



A-21
10/22/84
50-400-OL

Applicants' Exhibit 21
Eddleman Contention 65
Docket No. 50-400

Pour Package
Placement 1CBSL216001

NUCLEAR REGULATORY COMMISSION

Docket No. 50-400 Official Exh. No. 21
In the matter of Heaton Harris

Staff _____ IDENTIFIED ☒
Applicant ☒ RECEIVED ☒
Intervenor _____ REJECTED _____
Cont'g Off'r _____
Contractor _____ 10-22-84
Other _____
Reporter Jw.

8412170341 841022
PDR ADOCK 05000400
G PDR

CONCRETE

PLACEMENT REPORT ONLY

CONCRETE
PLACEMENT
REPORT

SHAPP

FILE

PLACEMENT NUMBER

1CBSL216001

LOCATION (INCLUDE ELEV. IF IN SLOG)

UNIT 1 C.B. BASE MAT - WEST SIDE

30-DAY DATE

7-14-78

TYPE PLACEMENT

STRUCT. MAT

ESTIMATED QUANTITY

3020 YD³

90° AT 1-4"

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 checked="" type="checkbox"/>	WATER	<input type="checkbox"/>
BUCKET	<input checked="" type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input type="checkbox"/>
CONVEYOR	<input checked="" type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input checked="" type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input checked="" type="checkbox"/>
TRUCK	<input type="checkbox"/>	OUTSIDE EXTERIOR WALL						RUBBER FLOAT	<input checked="" type="checkbox"/>	NUCLEAR	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	EXPOSED AGGREGATE ON REMAINDER							<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

HOT WEATHER

COMMENT & CLARIFICATION TO PROPOSED METHOD

OUTSIDE EXTERIOR WALL ONLY
(SEE ACTION PLAN FOR THIS PLACEMENT)

PRIMARY MASONRY DWG. NO.

CAR-2167-G-0610 R6

SPEC. FINISH

DES. STRENGTH

4000 PSI

DESIGN MIX CODE

M44

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY Charles Hall TITLE A.E.

DATE 7/14/78

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			QUALITY CONTROL		QUALITY ASSURANCE		
	REF. PROC	CRFT SUPT	FIELD ENG	DATE	INSPECTOR	H	REF. PROC	DATE
1 CONTACT SURFACES	VP-5	JL	J.E.E.	7/14/78	TCG		WP-5	7-15-78
2 FORMS	VP-12	JL	J.E.E.	7/14/78	TCG		N/A	-
3 REINFORCING STEEL	WP-11	J.C.	J.E.E.	7/14/78	TCG		WP-11	7-15-78
4 EMBEDS	NA	NA	NA	7/14/78	TCG		N/A	-
5 MECHANICAL	N/A	NA	NA	7/14/78	TCG		N/A	-
6 ELECTRICAL	NA	NA	NA	7/14/78	TCG		N/A	-
7 CADWELDS	VP-1	J.C.	NA	7/14/78	TCG		VP-1	7-15-78
8 NDE	NA	NA	NA	7/14/78	TCG		N/A	-
9 CLEANUP	VP-5	JL	NA	7/14/78	TCG		VP-5	7-15-78
10 WATERSTOP	VP-12	JL	NA	7/14/78	TCG		VP-12	7-15-78
11								
12								
13								
14								

CONSTRUCTOR SIGNATURE (AREA SUPT)

TEH

DATE 7-15-78

QC SIGNOFF

TCG

DATE 7-14-78

O.A. SIGNOFF

A.R. Wright

DATE 7-15-78

DESIGN APPROVAL

TCG

DATE 7-15-78

TIME OF SET

7:00 AM

DATE PLACED

07-18-78

YDS CONCRETE

DELIVERED

3070

YDS NOT PLACED IN

THIS PLACEMENT

76

YARDS WASTED

76

YARDS GROUT

05

YDS PLACED IN

THIS PLACEMENT

2999

YARDS PLACED ELEV. ETC

00

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME Randy D. Boker

TITLE Construction Inspector

DATE 7/18/78

REMARKS (ATTACH RELEVANT REPORTS)

Work on cleanup until time of placement 7/18/78
Scheduled for Monday 7/17/78 7:00 AM
Cleanup to continue ahead of placement 7/17/78 5PM

