elevation 201' Shear Key - U Bars (303° - 270° + 90°)	<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

Exhibit 1
78-11

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

Placement No. 1 CBSL 216003

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

Exhibit 1
1000

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. 1CBSL216006

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 Fireman 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>SFX</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 D. 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 D. 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> SPK	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. ICBSL 216036

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°)	None All req'd. bars in place.	Several bars marked which did not meet spacing tolerance. Foreman notified and correction in progress.	satisfactory	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.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
3	Elevation 204 Bottom Mat Reinforcing around Valve Chambers at Azimuth 225°	None All req'd. bars in place.	Several bars violate spacing tolerance. General Foreman was notified.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/26/78
4	Elevation 204 Bottom Mat Lower & Upper Layers Circum & Radials (208°10' - 270°)	None 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.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
5	Elevation 210 #18 bars in Reactor Vessel Access Area North-South Bars East-West Bars (208°10' - 270°)	None All req'd. bars in place. additional 1# Cadweld needed to eliminate problem with survey stand.	Several areas noted and reported to General Foreman for correction.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78

Exhibit 1
77-10

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

Placement No. 1 CT35L216006

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	Elevation 216 Top Mat layers Upper & Lower Mat Radials & Circum. (208'-10" - 270')	Some bar 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	Satisfactory	Randy G. Godwin Individual Notified: Jim Latta Date: 8/8/78
2	Elevation 216 Shear Truss Bars 208'-10" - 270'	Several bars found to be left out because of support steel. Replaced 8/15/78	None All spacing meets tolerance.	Satisfactory	Randy G. Godwin Individual Notified: Jim Elliott Date: 8/15/78
3	Elevation 216 Cylinder Wall Dowels All Rows 208'-10" - 270'	Several bars found None All bars in place.	Some spacing violations noted. Reported to General Foreman. 8/15/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date: 8/15/78
4	Elevation 216 Top Mat Radials, Circum, & Wall Dowels 208'-10" to 270'	None All areas checked and corrections verified	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> 8/15/78	Satisfactory	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 3

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBSL216002

LOCATION Unit # 1
Containment Building

CHECKLIST	REMARKS	INITIALS
Defects Repaired ^(QA) <i>Notified</i>	<i>(Being Patched)</i> 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 <i>(Wet)</i> ✓	Satisfactory	RGG
E. Wet Sand		
F. Polyethylene		
G. Temperature ✓	Satisfactory	RGG
<u>FINISH</u>		
A. Steel Trowel		
B. Wood Float <i>(Built)</i> ✓	Satisfactory	RGG
C. Broom		
D. Hair Brush		
E. Rubber Float		
<i>Exposed Aggregate</i>	Satisfactory	RGG

QC INSPECTOR

Randy S. Edwin

DATE

9/8/78

PRINCIPAL SITE CIVIL ENGINEER

[Signature] SRK

DATE

9/18/78

10 Oct 9

2

AMBIENT TEMP. 78 °F
THERMOMETER NO. M4506

FOR INFORMATION ONLY
FOR USE OF THE FIELD OFFICE
CONCRETE TEST REPORT
(Procedure C-11)

PROJECT NO. 10354216002
LABORATORY # 1
DATE 8/17/78
LOCATION # 1
CONTAINMENT Bldg (pump discharge)
METHOD: (X) C-11 () OVERCAST () RAIN () OTHER
() WINDY () FOG () P. CLARITY

TRUCK NO.	TIME SAMPLED	EQUIPMENT TYPE	FICKET NO.	SHEEP (C-1)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	WATER ADDED	TEST CYLINDERS			REMARKS
												1 DAY	5 DAY	DAY	
22	6:00	10	15381	2 1/2	88	M4506	4.8	M4507A			20				293
29	6:25	10	15382	2	85	M4506	5.0	M4507A	142.8	M4507A	20	4850	6610	6370	Set 1 1565
25	7:20	10	15389	3	80	M4510	4.7	M4507A			10				294
29	7:35	10	15394	3 1/4	82	M4510	5.3	M4507A	146.5	M4507A	17	4700	5700	5910	Set 2 1566
26	7:50	10	15399	1 3/4	82	M4510	5.1	M4507A			6				295
23	8:20	10	15404	1 3/4	80	M4510	4.8	M4507A	144.1	M4507A	0	4460	5800	5590	Set 3 1567
23	8:35	10	15409	2 3/4	82	M4510	5.0	M4507A			0				296
30	9:40	10	15414	3	82	M4510	4.8	M4507A	144.6	M4507A	0	4400	4740	4950	Set 4 1568
29	9:50	10	15419	3	82	M4510	4.9	M4507A			0				297
24	10:15	10	15424	2 3/4	82	M4510	4.7	M4507A	144.4	M4507A	0	4070	5840	5870	Set 5 1569
22	10:28	10	15429	2 1/4	80	M4510	4.8	M4507A			0				298
22	11:05	10	15434	1 3/4	80	M4510	4.6	M4507A	141.6	M4507A	0	4210	5920	5980	Set 6 1570

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
 SHEEP REQUIRED 4 IN. 1
 AIR REQUIRED 6 IN. 2
 DESIGN MIX # M-56
 DESIGN STRENGTH 4000 psi

FORMS FOR FIELD USE
 DO NOT WRITE IN THESE SPACES
 CONCRETE TEST REPORT

PROJECT NO. 216002 DATE 8/17/78 (pump discharge)
 LOCATION 1000 ft. () P. CLOUDY
 AMBIENT TEMP. 76 °F
 THERMISTER NO. 014312

TEST NO.	TIME SAMPLED	CURE TIME (DAYS)	DEPTH (IN.)	SLUFF (%)	TEMP. (°C)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS		REMARKS
									7 DAY	28 DAY	
23	11:30	10	15440	1 1/2	80	M4508A	141.3	0	4280	5940	Set 7 1571
30	11:45	10	15445	1 3/4	80	M4508A	141.3	0	4320	5320	Set 8 1572
28	12:15	10	15450	2	80	M4508A	141.3	0	4380	5450	*Set 9 1573
27	12:45	10	15455	1 1/2	80	M4508A	141.3	0	4380	5660	Set 10 1574
30	1:10	10	15460	4	80	M4508A	141.3	0	4070	5590	Set 11 1515
24	1:25	10	15465	3 1/4	80	M4508A	141.9	0	3890	5410	Set 12 1576
27	1:40	10	15470	5	80	M4508A	144.9	0			
25	2:00	10	15475	4	80	M4508A	144.9	0			
24	2:30	10	15480	2 3/4	80	M4508A	144.4	0			
22	2:45	10	15485	2 3/4	80	M4508A	144.4	0			
30	3:10	10	15490	3	80	M4508A	144.9	0			
28	3:35	10	15495	4 1/4	80	M4508A	144.9	0			

FIELD QC INSPECTOR Ricky Stankard DATE 8-17-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78
 SLUFF REQUIRED 4 %
 AIR REQUIRED 6 %
 DESIGN MIX # M-56
 DESIGN STRENGTH 4000 psi

CAROLINA PORTLAND CEMENT LIGHT COMPANY
 SHALON HARRIS NUCLEAR POWER PLANT
 CONCRETE TEST REPORT
 (Procedure CQC-10)

PLACEMENT NO. 21602 DATE 8-18-78
 LOCATION ... (Camp Disc Charge)
 AMBIENT TEMP. 74 °F.
 THERMOMETER NO. 114326

W. TIME () CLEAR () OVERCAST () RAIN () OTHER
 () WINDY () FOG () P. CLOUDY

TRUCK NO.	TYP. SAMPLED	ELEVATION	TICKET NO.	SLUMP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
											7 DAY	28 DAY	DAY	
23	3 1/2		21455	4 1/4	50	21455	2.2	21455	142.9	0	4000	5620	5730	... 1577
25	3 1/2		21522	5 3/4	50	6.1	6.1	21522	122.7	0	3680	5200	5310	... 1577
27	4 1/2		21510	3 3/4	75	6.2	6.2	21510	143.0	0	4350	6010	5840	... 1579
27	5 1/2		21525	2 3/4	75	5.1	5.1	21525	143.7	0	4780	6190	6230	... 1580
27	6 1/2		21535	6.0	50	4.7	4.7	21535	146.4	0	4320	5730	5550	... 1581
29	2 1/2		21541	4.0	50	6.5	6.5	21541	144.8	0	4320	5910	5660	... 1582
23	3 1/2		21517	3 1/4	50	6.6	6.6	21517	12	12				

SLUMP REQUIRED 4 1/2 in.
 AIR REQUIRED 6 1/2 %
 DESIGN MIX # ...
 DESIGN STRENGTH ...