000.560

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-KB51216001

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CB5L 216001

LOCATION Unit No. 1

Containment Building

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

QC INSPECTOR

Randy M. Shaw DATE 7/18/78

PRINCIPAL SITE CIVIL ENGINEER

L. Danna DATE 7/19/78

SKK

TP-21
Exhibit 1

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

Placement No. 1CB5L216001

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 Requets 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	Waterstop Tie-in to existing Waterstop in Fuel Handling Bldg. Wall 0° and 180° (Top and Bottom)	None	None Butt-splice approved by FCZ-180	Satisfactory	Randy G. Godwin
					Individual Notified: J.C. Hyatt
					Date 7/11/78
4	Waterstop Fuel Handling Wall Top Layer (0° - 151° - 50°)	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. Not completed 7/13/78	Satisfactory complete 7/14/78 3.5	Satisfactory	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 specification.	Final check was made prior to concrete placement G.W. 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

Placement No. ICBSL215001

Sheet: 4

Location Unit No. 1 Containment Building

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

ID.	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 D. 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 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 D. Collins
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. Collins
4	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) (Nuclear 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. Collins
5	Elevation 204 ft. Bottom Mat Circular Bars Radial Bar Curt 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. Collins Individual Notified: Frank Collins Date 6/14/78

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

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

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

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

FOR INFORMATION ONLY

Placement No. 1CB5L216001

Sheet 3 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-0- 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 (9' - 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, Jim Lathan Date 7/6/78
2	Elevation <u>216</u> Cylinder Wall Dowels - 2 nd Row, 3 rd Row, 5 th Row (30' - 15' - 15' - 5')	<u>None</u> Areas complete, no violations Work not complete as of 7/11/78.	Several violations noted and reported to General Foreman	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/11/78
3	Elevation <u>204</u> Shear Truss Bars	Not complete as of 7/12/78	Several Bars left out need to be corrected 7/12/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/12/78
	Elevation <u>216</u> Cylinder Wall Dowels all Rows including Vertical and Horizontal Bars	<u>None</u> All req'd bars in place.	Several areas flagged for spacing violations. General Foreman was notified. Not corrected 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
5	Elevation <u>216</u> Shear Truss Bars 21 quantity bars and 6 bars in Key Way.	<u>None</u> All req'd bars in place. (Reference Item 3)	<u>None</u> All areas corrected 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78

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

REVISION ONLY

Placement No. 1CB5L216001

Sheet 4 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2207-G-0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	CRACKING VIOLATIONS	QUALITY	INSPECTOR
1	Elevation 198 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 4:30 PM	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
2	Elevation 216 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. For To be corrected prior to tipping out of concrete.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
3	Elevation 216 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
	Elevation 216 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	Elevation 204 to 216 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. 1CT35L216 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 Sikafix Epoxy Cement	None	None	satisfactory	Randy G. Godwin Individual Notified: N/A Date: 5/24/78
3	Accidental Burning of Waterstop Location \pm 100' east 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 Cuthen 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 Cuthen Date: 7/17/78

SPK

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

Placement No. LCBSL216004

Location Unit No. 1 Containment Building

Drawings CSR-2107-C-0612 0613 0614 0615 0616 0617 0618 0619

Sheet: 1 of 4

FOR INFO ONLY

1.	INSPECTION LOCATION	QUANTITY VIOLATIONS	EXTENT VIOLATIONS	QUALITY	2. INSPECTION
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place	Two bars checked out of tolerance, but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Randy G. Gordon
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" of more. Future clearance to be 1/2" min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Randy G. Gordon
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	Final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Randy G. Gordon
	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint Between 15'-5" and 90' (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place	Several violations noted and discussed with General Foreman	<u>Satisfactory</u>	Stan Warmbro Foreman Individual Notified: 6/12/78 Randy G. Gordon
3	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Cont. Joint Between 15'-5" and 90' (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place	All violations corrected and checked out 6/13/78	<u>Satisfactory</u> SPK	Randy G. Gordon Individual Notified: Frank Collins Date 6/13/78

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

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

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

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

FOR INFORMATION
Sheet 3 of 4

Placement No. 1CB5L216004

Location Unit No. 1 Containment Building

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

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

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

Placement No. 1CB5L216004

Sheet 4 of 4

Location Unit No. 1 Containment Building

Drawings CAR-0167-C- 0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

	INSPECTION LOCATION	QUANTITY VIOLATIONS	BRACING VIOLATIONS	QUALITY	INSPECTION
1	Elevations 204 to 216 Final visual inspection made on entire placement. (0° - 151° 51')	<u>None</u> All req'd bars in place. All work performed in accordance with WP-11	<u>None</u> All areas which were flagged have been corrected. 6:00 AM 6/17/78	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78
2					Individual Notified: Date
3					Individual Notified: Date
4					Individual Notified: Date
5				SPK	Individual Notified: Date

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

Placement No. 1CBSL216005

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	DC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 0° to 65° Fuel Handling Wall Between Railets and bond of Membrane to waterstop.	Several Holidays Detected and patched in accordance with WIP-02.	None	Satisfactory	Randy G. Godwin Individual Notified: Stanley Carter Date 6/5/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikardiv Epoxy Cement	None	None	Satisfactory	Randy G. Godwin Individual Notified: N/A Date 5/24/78
3	Accidental Burning of Waterstop. Location ± 30°-10' const. Joint. Area to be cut out and patched.	Not corrected as of PM 6/21/78. Area not as bad as anticipated. Corrected 7/6/78			Randy G. Godwin Individual Notified: Jim Catkan 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 Catkan Date 7/17/78

SPK

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

FOR INFORMATION

Placement No. LCBSL216005

Page 1 of 3

Location Unit No. 1 Containment Building

DRAWINGS CR-2167-C-0612 0613 0614 0615 0616 0617 0618 / 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	CRITICAL VIOLATIONS	QUALITY	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 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 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 Randy G. Godwin
4	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Const Joint between 0' 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. Godwin Individual Notified: Frank Collins 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> SK	Randy G. Godwin Individual Notified: Stan Warmbrod Date 6/15/78

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

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

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

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

Placement No. 1CB5L216005

Location Unit No 1 Containment Building

Drawings CAF-2147-0-0612 0613 0614 0615 0616 0617 0618 0619

Sheet 3 of 3

FOR INFORMATION

INSPECTION LOCATION	CONCRETE VIOLATIONS	STEELING VIOLATIONS	QUALITY	INSPECTOR
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.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
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. Fireman was informed and stated that this would be done prior to Wall Dowl installation.	Satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrod Date 6/29/78
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.	Satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrod Date 7/6/78
Reference Item Nos. 1, 2, 3 and 4 on Sheet 4 of Placement Report No. 1CB5L216001. These Items are for Isometric Nos. 1CB5L216001, 004 and 005				Randy G. Godwin Individual Notified: N/A Date 7/14/78
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	Satisfactory ESK	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

POST PLACEMENT CHECKLIST

FOR INSPECTION ONLY
Exhibit 10 TB-15

PLACEMENT NO. ICBSL 216001

LOCATION Unit No 1

Containment Building

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

QC INSPECTOR

Randy D. Edwin

DATE 7/25/78

PRINCIPAL SITE CIVIL ENGINEER

[Signature]

DATE 7/25/78

PLACMENT NO. ICB 5246 001
LOCATION #1 Containment Bldg

REMARKS: (✓) TIME () BROADCAST () RATE ()
() DE () TO () P. CL.

(pump discharge) Test pt. 2

() OTHER

AMBIENT TEMP. 66 °F
THERMOMETER NO. M4448

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-14-2010 BY 60322 UCBAW

DATE 7-17-78
(Procedure CAC-11)

TIME NO.	TUB SAMPLED	DEPTH (FT)	BUCKET NO.	SPEED (FT)	CORR. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS	
											7 DAY	2 DAY	DAY		
24	11:05	10	12394	2	82	20448	5.7	147.8	147.8		4890	6470	6150	Set 1 LAB 1206	
23	11:35	10	12348	2 1/2	80		7.2								
30	12:25	10	12408	3 1/2	87		5.2		145.6	MISSOIA		4740	6080	5980	Set 3 1208
29	1:10	10	12419	2 1/4	81		6.2		148.4	MISSOIA		4850	6150	6265	Set 5 1210
22	1:35	10	12423	3 3/4	80		4.8								
25	2:30	10	12438	2 1/4	85		5.3								
24	3:00	10	12449	2 3/4	83		4.8		147.4	MISSOIA		5090	6440	6650	Set 6 1212
29	4:00	10	12458	3 1/4	82		5.2								
26	4:20	10	12468	3 1/4	84		4.8		146.6	MISSOIA		4530	6230	5980	Set 8 1214
24	5:10	10	12479	2 1/2	83		5.0								
23	5:45	10	12488	3	83		5.0		147.0	MISSOIA		4770	6440	6240	Set 10 1216
25	6:40	10	12498	3 1/2	82		5.0								