FIELD QC INSPECTOR Ricky Strubbe DATE 8-17-78
 LAB QC INSPECTOR Anthony Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

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

Page 9 of 9

PROJECT NO. 2602 DATE 8-18-78 AMBIENT TEMP. 80 °F
 LOCATION 2602 THERMOMETER NO. 1583
 TEST TYPE () OVERCAST () RAIN () OTHER () P. CLOUDY
 COMMENTS PER DISCHARGE

THICK NO.	TYP SAMPLED	ELEVATION FEET	FICKET NO.	SLIP (IN)	CONG. TEMP. (°F)	THERM NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
											7 DAY	28 DAY	DAY	
21	21	21	21	1 3/4	80	21	5.6	143.1	0	0	4740	620	6070	311 1583
22	22	22	22	1 3/4	80	22	5.6	143.1	0	0	4670	6190	6200	312 1584
23	23	23	23	2 1/2	84	23	6.4	140.6	10	0	3600	5410	5450	313 1585
24	24	24	24	2 1/2	82	24	5.7	142.6	0	0	4490	6050	6300	314 1586
25	25	25	25	2 3/4	82	25	5.2	143.0	0	0	4170	6050	5770	315 1587
26	26	26	26	3 1/4	86	26	6.1	143.9	0	0	4100	5530	5660	316 1588
27	27	27	27	4.0	82	27	6.4							

SLIP REQUIRED 1/4 IN.
 AIR REQUIRED 2 %
 DESIGN MIX # 13
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Ricky Steubland DATE 8-18-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

12/1
REV. 1

FOR THE USE OF CONTRACTOR ONLY

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Page 5 of 9

CONCRETE TEST REPORT
(Procedure CQC-11)

PLACEMENT NO. 26052

DATE 8-18-78

LOCATION Ring (PUMP DISCHARGE)

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

AMBIENT TEMP. 92 °F
THERMOMETER NO. 114507

THICK NO.	TYP. SAMPLED	INDIVIDUAL TEST VALUE	TICKET NO.	SLOPE (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7 DAY	DAY	DAY	DAY	
												25	2 1/2	AM	15611	
24	1 1/2	AM	15610	3 3/4	50		4.4				0					
25	1 1/2	AM	15622	4.0	52		2.0		146.0	11422	0	4030	5410	5590	318	1590
23	2 1/2	AM	15620	3 3/4	54		6.6				0					
30	1 1/2	AM	15631	4.0	57		5.9		143.1	11422	0	3820	5660	5660	319	1591
26	2 1/2	AM	15606	2 1/2	56		4.2				0					
30	2 1/2	AM	15622	2 1/2	55		4.2		143.2	11422	0	4860	6260	6150	320	1592
24	2 1/2	AM	15627	2 1/4	50		4.2				0					
27	3 1/2	AM	15625	3.0	56		4.6		144.1	11422	0	3890	5660	5350	321	1593
29	2 1/2	AM	15620	3 1/2	50		7.4				0					
28	3 1/2	AM	15621	3 1/2	52		6.6		143.1	11422	0	3680	5380	5620	322	1594
30	2 1/2	AM	15620	3.0	54		6.0				0					

SUMP REQUIRED 1 in.

AIR REQUIRED 2 %

DESIGN MIX # _____

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

FORM FOR INFORMATION ONLY

CONCRETE TEST REPORT
 (Concrete) (Cap. 11)

PROJECT NO. 1600 DATE 5/12/51
 LOCATION St. Louis, Mo.
 AMBIENT TEMP. _____ °F
 THE PROJECT NO. _____

TEST NO.	TEST SAMPLED	CURE TIME (HOURS)	CURE TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. (BUCKET)	WATER ADDED	TEST CYLINDERS			REMARKS
								7 DAY	28 DAY	90 DAY	
23	1 1/2"	3 1/4"	51	11251	6.2	142.8	0	3640	5450	5980	1595
22	1 1/2"	2 3/4"	52	11252	5.6	142.2	0	3930	5570	5840	1596
23	1 1/2"	3 3/4"	54	11253	5.2	142.2	0	3640	5230	5620	1597
20	1 1/2"	5.0"	82	11254	6.5	142.9	0	3640	6190	6150	1598
25	1 1/2"	3 1/2"	82	11255	6.1	142.4	0	4000	5800	5620	1599
27	1 1/2"	2 3/4"	82	11256	5.6	142.4	0	4530	6840	6900	1600
27	1 1/2"	2.0"	82	11257	6.7	139.9	0				
25	1 1/2"	2.0"	84	11258	6.5	143.4	0				
26	1 1/2"	2 1/2"	84	11259	6.1		10				
25	1 1/2"	2.0"	84	11260	5.0						
22	1 1/2"	2.0"	84	11261	4.1						

FIELD QC INSPECTOR Richard Stuckland DATE 8-18-51
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-51
 QA SPECIALIST Eugene Kelly DATE 9-19-51

FOR INFORMATION ONLY

CAROLINA PORT & LIGHT COMPANY
 SUBMORSE BATTERY INDUSTRIAL POWER PLANT
 CORROSION TEST REPORT
 (Proceeding 100-110)

1-01-9

TEST NO. 207
 DATE 8/15/78
 TIME 8:20 AM
 LOCATION OVERCAST () F. CLOUDY
 () P. CLOUDY

AMBIENT TEMP. _____ OF
 THERMOMETER NO. _____

TEST NO.	TIME SAMPLED	ELECTROLYTE VOLUME	ELECTROLYTE	SILICOP (%)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS		REMARKS	
											7 DAY	30 DAY		
207	8:20 AM	10	15735	1 1/2	84	M45026	5.4	M4508A	142.5	M4508A	4006	5660	5770	309 Set 37 1601
209	8:20 AM	10	15740	2 1/4	84	M45026	5.5	M4508A	141.2	M4508A	4070	5660	5770	330 Set 38 1602
30	9:20 AM	10	15745	2 1/4	86	M45026	5.6	M4508A	141.2	M4508A	4070	5660	5770	330 Set 38 1602
30	7:20 AM	10	15750	3	84	M45026	5.5	M4508A	143.1	M4508A	3710	5660	5770	331 Set 39 1603
33	9:20 AM	10	15755	3 1/4	86	M45026	5.4	M4508A	143.1	M4508A	3710	5660	5770	331 Set 39 1603
27	8:20 AM	10	15760	2 3/4	82	M45026	5.3	M4508A	143.1	M4508A	4100	5380	5800	332 Set 40 1604
24	8:20 AM	10	15765	2 3/4	82	M45026	5.6	M4508A	142.3	M4508A	3750	5590	5620	332 Set 41 1605
25	10:50 AM	10	15770	2 1/4	82	M45026	5.4	M4508A	143.2	M4508A	3180	5020	4950	332 Set 42 1606
23	11:25 AM	10	15775	3	84	M45026	5.5	M4508A	143.2	M4508A				
23	11:55 AM	10	15780	3 3/4	84	M45026	4.0	M4508A						
22	12:00 PM	10	15785	2 3/4	84	M45026	5.6	M4508A						
28	12:20 PM	10	15790	3 1/2	80	M45026	5.4	M4508A						

SLIP REQUIRED 1 / 1 / 1 in.

AIR REQUIRED 1 / 1 / 1 %

DESIGN MIX # M-56

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Bruce Trope DATE 8/19/78

LAB QC INSPECTOR ARW/mft DATE 9-16-78

QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION OF GEORGIA POLICE LIGHT COMPANY
 AND THE HARRIS BROTHER PAPER PLANT
 CONCRETE TEST REPORT

PROJECT NO. 155-22 DATE 8/17/78
 LOCATION 11th St. (overpass) () RAIN () OTHER () P. CLOUDY
 AMBIENT TEMP. 71 °F
 THERMOMETER NO. 25506

TRUCK NO.	CUP SAMPLER	INDIVIDUAL TEST YARDAGE	DEPTH (IN)	CONG. 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	1556	10	3 3/4	80	114508	5.2	114508	149.4	145.08A		3840	5326	5380	335 Set 43 1607
24	1555	10	3 3/4	84	114506	4.6	114508A	149.4	145.08A		4300	5610	5550	334 Set 41 1608
28	1530	10	2 3/4	82	114504	5.1	114508A	143.1	145.08A		4630	6020	5910	331 Set 45 1609
25	1520	10	2	80	114505	5.2	114508A	145.9	145.08A		4550	5770	5770	333 Set 46 1610
30	1520	10	2	82	114505	4.2	114508A	140.2	145.08A		4160	5010	5090	339 Set 47 1611
28	1525	10	2 1/2	80	114505	5.0	114508A							
27	1510	10	3	80	114507	5.6	114508A							
33	1530	10	3 3/4	84	114507	4.4	114508A							
25	1540	10	4 1/4	82	114506	6.0	114508A							
29	1540	10	4 3/4	81	114506	4.0	114508A							

SLURRY REQUIRED 1 1/2 in.
 AIR REQUIRED 2 1/2
 DESIGN MIX # 21-56
 DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR *Samuel* DATE 8/19/78
 LAB QC INSPECTOR *SA Wright* DATE 9-16-78
 QA SPECIALIST *Eugene Kelly* DATE 9-17-78

FOR RECAP ONLY : CAROLINA PORTLAND CEMENT CO. LIGHT COMPANY
 SHEARH HARRIS HIGHER POWER PLANT
 CONCRETE TEST REPORT
 (Procedure CQC-11)

PLACEMENT NO. 3526002 DATE 8/19/78 AMBIENT TEMP. 71 °F
 LOCAL FOR Concrete Pile THERMOMETER NO. 204526

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

TRUCK NO.	TIME SAMPLED	INDIVIDUAL TUBE AVERAGE	SLUMP (in)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BRICKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	90 DAY	
23	4:30	10	1 3/4	82	M4506	4.2	M4508A	144.8	M4508A		3840	5450	5553	Set 48 1612
25	4:35	10	2 1/4	80	M4506	5.6	M4508A							
27	5:15	10	3 1/4	82	M4506	5.8	M4508A	143.6	M4508A		3470	5700	5700	Set 49 1613
24	6:15	10	1 3/4	80	M4506	4.2	M4508A							
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

SLUMP REQUIRED 1 ± 1 in.
 AIR REQUIRED 6 ± 2 %
 DESIGN MIX # M-56
 DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Sweetroll DATE 8/19/78
 LAB QC INSPECTOR H.L. Wright DATE 9-16-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

**CONCRETE
PLACEMENT
REPORT**

FILE _____

PLACEMENT NUMBER 1CB5L216002

LOCATION (INCLUDE ELEV. FIN. BL. G.)
U. #1 CB. Fin. Mat - East Side

SCHEDULED DATE _____

TYPE PLACEMENT Struct. Mat ESTIMATED QUANTITY 4799 yds FORMS WITH _____
REINFORCEMENT 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 type="checkbox"/>	WATER	<input checked="" type="checkbox"/>
BUCKET	<input 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 type="checkbox"/>	DROP	<input checked="" type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input checked="" type="checkbox"/>
PUMP	<input 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"/>
	<input type="checkbox"/>	* Outside exterior wall Exposed Aggregate on Remainder				* Rubber Float		<input checked="" type="checkbox"/>		NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

Hot weather

COMMENT & CLARIFICATION TO PROPOSED METHODS

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

*** outside edge of mat only

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	
									CONTACT SURFACES
1	WP-5	JRL	J.E.E.	8/16	TGG				
2	WP-22	JRL	J.E.E.	8/16	TGG				
3	WP-11	J.C.	J.E.E.	8/16	TGG				
4	VP-18	JRL	J.E.E.	8/16	TGG				
5	NA	JRL	NA	8-16	NA CSH	✓	NA	8/17 R. J. Oster	
6	NA	JRL	NA	8-16	NA CSH				
7	WP-1	JRL	NA	8-16	L.F.A	✓	CH-15	8/17 P. Beane	
8	WP-5	NA	NA	8/16	TGG				
9	WP-5	JRL	J.E.E.	8/16	TGG	✓	WIS	8/17 K. Fuller	
10	WP-12	JRL	J.E.E.	8/16	TGG				
11									
12									
13									
14									

CONSTRUCTOR SIGNOFF (AREA SUPT)

QC SIGNOFF

Q.A. SIGNOFF

DATE: 8/17/78 DATE: 8/17/78 DATE: 8/17/78

DESIGN APPROVAL

TIME OF START

DATE PLACED

Charles Kelly DATE: 8/17/78 0600 08-17-78

YDS. CONCRETE DELIVERED

4792 YDS. NOT PLACED IN THIS PLACEMENT

33 YARDS WASTED

YARDS GROUT

08 YDS. PLACED IN THIS PLACEMENT

00 YARDS PLACED ELSEWHERE

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Charles Kelly TITLE: Contributor DATE: 8/17/78

REMARKS (ATTACH RELEVANT REPORTS)

* #6 bars in shear key to be installed immediately prior to placement
** Cleanup to proceed from 1st floor prep area

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-1CB5L216002

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

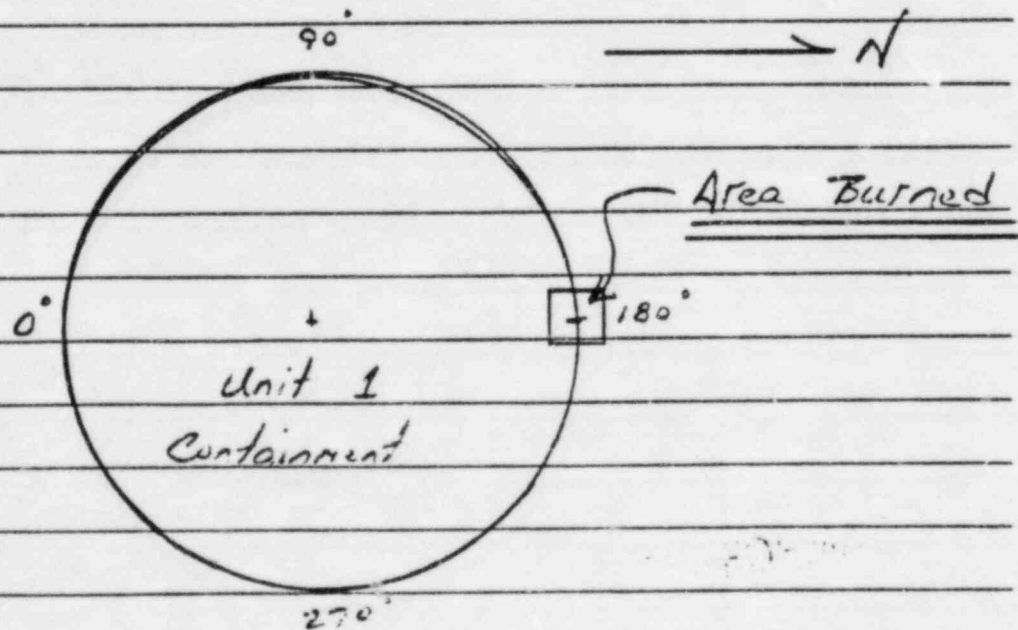
FIELD INSPECTION REPORT

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 rodweld 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. 1CBSL216003

Sheet 1 of 1a

Location Unit No. 1 Containment Building

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

SPK

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-2167-0-0610 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 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 Warmbrock 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.

Greg Cook 10-7-83

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

PLACEMENT NO. 1CBXW308001 DATE 8-29-83

MODE OF PLACEMENT

Pump Dis.

LOCATION #1 Court. Bldg.

WEATHER: CLEAR OVERCAST RAIN OTHER
 HAZY FOG P. CLOUDY

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR METER NO.	AIR UNIT WT.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS RESULTS				SET NO.	LAB #	REMARKS
										DAY	LAY	DAY	DAY			
98623	9:25AM	3	6	80	CP&L	10.047678	142.4	CP&L	CP&L	3430	8	4930	4810	1	10664	5 yds E2J
	10:00AM															
98624	1 AM	8	605	83	CP&L	10.047678	142.4	CP&L	CP&L	3430	8	4930	4810	1	10664	5 yds E2J
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															
	1 AM															

SLUMP REQUIRED 0-8 MAX. IN. DESIGN MIX # USFD M-80 FIELD QA/QC INSPECTOR [Signature] DATE 8-29-83
 AIR REQUIRED 7-8 2 DESIGN STRENGTH FOR PLACEMENT 5000 psi LAB QA/QC INSPECTOR [Signature] DATE 9-26-83
 QA/QC SPECIALIST [Signature] DATE 10-4-83



FOR INFORMATION ONLY

2

CONCRETE
PLACEMENT
REPORT

FILE _____
PLACEMENT NUMBER **1CBSL216001**

LOCATION (INCLUDE ELEV. IF IN BLDG.) **UNIT 1 C.B. BASE MAT - WEST SIDE** SCHEDULED DATE **7-14-78**

TYPE PLACEMENT **STRUCT. MAT** ESTIMATED QUANTITY **3020 YD³** **90° AT 1-4"** **SECT. 50-103**

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 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"/>	* OUTSIDE EXTERIOR WALL EXPOSED AGGREGATE ON REMAINDER				RUBBER FLOAT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	NUCLEAR	<input checked="" type="checkbox"/>
	<input type="checkbox"/>								<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS **HOT WEATHER** COMMENT & CLARIFICATION TO PROPOSED METHOD *** OUTSIDE EXTERIOR WALL ONLY**

PRIMARY MASONRY DWG. NO. **CAR-2167-G-0610 R6** SPEC. FINISH **RG6** (SEE ACTION PLAN FOR THIS PLACEMENT)

DES. STRENGTH **4000 PSI** DESIGN MIX CODE **M44** NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE **Charles Hallen A.E.** DATE **7/14/78**

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			QUALITY CONTROL		QUALITY ASSURANCE		
	REF. PROC	CRAFT SUPT	FIELD ENG	DATE	INSPECTOR	REF. PROC	DATE	INSPECTOR
1 CONTACT SURFACES	VP-5	J.L.	J.E.E.	7/14/78	RG6	VP-5	7-15-78	A.L.W.
2 FORMS	VP-22	J.L.	J.E.E.	N	RG6	N/A	-	A.L.W.
3 REINFORCING STEEL	VP-11	J.C.	J.E.E.		RG6	VP-11	7-15-78	A.L.W.
4 EMBEDS	NA	NA	NA		RG6	N/A	-	-
5 MECHANICAL	N/A		NA		N/A RG6 CSH	N/A	-	-
6 ELECTRICAL	NA	J.F.	NA		N/A RG6 CSH	N/A	-	-
7 CADWELDS	VP-1	J.F.	NA		RG6	✓ CHIS	7/14	A. Conroy
8 N O E	NA	NA	NA	7/14/78	RG6	N/A	-	-
9 CLEANUP	VP-5		NA	7/14/78	RG6	* VP-5	7-15	A.L.W.
10 WATERSTOP	VP-12	J.L.	NA	7/14/78	RG6	✓ VP-12	7-15	A.L.W.
11								
12								
13								
14								

CONSTRUCTOR SIGNOFF (AREA SUPT) **T.E. McNeill** DATE **7-14-78** QC SIGNOFF **Randy B. Bohls** DATE **7/14/78** Q.A. SIGNOFF **A.L. Wright** DATE **7-15-78**

DESIGN APPROVAL **Ken Sullivan** DATE **7-15-78** TIME OF START _____ DATE PLACED **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 B. Bohls** 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**