SLIP REQUIRED	4	1	1	in.	FIELD QC INSPECTOR	<u>Rickey Strickland</u>	DATE	<u>7-17-78</u>
AIR REQUIRED	6	1	2	in.	LAB QC INSPECTOR	<u>Steve Spencer</u>	DATE	<u>8-14-78</u>
DRUGS	<u>m-45 ed 56 60ml</u>				QA SPECIALIST	<u>Eugene Kelly</u>	DATE	<u>8-15-78</u>
DRUGS	<u>4000 p.p.</u>							

PLACEMENT NO.	ICBSX216001
LOCATION	# / Containment

DATE 7-17-78 (Procedure C-11)

AN INVITATION TO

LETTERS: (✓) CURE () OVERALL () FATH
 () H () L () D

pump discharge) Test pl. 2

AMBIENT TEMP. 82 °F

THERMOMETER NO. 00507

[illegible]

STREET LIGHTS

FIELD QC INSPECTOR

Bruce Proff

ALL RIGHTS RESERVED

LAB QC INSPECTOR

Arthur M. Webster

DESIGN NO. # 75-11-56 6W9 8-12-58

DESIGN STATION 4000 250

QA SPECIALIST

Eugene Kelly

8-15-78

CAROLINA POWER & LIGHT COMPANY
SHEARSTON BATTERY FILLAR POWER PLANT
CONCRETE TEST REPORT

FOR INFORMATION ONLY
AMBIENT TEMP. 73 °F
THERMOMETER NO. M4502

PLACEMENT NO. 1005216001
LOCATION #1 Confinement Bldg.
DATE 7-17-78
(pump discharge) Test pt 1
() DAY () NIGHT () P. CLARITY () OTHER

TEST NO.	TIME SAMPLED	CURED FOR (HRS)	FICKET NO.	SLURRY (IN)	CORC. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	DAY	
25	10:45	10	12319	3	80	M45027	5.6	M45072		119				
30	11:05	10	12313	1 1/2	80		5.1							
23	12:10	10	12403	2	80		5.1							
27	1:00	10	12413	3	80		5.1							Set 2 M45072 1207
23	1:35	10	12423	5 3/4	83		7.6							Set 4 1209
27	2:20	10	12433	2 1/4	83		4.4							Set 5A 1211
22	3:00	10	12443	2 3/4	82		4.5							
26	3:45	10	12453	3	83		4.2							Set 7 1213
22	4:15	10	12463	3	84		4.7							
28	5:00	10	12473	3 1/4	86		4.5							Set 9 1215
22	5:55	10	12483	2 1/4	86		4.5							
24	6:45	10	12493	4	86		5.4							Set 11 1217

SLEEP EQUIPPED 4 1 1 in.
AIR EQUIPPED 6 1 2 in.
DESIGNER M-45 17-56 CMW
DESIGNER SHEET 4002 psi
FIELD QC INSPECTOR John Holland DATE 7-17-78
LAB QC INSPECTOR Peter M. M. DATE 8-14-78
QA SPECIALIST Eugene Kelly DATE 8-15-78

PLACEMENT NO. 1CB56216001

LOCATION 1 Confinement Bldg

WEATHER: (✓) CLEAR () OVERCAST () FOG () P. CLOUDY
() H. () T. () F.