1-CB-1CBSL216001

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

000560

TP-21
Exhibit 1

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

Placement No. ICBSL 216001

Sheet 1 of 1

Location Unit No 1 Containment Building

FOR INFORMATION ONLY

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector	Several Holidays Detected and patched in accordance with WP-02.	None	Satisfactory	Randy G. Godwin
	From 65° to 115° Fuel Handling Wall Between Requets and bond of membrane to waterstop.				Individual Notified: Stanley Carter Date: 6/8/78
2	Repair of Waterstop Fuel Handling Wall	None	None	Satisfactory	Randy G. Godwin
	Top Waterstop Repaired with Sikastix Epoxy Cement				Individual Notified: N/A Date: 5/24/78
3	Waterstop Tie-in to existing Waterstop in Fuel Handling Bldg. Wall	None	None Butt-splice approved by FCR-180	Satisfactory	Randy G. Godwin
	0° and 180° (Top and Bottom)				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. Not completed 7/13/78		Satisfactory complete 7/14/78 3:30 PM	Randy G. Godwin
					Individual Notified: J.C. Hyatt Date: 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (0° - 151' 50')	None All work under Item 4 above completed in accordance with specifications.	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

SKK

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

FOR INFORMATION ONLY
4

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	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. Colvin
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 <u>min.</u>	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy D. Colvin
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. Colvin
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. Colvin
5	Elevation 204 Ft. Bottom Mat Circular Bars Radial Bar 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>	Randy G. Colvin Individual Notified: Frank Collins Date 6/14/78 SPK

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

INFORMATION ONLY

Placement No. 1CBSL 216001

Sheet 2 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
	Elevation 205 Bottom Mat Circular Bars Radial Bars Const. Joint between 90° - 30° - 10' (Top Layer of) Lower Mat	None All req'd. bars in place.	All violations corrected and checked out 6/20/78	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/20/78
2	Elevation 201 SHEAR KEY U Bars Between 90° - 30° - 10'	None All req'd. bars in place.	Bars checked. Will have to be moved around several times to accomodate Wall Down installation. To be rechecked prior to concrete placement.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
3	Elevation 216 Top Mat Bottom Layer Radial Bars 90° - 30° - 10'	None 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.	satisfactory	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'	None 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	satisfactory	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	Randy G. Godwin Individual Notified: — Date 7/5/78

EM

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

FOR INFORMATION ONLY

Placement No. ICB5L216001

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	<u>Satisfactory</u>	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	<u>Satisfactory</u>	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	<u>Satisfactory</u>	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)	All areas corrected 7/13/78 4:00 PM	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78 EOK

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

INFORMATION ONLY

Placement No. ICTBSL 216 001 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	IG 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>Elevations 204 to 216</u> Final Visual inspection made on entire placement. (0' - 151 5')	<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 7/12/78	<u>Satisfactory</u> EPA	Randy G. Godwin Individual Notified: Frank Collins Date 7/12/78

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

FOR INFORMATION ONLY

TP-21
Exhibit 1

Placement No. ICB-LE216 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 Reglets 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 Sikastix Epoxy Cement	None	None	satisfactory	Randy G. Godwin
					Individual Notified: N/A
					Date 5/24/78
3	Accidental Burning of Waterstop Location ± 100' 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

SPK

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

INFORMATION NO. _____

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

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	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 B. 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 $\frac{1}{2}$ " min.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy B. 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 B. Godwin
4	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint between 151-50' 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 Warming Fireman Individual Notified: 6/12/78 Date Randy B. Godwin
5	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint between 151-50' 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>	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

INFORMATION NO. 100

Placement No. ICB5L216004

Sheet 2 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
	Elevation <u>204 Ft.</u> 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 <u>204</u> No clearance between cadweld and concrete on lower mat. Location - <u>55' ±</u>	-	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 <u>216 Ft.</u> Top Mat Radial Bars Bottom Layer Const. Joint Entire Placement	None All req'd. bars in place	All bars met tolerance. By using plumb bib. 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 <u>216 Ft.</u> 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 TM 6/23/78	satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrock Date 6/23/78
5	Elevation <u>198 Ft.</u> 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

INFORMATION NO.

Placement No. 1CBSL216004

Sheet 3 of 4

Location Unit No. 1 Containment Building

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

INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	INSPECTOR
1. <u>Elevation 216</u> Top Mat Upper Layer Radial Bars Circular Bars (90° - 151° - 50')	None 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.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/6/78
2. <u>Elevation 201</u> SHEAR KEY U Bars (90° - 151° - 50')	None 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
3. <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
4. <u>Elevation 216</u> Cylinder Wall Dowels - 1 st Row (90° - 151° - 50')	None All req'd. bars in place.	Numerous bars out of tolerance as far as spacing. Quality was unsatisfactory. Superintendent and General Fireman 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. 1CBSL216001. These items are are for Isometric Nos. 1CBSL216001, 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. 1CBSL216004

Sheet 4 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-0- 0612, 0613, 0614, 0615, 0616, 0617, 0618, 0619

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

SAK

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

Placement No. 1CBSL 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: Stan Carter Date: 6/5/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikashiv 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.	Area not as bad as anticipated. Corrected 7/6/78	Not corrected as of PM 6/21/78.		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

SPK

CAROLINA POWER & LIGHT
SHEARON HARRIS NUCL. AR. POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL

FOR INFORMATION

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	IC 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 Date 6/14/78
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>	Randy G. Godwin Individual Notified: Stan Warmbrud Date 6/15/78 SK

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

FOR INFORMATION
Sheet 2 of 3

Placement No. 1CB5L216005

Location Unit No 1 Containment Building

Drawings 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. <u>Location - 55° ±</u>	—	Not corrected as of TM 6/21/78 Corrected 7/6/78 700	— by use of shim.	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.	<u>satisfactory</u>	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.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbr. 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.	<u>satisfactory</u> EOK	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
Sheet 3 of 3

Placement No. 1 CBSL 216 005

Location Unit No 1 Containment Building

Drawings C&P-2167-C-0612 0613 0614 0615 0616 0617 0618 / 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IC 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 Duct 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 CBSL 216 001. These Items are for Isometric Nos. 1 CBSL 216 001, 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. (0° - 151° 50')	<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> 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
TP-15
Exhibit ONLY

PLACEMENT NO. ICBSL 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. ICB. 5816 001 DATE 7-17-78 (Procedure CQC-13)
 LOCATION # 1 Containment Bldg. Spump discharge Test pt. 2
 WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER
 () HEAVY () FOG () P. CLOUDY
 AMBIENT TEMP. 66 °F
 THERMOMETER NO. m4448

TRUCK NO.	TIME SAMPLED	DEPTH LEGAL THICK VARIATION	FICKET NO.	SLUMP (IN)	CONC. TEMP. (OF)	THERM. AIR NO.	AIR METER NO.	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		4990	6470	6150	Set 1 LAB 1206
23	11:35	10	12398	2 1/2	80			145.6		4740	6080	5980	Set 3 1208
30	12:25	10	12408	3 1/2	87			148.4		4850	6150	6260	Set 5 1210
29	1:10	10	12418	2 1/4	81								
22	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		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		4530	6230	5980	Set 8 1214
24	5:10	10	12478	2 1/2	83								
23	5:45	10	12488	3	83			147.0		4770	6440	6240	Set 10 1216
25	6:40	10	12498	3 1/2	82								

SLEEP REQUIRED 4 1 in.
 ATE REQUIRED 6 2 %
 DEFLECT DEFLECT m-45 21-56 6mm 8-16 78
 DEFLECT DEFLECT 4000 psi
 FIELD QC INSPECTOR Rickey Staibland DATE 7-17-78
 LAB QC INSPECTOR Steve Mendenhall DATE 8-14-78
 QA SPECIALIST Eugene Kelly DATE 8-15-78

QA-26
12/77
Rev. 1

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

Page 2 of 2

PLACEMENT NO. ICBSA216001

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

SLIP REQUIRED 4 ¹/₄ 1 in.

FIELD QC INSPECTOR Bruce Profell

DATE 7/18/78

AIR REQUIRED 6 ¹/₂ 2 %

LAB QC INSPECTOR Arthur M. ...

DATE 8-14-78

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

QA SPECIALIST Eugene Keeg

DATE 8-15-78

DESIGN STRENGTH 4000 psi

PLACEMENT NO. 10BSHA16001
LOCATION # 1 Containment Bldg.

DATE 7-17-78
Spump discharge Test pt 1

FOR INFORMATION ONLY

AMBIENT TEMP. 73 °F
THERMOMETER NO. m 4527

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

TIME NO.	TIME SAMPLED	ELEVATION	FICKET NO.	SLEEP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (C)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS		REMARKS
												7 DAY	28 DAY	
25	10:45	10	12319	3	80	m4507	5.6	m4507A			119			
30	11:15	10	12313	1 1/2	80		5.1		148.0	m4507A		4810	6260	Set 2 umb 1207
23	12:10	10	12403	2	80		5.2		148.6	m4507A		5130	6580	Set 4 1209
27	1:00	10	12413	3	80		5.1		148.4	m4507A		4460	5910	Set 5A 1211
23	1:35	10	12423	4 3/4	83		7.6							
27	2:20	10	12433	2 1/4	83		4.4							
22	3:00	10	12443	2 3/4	82		4.5		148.1	m4507A		4560	6540	Set 7 1213
26	3:45	10	12453	3	83		4.2							
22	4:15	10	12463	3	84		4.7							
24	5:00	10	12473	3 1/4	86		4.5		148.5	m4507A		4770	6830	Set 9 1215
22	5:35	10	12483	2 1/4	96		4.5							
24	6:45	10	12493	4	86		5.4		148.9	m4507A		4490	6050	Set 11 1217

SLEEP REPORTED 4 ± 1 in.
 AIR REPORTED 6 ± 2 %
 DESIGN MIX # M-45 M-56 CMW
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR John Holland DATE 7-17-78
 LAB QC INSPECTOR Steve M... .. DATE 8-14-78
 QA SPECIALIST Eugene Kelly DATE 8-15-78

PLACEMENT NO. JCSK216001 DATE 7-17-78 - 7-18-78 (Procedure CGC-13)
 LOCATION # 1 Containment Bldg (pump discharges) Test pt. 1
 WEATHER: CLEAR OVERCAST RAIN OTHER
 BEST FOG P. CLOUDY
 AMBIENT TEMP. 80 °F
 THERMOMETER NO. 024507

TRIAL NO.	TIME SAMPLED	ELEVATION	TEMP. (°F)	SLUMP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS		REMARKS
											7 DAY	28 DAY	
26	7:00	10	81	3 3/4	81	m4507	4.7	m4507A	148.1		4530	6190	5130 5139 Set 13 12/19
26	8:05	10	82	2 1/2	82		4.1						Set 15 12/21
24	8:30	10	82	3 1/2	82		4.9						Set 17 12/23
27	8:50	10	82	3 3/4	82		4.7				4210	6400	Set 19 12/25
25	9:37	10	80	3 1/4	80		4.6				4560	6580	Set 21 12/27
25	10:06	10	80	2 1/2	80		4.3						Set 22 12/28
28	10:30	10	80	2 1/2	80		4.5						
28	11:22	10	82	4	82		4.2				4460	5780	
26	11:45	10	82	5	82		4.8						
24	12:20	10	80	4 1/4	80		5.2				3470	5860	
26	12:30	10	80	4 1/4	80		5.0						
27	12:50	10	80	3	80		5.2				4210	5230	5670

SUMP ELEVATED 4 ¹/₁ in.
 AIR ELEVATED 6 ¹/₂ %
 DESIGN MIX # M-56 6MA
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Steve Angel DATE 7/18/78
 LAB QC INSPECTOR Alan Marshall DATE 8/5/78
 QA SPECIALIST Ernest Kelly DATE 8-17-78

FOR INFORMATION ONLY

PLACEMENT NO. 1CBSA216001 DATE 7-18-78 (Procedure CQ-13)
 LOCATION # 1 Containment Bldg. (pump discharge) Test pt. 1
 WEATHER: (X) CLEAR () OVERCAST () RAIN () OTHER _____
 () HAZY () FOG () P. CLOUDY

AMBIENT TEMP. 71 °F
 THERMOMETER NO. M4507

TRIP NO.	TIME SAMPLED	ELEVATION FEET	DEPTH YARDS	BUCKET NO.	SLUMP (IN)	CONC. TEMP. (OF)	THERM. NO.	AIR (°)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	TEST CYLINDERS			REMARKS
												7 DAY	28 DAY	90 DAY	
30	1:10	10	10	12608	2 1/2	80	M4507A	5.5	M4507A	147.1	M4507A	4460	5900	5980	Set 23 1221
27	1:25	10	10	12613	2 1/2	80		5.0		147.7	M4507A	4770	5940	5520	Set 24 1230
23	1:45	10	10	12618	3 1/2	78		5.3		146.4	M4507A	4530	5800	6080	Set 25 1231
29	2:10	10	10	12624	2 3/4	80		5.0		147.9	M4507A	4390	6000	6470	Set 26 1232
24	2:20	10	10	12629	3 1/4	80		5.1		146.9	M4507A	4740	5550	5800	Set 27 1233
22	2:40	10	10	12634	3 1/4	82		2.8		147.1	M4507A	4460	5380	5380	Set 28 1234
28	2:50	10	10	12639	3 1/2	80		4.8							
30	3:10	10	10	12644	3 1/4	80		4.5							
29	3:30	10	10	12649	2 1/2	80		4.7							
23	3:40	10	10	12654	2 3/4	80		6.0							
29	4:00	10	10	12689	2 3/4	80		4.4							
26	4:20	10	10	12669	2 1/2	80		4.4							

SLUMP REQUIRED 4 ± 1 in.
 AIR REQUIRED 6 ± 2 %
 DESIGN MIX # M-45 M-56 6MW 8-Y-78
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Buckley DATE 7/15/78
 LAB QC INSPECTOR Steve Mendenhall DATE 8/15/78
 QA SPECIALIST Egypt Kelly DATE 8-7-78

PLACEMENT NO. 1 CBSA 216001 DATE 7-18-78 (Procedure: CPG-13)
 LOCATION #1 Containment Bldg. (pump discharge) Test pt. 1
 WEATHER: CLEAR OVERCAST RAIN P. CLOUDY
 Hazy FOG

AMBIENT TEMP. 70 °F
 THERMOMETER NO. 114507

FOR INFORMATION ONLY

TRUCK NO.	TIME SAMPLED	ELEVATION	WIND DIRECTION	WIND VELOCITY	MOON	STAR	PLANET	TEMP. NO.	THERM. AID (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS		REMARKS	
													DAY	DAY		
28	4:40	10						80	4.4	M45070						
25	5:00	10					80	4.7			149.8	M4507A	3860	5700	5240	Set 29 1235
26	5:20	10					80	6.5								
29	5:35	10					80	4.2			148.7	M4507A	4240	6050	6120	Set 30 1236
25	6:05	10					80	4.9				+10				
27	6:30	10					79	5.0			148.0	M4507A	4170	5040	5090	Set 31 1237
23	7:30	10					79	5.0			142.7	M4507A				Set 32 1238
:	:															
:	:															
:	:															
:	:															
:	:															

SLEWP REQUIRED 4 ± 1 in.
 AIR REQUIRED 6 ± 2 %
 DESIGN MIX # M-95 M-56 6 MW 8-8-78
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Bruce Sigel DATE 7/18/78
 LAB QC INSPECTOR Steve M. ... DATE 8/15/78
 QA SPECIALIST Eugene Kelly DATE 8-17-78

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.

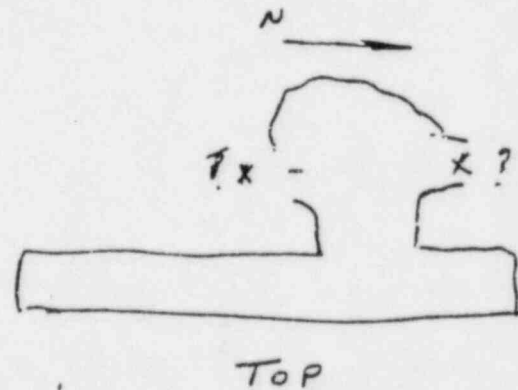
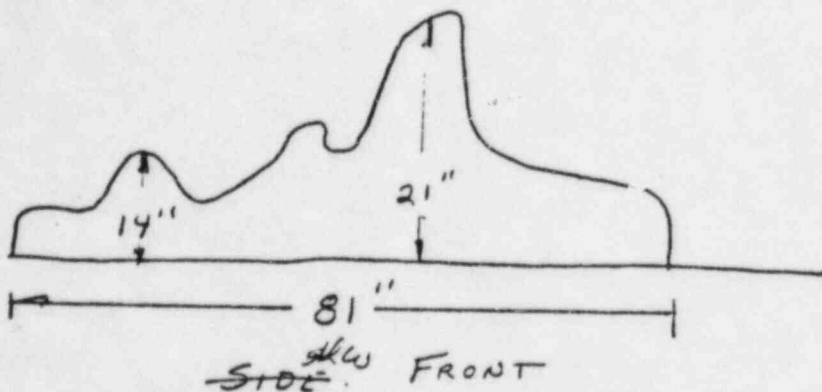
Date 9-13-78

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.

QA RECORDS

RECEIVED
OCT 0 1978
RECEIVED

SHNPP CONSTR. QA UNIT
OPERATION ONLY

000583

ICB-KBSL 216002

A. L. Wright

QC Inspector

9-13-78

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 # 1CBSL 216002

Date 9-25-78

Page 1 of 1

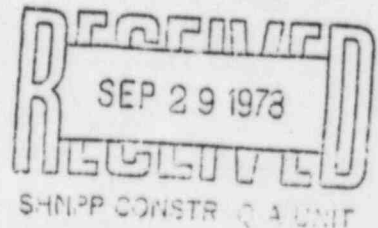
Report No. 132

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



INFORMATION ONLY

A. L. Wright
QC Inspector

9-25-78
Date

AK 9/25/78

1-CB-10250/6002



CONCRETE
PLACEMENT
REPORT

FILE # ICBSL 216002-P

PLACEMENT NUMBER 10-2-78

LOCATION (ROUTE, ELEV., P.C. POINT)

214 (Northside)
(State Capital)

DATE 10-2-78

TYPE PLACEMENT Grout Patch 2cy

SET AS placed N/A

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMS	OTHER
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	HAND SCREED <input type="checkbox"/>	FORMS ABOVE <input checked="" type="checkbox"/>	WATER <input type="checkbox"/>
BUCKET <input type="checkbox"/>	TREMIE <input checked="" type="checkbox"/>	FORM <input type="checkbox"/>	BULL FLOAT <input type="checkbox"/>	TARPS <input type="checkbox"/>	NET BURLAP <input checked="" type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>	<u>Strap</u> <input checked="" type="checkbox"/>	TROWEL MACH. <input checked="" type="checkbox"/>	INSULATION <input type="checkbox"/>	VAPOR BARRIER <input type="checkbox"/>
PUMP <input type="checkbox"/>			BROOM <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	MEMBRANE <input type="checkbox"/>
TRUCK <input type="checkbox"/>			<u>N/A</u> <input type="checkbox"/>		MULCH <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.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	QUALITY ASSURANCE	
						H	REF. PROC. DATE
1 CONTACT SURFACES	<u>WP-5</u>	<u>JRL</u>	<u>JRL</u>				
2 FORMS	<u>WP-22</u>	<u>JRL</u>	<u>JRL</u>				
3 REINFORCING STEEL	<u>NA</u>	<u>NA</u>	<u>NA</u>				
4 EMBEDS	<u>NA</u>	<u>NA</u>	<u>NA</u>				
5 MECHANICAL	<u>NA</u>	<u>NA</u>	<u>NA</u>				
6 ELECTRICAL	<u>NA</u>	<u>NA</u>	<u>NA</u>				
7 CADWELDS	<u>NA</u>	<u>NA</u>	<u>NA</u>				
8 N D E	<u>NA</u>	<u>NA</u>	<u>NA</u>				
9 CLEANUP	<u>WP-5</u>	<u>JRL</u>	<u>NA</u>				
10 Placement	<u>WP-27</u>	<u>JRL</u>	<u>NA</u>				
11							
12							
13							
14							