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

Pump discharge Test pt. 1

AMBIENT TEMP. 80 °F
THERMOMETER NO. 014507

TEST NO.	TIME SAMPLED	CURE AGE (DAYS)	CURE METHOD	SLUMP (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. (LB)	UNIT WT. (LB)	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	90 DAY	
26	7:00	10		3 3/4	81	m4507	m4501A	148.1	m4502A		4530	6190	5130	Set 13 1219
26	8:05	10		2 1/2	82									Set 15 1221
24	8:30	10		3 1/2	82									Set 17 1223
27	8:50	10		3 3/4	82			146.9	m4503A		4210	6400	6300	Set 19 1225
25	9:37	10		3 1/4	80			149.0	m4504A		4560	6550	6300	Set 21 1227
25	10:06	10		2 1/2	80									Set 22 1229
28	10:20	10		2 1/2	80			146.8	m4505A		4460	5980	5800	
28	11:22	10		4	82			150.0	m4506A		3470	5800	5660	
26	11:45	10		5	82									
24	12:20	10		4 1/4	80									
26	12:30	10		4 1/4	80									
27	12:50	10		3	80			150.0	m4507A		4210	5230	5520	

SLEEP REQUIRED 4 1 1 in.

AIR REQUIRED 6 1 2 in.

DESIGN MIX # m-56 M-56 6124 8-8-78

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Bruce Ford

LAB QC INSPECTOR Steve Marshall

QA SPECIALIST Cyren Kelly

DATE 7/18/78

DATE 8/15/78

DATE 8-17-78

QA-29
12/77
Rev. 1

CAROLINA FUEL LIGHT COMPANY
SHAWNEE HARBOR NUCLEAR POWER PLANT
CONCRETE TEST REPORT

Page 3 of 4

PLACEMENT NO. 10BSA216001
LOCATION # 1 Confinement Bldg.
DATE 7-18-78
WEATHER: () CLEAR () OVERCAST () RAIN () OTHER
() WINDY () FOG
PUMP DISCHARGE Test pt. 1
AMBIENT TEMP. 71 °F
THERMOMETER NO. M4507

TEST NO.	TIME SAMPLED	CURE TIME (HOURS)	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS		REMARKS
									7 DAY	28 DAY	
30	1:10	10	2 1/2	80	M4507	M4507A					Set 23 1229
27	1:25	10	2 1/2	80			149.1		4460	5980	Set 23 1229
23	1:45	10	3 1/2	78							
29	2:10	10	2 3/4	80			147.7		4770	5840	Set 24 1230
24	2:20	10	3 1/4	80							
22	2:40	10	3 1/4	82			146.4		4530	5800	Set 25 1231
28	2:50	10	3 1/2	80							
30	3:10	10	3 1/4	80			147.4		4390	6400	Set 26 1232
29	3:30	10	2 1/2	80							
23	3:40	10	2 3/4	80			146.9		4740	5550	Set 27 1233
29	4:00	10	2 3/4	80							
26	4:20	10	2 1/2	80			147.1		4460	5380	Set 28 1234

SLEW REQUIRED 4 1/1 in.
AIR REQUIRED 6 1/2 in.
DESIGN MIX # M-45 M-56 60W 8-1-78
DESIGN STRENGTH 4000 psi
FIELD QC INSPECTOR Bauer & Sipe DATE 7/18/78
LAB QC INSPECTOR Steve Mendenhall DATE 8/15/78
QA SPECIALIST Eugene Kelly DATE 8-17-78

PLACEMENT NO. 1035A 216001 DATE 7-18-78 (Procedure CQC-10)
 LOCATION #1 Containment Bldg (pump discharge) Test pit
 WEATHER: (X) CLEAR () OVERCAST () RAIN () OTHER () P. CLOUDY
 AMBIENT TEMP. 70 °F
 THERMOMETER NO. 114507

TIME NO.	TIME SAMPLED	EQUIPMENT USED	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
										DAY	3 DAY	7 DAY	
28	4:40	10	12672	4	80	114507	4.4	149.8		3360	5700	5130	Set 29 1235
25	5:00	10	12674	6 1/4	80		4.7	148.7		4240	6050	6120	Set 30 1236
26	5:20	10	12679	3	80		6.5		+10				Set 31 1237
27	5:35	10	12684	3	80		4.2						Set 32 1238
25	6:05	10	12691	2	80		4.9						
27	6:30	10	12694	2 1/4	79		5.0			4170	5040	5090	
23	7:30	10	12699	2 1/2	79		5.0						

SLEEP REQUIRED 4 1 1 in.
 AIR REQUIRED 6 2 %
 DESIGN MIX # 11-45 11-56 6mw 8-8-78
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Bruce T. Fike DATE 7/18/78
 LAB QC INSPECTOR Steve M. Kistner DATE 8/15/78
 QA SPECIALIST Eugene Kelly DATE 8-17-78