QIA RECORDS
RECEIVED
OCT 6 1978
RECEIVED

SHNPP CONSTR. Q A UNIT

CONSTRUCTOR SIGNOFF (AREA SUPT)

J.L. Latta

DATE 10-2-78

Q.C. SIGNOFF

SEE ABOVE

DATE

Q.A. SIGNOFF

H.L. Wright

DATE 10-2-78

DESIGN APPROVAL

N/A

TIME OF START

N/A

DATE PLACED

10-03-78

YDS CONCRETE DELIVERED

1

YDS NOT PLACED IN THIS PLACEMENT

0

YARDS PLACED

YARDS GROUT

1

YDS. PLACED IN THIS PLACEMENT

1

YARDS PLACED ELSEWHERE

0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME

N/A

TITLE

N/A

DATE N/A

REMARKS (ATTACH RELEVANT REPORTS)

ICBSL 216002-P

ICBSA 204012

JK

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

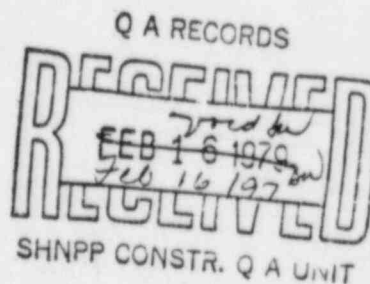
Report No. C-212

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

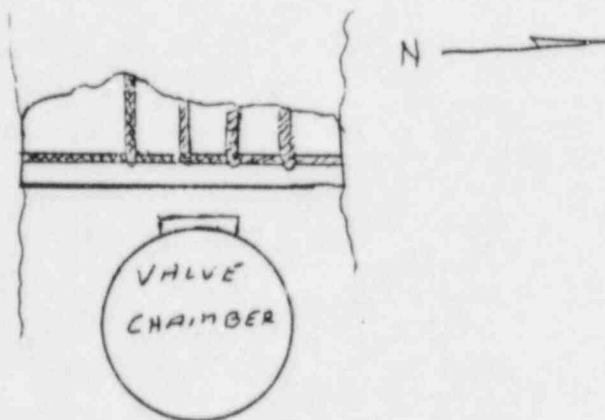
Page 1 of 1

Report No. 221

Inspection Details

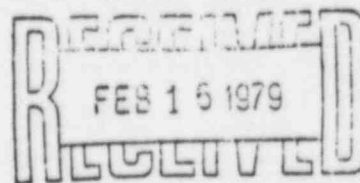
The area to be patched in the above placement is located above the northern-most valve chamber in containment bldg No. 1.

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.

QA RECORDS



SHNPP CONSTR. QA UNIT

1-CR-1CBSL 216002

H.L. Wright
QC Inspector

10-6-78
Date

JK 2/10/79

CP&L SHNPP

CONCRETE PLACEMENT REPORT

FILE

PLACEMENT NUMBER 1C85L216002

LOCATION (INCLUDE ELEV. IF IN BLDG.) Northern Nat Value Center (Elev 204) Cont. #1 SCHEDULED DATE: 10-3-78

TYPE PLACEMENT POURBACK CONCRETE ESTIMATED QUANTITY 1 yd TEMP LIMIT 50° placed SLUMP LIMIT 4" 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 checked="" type="checkbox"/>	HAND SCREED	<input type="checkbox"/>	FORMS ALONE	<input checked="" type="checkbox"/>	WATER	<input type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>
PUMP	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<u>Form</u>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	NUCLEAR	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

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 NTA

DES. STRENGTH 4000 psi DESIGN MIX CODE M 15 6 NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE BY Ken Fuller TITLE: Area Eng DATE: 10/3/78

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			SGG		SGG
2. FORMS	WP-22				BELOW		BELOW
3. REINFORCING STEEL	NA	NA	NA				
4. EMBEDS	NA	NA	NA				
5. MECHANICAL	NA	NA	NA	10-3	C. SHAW		
6. ELECTRICAL	NA	NA	NA	10-3	C. SHAW		
7. CADWELDS	NA	NA	NA				
8. N.D.E.	NA	NA	NA				
9. CLEANUP	WP-5		NA				
10. PLACEMENT	WP-27		NA				
11.							
12.							
13.							
14.							

CONSTRUCTOR SIGNOFF (AREA SFT) Ken Fuller DATE 9 OCT 78 I.C. SIGNOFF WA PER GEAR DATE 20 OCT 78 W.A. SIGNOFF WA PER LEG DATE 9 OCT 78

DESIGN APPROVAL Ken Fuller DATE 10-3-78 TIME OF START NA DATE PLACED 10/3/78

YDS. CONCRETE DELIVERED	<input type="checkbox"/>	YDS. NOT PLACED IN THIS PLACEMENT	<input type="checkbox"/>	YARDS WASTED	<input type="checkbox"/>
YARDS GROUT	<input type="checkbox"/>	YDS. PLACED IN THIS PLACEMENT	<input checked="" type="checkbox"/>	YARDS PLACED ELSEWHERE	<input type="checkbox"/>

ACCEPTANCE OF PLACEMENT METHODS BY COMPLETENESS OF ABOVE INFORMATION

NAME Ken Fuller DATE 10/3/78

REMARKS (ATTACH RELEVANT REPORTS): Reinforcement only

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

1C85L216002

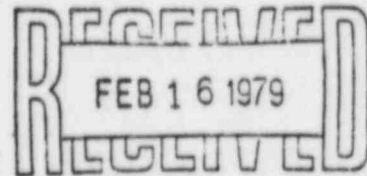
Subject
Concrete Patchwork Inspection
1 CBSL 216002

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 FC2-288.
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

A. L. Wright
QC Inspector

11-6-78
Date

1-CB-1CBSL 216002

JK 2/16/79

APF-001
Rev. 9
2/78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

AP-17-03
Exhibit 1

FIELD CHANGE REQUEST/PERMANENT WAIVER

Page 1 of 2

Type of Request: Permanent Waiver to "use-as-is"
 Field Change See Recommended Action REQ/PA 288

Identification of Area and Item: Non-
Unit 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
RECEIVED
OCT 19 1978

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

Requested by: V.O. Pringle, P. Eng. 9/25/78
Signature & Title Date
Site Approval: AM Lundy 9/26/78
Permit Engineer - Project Date

Design Engineering Approval (AE) (SSS) Approved as Recommended Rejected Conditional Approval
Telephone Resolution Yes No

This change requires the following Document(s) (Specification, Drawing, SAE, etc.) to be changed SHOW ON AS-BUILT DWG.

Comments:
Mario S. Verdillo, Sr. Eng. 10/2/78 Michael J. Pat... PE 10/2/78
Signature Title Date

CP&L Engineering Approval Approved as Recommended Rejected Conditional Approval
Telephone Resolution Yes No

J.R. Dwyer 10-6-78 J. Gu... 10-19-78
Discipline Engineer Date

Site Concurrence: Recommend Implementation Alternate Resolution
AM Lundy 10-19-78

2158
FOR INFORMATION ONLY

Attachment to FCR-C-238

CAROLINA PORT AND LIGHT CO. INC.
SHELDON WARRIS MARINE PORT PLANT

FORMS CONTINUATION SHEET

11-8-71
E. J. L. S.

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.

FOR INFORMATION ONLY

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

FOR INFORMATION ONLY

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

1-CB-SL-216-002

APF-001
Rev. 10

JAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

AP-IX-05
Exhibit 1

9/78

FIELD CHANGE REQUEST/PERMANENT WAIVER

Page 1 of 3

Type of Request: Permanent Waiver to "use-as-is" FCR/EN C-272
 Field Change See Recommended Action

Identification of Area and Item: Q ASME Section III
 Non-Q Non-ASME Section III

Specifications/Documents: CAR-SH-CH-06

Conflict/Condition: SAME AS FCR-C-278 (ATTACHED) OCT 17 1978
 FOR INFORMATION ONLY

Recommended Action: Please Investigate and Resolve 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: <u>Charles W. Smith A.E.</u> Discipline Engineer	<u>9-27-78</u> Date	Site Approval: <u>AM Linn</u> Resident Engineer - Project	<u>9/27/78</u> Date
--	------------------------	---	------------------------

Design Engineering Approval (AE) (NSSS) _____ Telephone Resolution
 Yes No

Approved as Recommended Rejected Conditional Approval

This change requires the following Document(s) (Specification, Drawing, SAR, etc.) to be changed NONE

Comments:

<u>Mario S. Veribello Sr. A.E.</u> Signature	<u>9/27/78</u> Date	<u>Michael W. H. Jr. PE</u> Signature	<u>9/27/78</u> Date
---	------------------------	--	------------------------

CP&L Engineering Pool Approval _____ Telephone Resolution
 Yes No

Approved as Recommended Rejected Conditional Approval
 In accordance with Elbasco Comments on FCR-C-278

<u>J.P. Ringgar</u> Discipline Engineer	<u>10-4-78</u> Date	<u>J.G. Winters</u> MEP or PPF	<u>10-5-78</u> Date
--	------------------------	-----------------------------------	------------------------

Site Concurrence: Recommend Implementation AM Linn N-16-78
 Alternate Resolution

APF-001
Rev. 9
2/78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

AP-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

FORM C-27

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

Site Approval: Charles J. ... 9/19/78
Resident Engineer - Project Date

Design Engineering Approval (AE) (N/SSS) Telephone Resolution Yes No

Approved as Recommended Rejected Conditional Approval

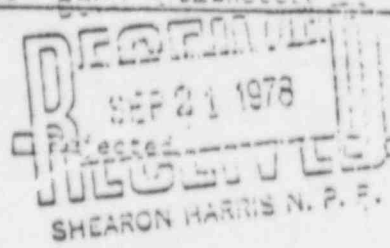
This change requires the following Document(s) (Specification, Drawing, SAR, etc.) to be changed _____

Comments:

Signature Title Date

CP&L Engineering Pool Approval Telephone Resolution Yes No

Approved as Recommended Conditional Approval



Discipline Engineer Date MEP or PPE Date

Site Concurrence: Recommend Implementation Alternate Resolution

PAGE 20
FCR-C-2

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
FOR 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.

WORK SLAB &
POROUS CONC.

B/MAT
EL. 180.00'

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

DOCUMENT CONTROL

REVISIONS
SEP 21 1978

SHEARON HARRIS N. P. P.

B/MAT
EL. 180.00'

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

SEE PLAN

WORK SLAB &
POROUS CONC.
CHANNEL

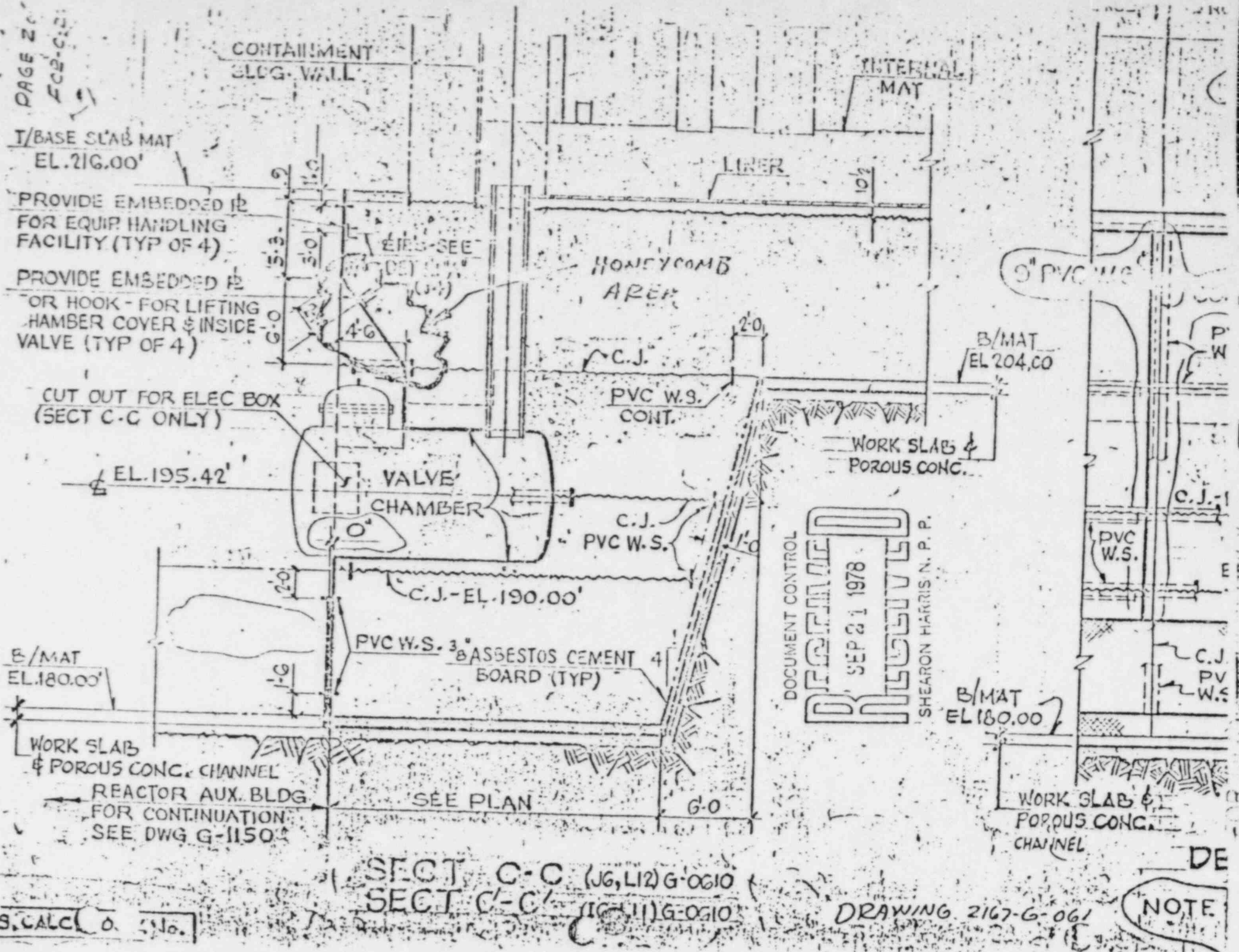
SECT C-C (J6, L12) G-0610
SECT C-C (I6, L11) G-0610

DRAWING 2167-G-061

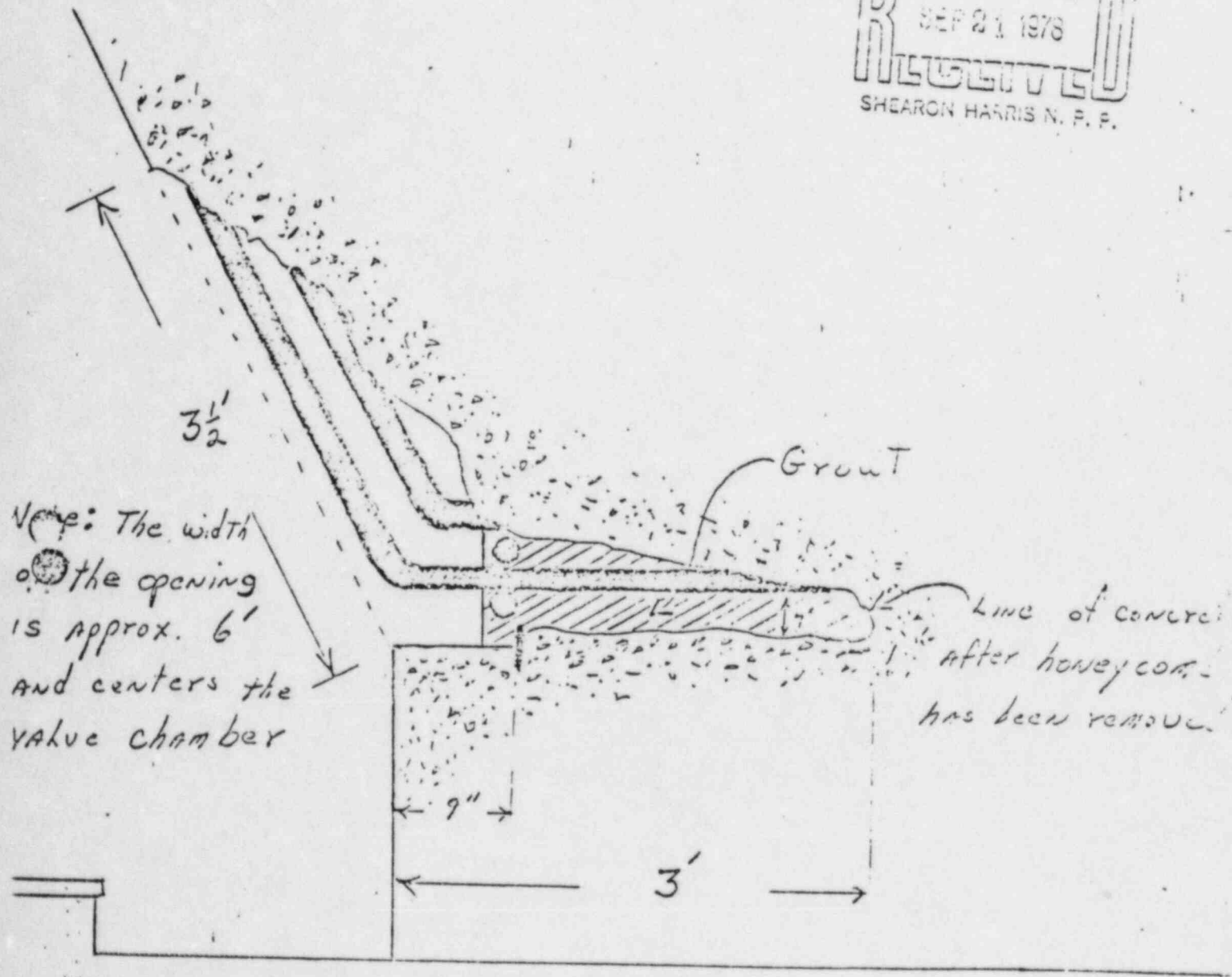
NOTE

IS. CALC (0. 5/10)

DE



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



Value Chamber
(Northern most value chamber in unit #1)
≈ 218°

FOR INFORMATION ONLY

Drawing NOT TO SCALE

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/~~12~~ C-292

Implementation Completed as Approved?

Yes
No

Comments:

QA RECORDS
RECEIVED
MAR 27 1979

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
SHEARON HARRIS N. P. P.

1-2-1

**CONCRETE
PLACEMENT
REPORT**

FILE

2

PLACEMENT NUMBER 1CBXW219001

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~~ 230 yds TEMP LIMIT 55^{AS} placed SLUMP LIMIT 4" 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 checked="" type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NUCLEAR**	<input checked="" type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

*Exposed Agg. ** *** Nuc 10 on Ext wall face*

ANTICIPATED SPECIAL WEATHER PRECAUTIONS COMMENT & CLARIFICATION TO PROPOSED METHODS At C.S. the concrete must be free of laitance & roughened with the aggregate is exposed for a depth of 1/2"

PRIMARY MASONRY DWG. NO. 2167-G-0610 SPEC. FINISH Exposed Aggregate

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	CAF				
2 FORMS	WP-22	J. P. H.	J. D.	12/2	CAF				
3 REINFORCING STEEL	WP-11	J. C.	J. E.	12/2	CAF				
4 EMBEDS	NA	N/A	NA	12/2	CAF				
5 MECHANICAL	NA	J. P. H.	NA	11/16	J. P. H.				
6 ELECTRICAL	NA	J. P. H.	NA	11/21	J. P. H.				
7 CADWELDS	WP-1	J. C.	NA	12/2	CAF				
8 N D E	NA	NA	NA	12/2	CAF				
9 CLEANUP	WP-5	J. R. L.	NA	12/4	* CAF				
10 Bend breaker	DCN 552-112	J. R. L.	NA	12/2	CAF				
11									
12									
13									
14									

FOR INFORMATION ONLY

CONSTRUCTOR SIGNOFF (AREA SUPT) [Signature] DATE 12/2/78 C.C. SIGNOFF [Signature] DATE 12/4/78 J.A. SIGNOFF [Signature] DATE 12-78

DESIGN APPROVAL New Fuller DATE 12/1/78 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 [Signature] TITLE Construction Inspector DATE 12/4/78

REMARKS (ATTACH RELEVANT REPORTS)
* Delivering to container just prior to the placement of concrete.
** WAREHOUSE #3

PRE-CHECKOUT 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. LC6XW18W

LOCATION Unit #1 Cont. Bldg
El. 219

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

QC INSPECTOR [Signature] DATE 12/4/78

PRINCIPAL SITE CIVIL ENGINEER _____ DATE _____

Number: 77-12

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

Placement No. 108XN219001

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. A. Frank Individual Notified J. Williams Date Nov. 27, 1978
2	Ditto Iron #1 (10)	None	None	Sat	C. A. Frank Individual Notified Date Nov. 1, 1978
3					Individual Notified Date
4					Individual Notified Date
5			EK		Individual Notified Date

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

Placement No. LCBXW219001

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	<p><i>C. J. French</i> Individual Notified: _____ Date <u>12/1/78</u></p>
2	216 El. to 218.5 El. Shear tie bars 0° to 360	Approx. 150 shear tie bars missing	None	Sat	<p><i>C. J. French</i> Individual Notified: _____ <i>J. Latham</i> Date <u>12/1/78</u></p>
3	Item #2	None	None	Sat	<p><i>C. J. French</i> Individual Notified: _____ Date <u>12/4/78</u></p>
4					<p>Individual Notified: _____ Date</p>
5					<p>Individual Notified: _____ Date</p>

SK

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXW 219001

LOCATION Unit #1 Containment
Bldg El. 219 Exterior Wall

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

CONSTRUCTION INSPECTOR

[Signature]

DATE 12/19/78

PRINCIPAL SITE CIVIL ENGINEER

[Signature]

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)

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.	SCALE NO.	WATER ADDED	TEST CYLINDERS RESULTS				SET NO.	REMARKS	
												DAY 1	DAY 2	DAY 3	DAY 4			
29	10:20 AM	5	23588	2 3/4	63	4553	4.6	4508A			+7							
29	11:00 AM	5	23589	1 1/2	65	4553	4.0	4508A			+9							
28	1:05 AM	8	23597	2 1/2	66	4553	5.6	4508A	141.9	4508A	04530	+6	3660	5060	7150	7220	1	2507 6 Field cure made
28	2:05 AM	8	23603	3 1/2	68	4553	5.0	4508A										
30	3:00 AM	8	23608	4	68	4553	6.2	4508A	144.9	4508A	04530		3180	4780	6330	6470	2	2508
29	4:00 AM	8	23615	3	70	4553	5.4	4508A	141.4	4508A	04530		3640	5380	7000	7250	3	2509
	: 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 Stubbord DATE 12-6-78
 LAB QC INSPECTOR Clayton DATE 1-3-79
 QA SPECIALIST Eugene Kelly DATE 1-4-79

000564
FILE

**CONCRETE
PLACEMENT
REPORT**

2

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>PRBFE</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, #8</u>	<input type="checkbox"/>	NUCLEAR	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<u>Forms 20m-30</u>	<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

SERVICE COND: SPECIAL LOAD

PROTECTION: CRONOON

ANTICIPATED WEATHER CONDITIONS:
HOT

CURE (DAYS): 7

COMMENT & CLARIFICATION TO PROPOSED METHODS

RATE OF RISE - 2'/HR

PRIMARY MASONRY DWG. NO. 2167-G-0831 R-17

SPEC. FINISH
EXP. AGG.

USE M-12 PUMP GRout

DES. STRENGTH
5.0KSI

DESIGN MIX CODE
M-80

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE
BY: David Ryz TITLE: Area Eng DATE: 8/14/81

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. D. ...	8-10	R. Breedlove				
2 FORMS	WP-22	J. C. Hyatt	M. D. ...	8-10	R. Breedlove				
3 REINFORCING STEEL	WP-11	T. ...	F. ...	8-11	R. Breedlove				
4 EMBEDS	WP-11	J. C. Hyatt	M. D. ...	8-11	R. Breedlove				
5 MECHANICAL	EMBEDS	WP-102	A. ...						
	PIPE	WP-101	A. ...	8/10	BC Bethune			8-11-81	A. ...
6 ELECTRICAL	WP-201	A. ...	M. D. ...	8/10	W. ...				
7 CADWELDS	WP-01	T. ...	M. D. ...	8/10	R. Breedlove			8-11-81	
8 BOP WELDING				8/10	J. ...				
9 CODE/SEISMIC WELDING									
10 CLEAN-UP	WP-05	J. C. Hyatt	M. D. ...	8-11	R. Breedlove				
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: 8:05 AM DATE: 8-11-81

DESIGN APPROVAL David Ryz DATE: 8/14/81 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-K 1K8XW 256004

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 S. Buzellone DATE 8-11-81

CONSTRUCTION INSPECTION SUPERVISOR M.D. Sealsy DATE 8-11-81

FOR INFORMATION ONLY

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. Brecklow

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents *

✓ Masonry ✓ CAR-2167-G-0630(R7)
✓ -0631(R7)

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

✓ 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°)

✓ FCR-C-2558 (Change C.J. @ A2. 315°)

✓ Reinforcing CAR-2167-G-0618(R6)

-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 mis-fabbed)

-0767(R2)

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

-0632(R3)

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

-0633(R3)

✓ DCN-530-805 ('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-9005-5,6,7,8,9,3

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

Other

Russell F. Brecklow

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL-
REQUIRED DRAWINGS

Placement Number ICBXW236004
Coordinates 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 (R5) ✓
- 0641 (R4) ✓
- 0650 (R4) ✓
- 0651 (R4) ✓
- 0652 (R0) ✓
- 0770 (R1) ✓
- 0634 (R3) ✓
- 0635 (R3) ✓
- 0761 (R4) ✓

Reinforcing

013 8-8-81
Embeds

- CAR-2168-G-601 (R6)
- ✓ -0229 (R14)
- ✓ -0230 (R16)
- ✓ -0231 (R18)
- ✓ -253501 (R3)
- ✓ -253502 (R4)
- ✓ -253503 (R3)
- ✓ -253504 (R3)
- ✓ -253508 (R2)

Penetrations

014 8-8-81
Dowels

Bar Bending

Other

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) ✓

PLACEMENT NO. 1CRXW256004 DATE 8-11-81 MODE OF PLACEMENT Scarf

LOCATION Contaminant Bldg #1

WEATHERS () CLEAR () OVERCAST () RAIN () OTHER
() BZZY () FOG () P. CLOUDY

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (7%)	AIR METER NO.	UNIT WT.	UNIT BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
											RESULTS:						
											DAY 7	DAY 28	DAY 28	DAY 28			
73456	9:45 AM	8	6	83	CP-L	6.8	CP-L 47678	CP-L	47678	01397	3820	55A0	5480	1	7740	1 Dry unit weight Cylinder Made	83
73474	11:40 AM	56	3 1/2	82	CP-L	7.0	CP-L 47678										

FIELD QA/QC INSPECTOR Dwain Milata DATE 8-11-81
LAB QA/QC INSPECTOR James Kelly DATE 9-8-81
QA/QC SPECIALIST Logan Kelly DATE 9-9-81

SLUMP REQUIRED 0-3 MAX IN. DESIGN MIX # USED M-80
AIR REQUIRED 4-8 % 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. 1CBXU284004 LOCATION Cont. #1 Ext. Wall
PLACED 8/11/81 A2. 315' to 46', el. 201' 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 DATE 8-25-81
CONSTRUCTION INSPECTION SUPERVISOR M.D. Sealey DATE 8-25-81