DOCKETED
NOV 27 1984
DOCKETING & SERVICE BRANCH
SECY-NRC

A-14
10/22/84
50-400-OL

Applicants' Exhibit 14
Eddleman Contention 65
Docket No. 50-400

Pour Package
Placement 1CBXW290001

NUCLEAR REGULATORY COMMISSION

Docket No. _____ Official Exh. No. 14
In the matter of Shearon Harris
Staff _____ IDENTIFIED ✓
Applicant ✓ RECEIVED ✓
Intervenor _____ REJECTED _____
Cont'g Off'r _____
Contractor _____ DATE 10-22-84
Other _____ Witness _____
Reporter _____

8412170306 841022
PDR ADOCK 05000400
Q PDR

FORM NO. 1767
Rev. 8
12/82

CP&L
SHNPP

Exhibit 1
WP-05

CONCRETE PLACEMENT REPORT

FILE

PLACEMENT NUMBER: 1CBXW29[illegible]

PRECHECKOUT DATA BY PLACING ORGANIZATION

LOCATION (INCLUDE ELEV. IF IN BLDG.): CONTAINMENT #1 EL 290

SCHEDULED DATE: 7/23/82

TYPE PLACEMENT: EXT. WALL

ESTIMATED QUANTITY: 35 c.y.

[illegible]

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF		UNFORMED SURF	
BUGGY	☐	CHUTE	☐	INTERNAL	☒	STEEL TROWEL	☐	FORMS ALONE	☒	WATER	☒
BUCKET	☐	TREMIE	☒	FORM	☐	WOOD FLOAT	☐	TARPS	☐	WET BURLAP	☐
CONVEYOR	☐	DROP or	☒		☐	HAIR BRUSH	☐	INSULATION	☐	POLYETHYLENE	☐
PUMP	☒		☐			BROOM FINISH	☐	FORMS & WATER	☐	CURING COMPOUND:	
TRUCK	☐					RUBBER FLOAT	☐		☐	KUREZ	☐
	☐					EXP AGG & OR Rough Concrete	☒			NUTEC 10	☐
										QUAD CURE	☐
										GALLONS REQUIRED	

SERVICE COND.: MILD
PROTECTION: EXTENDED
CURE (DAYS): 7

ANTICIPATED WEATHER CONDITIONS: HOT

COMMENT & CLARIFICATION TO PROPOSED METHODS: EXT. WALL FROM AZ 240° TO 300° C EL 286.83 TO 289.83' RN

PRIMARY MASONRY DWG. NO.: 2167-G-0631 R-7

RATE OF RISE: 2'/HR

DES. STRENGTH: 5.0 KSI

DESIGN MIX CODE: M-721

NAME, TITLE, PERSON SUBMITTING ALL THE ABOVE BY: [signature] TITLE: A.E. DATE: 7/16/82

PRE-PLACEMENT CHECKOUT

	PRE-PLACEMENT CHECKOUT	CONSTRUCTOR REF. PROC.	CRAFT SUPT.	FIELD ENG.	CONST. INSPECTION DATE	INSPECTOR	H	QUALITY ASSURANCE Q.C. SIGNOFF	DATE	Q.A. SIGNOFF
1	CONTACT SURFACES	WP-05	[signature]	[signature]	7-23	R. Breedlove	N/A		[signature]	[signature]
2	FORMS	WP-22	[signature]	[signature]	7-23	R. Breedlove	N/A		[signature]	[signature]
3	REINFORCING STEEL	WP-11	[signature]	[signature]	7-23	R. Breedlove	N/A		[signature]	[signature]
4	EMBEDS	—	[signature]	[signature]	7-23	R. Breedlove	N/A		[signature]	[signature]
5	MECHANICAL EMBEDS / PIPE	WP-102	[signature] / [signature]	[signature]	7/22/82	[signature]	N/A		7/22/82	[signature]
6	ELECTRICAL	WP-201	[signature]	[signature]	7/22/82	[signature]				
7	CADWELDS	WP-01	[signature]	[signature]	7-23	R. Breedlove	N/A	[signature]	7-23-82	
8	BOP WELDING				7-23	[signature]				
9	CODE/SEISMIC WELDING						N/A	[signature]	7-22-82	
10	CLEAN-UP	WP-05	[signature]		7-23	R. Breedlove	N/A		7-21-82	[signature]
11										
12										

CONSTRUCTOR SIGNOFF (AREA SUPT): R. L. Spears TIME: DATE: 7-23-82

C.I. SIGNOFF: Russell J. Breedlove TIME: 10:00AM DATE: 7-23-82

DESIGN APPROVAL: [signature] DATE: 7/23/82

TIME OF START: 10:30

DATE PLACED: 07-23-82

POST PLACEMENT

YDS. CONCRETE DELIVERED: 43

YDS PLACED IN THIS PLACEMENT: 42

YARDS WASTED: CONCRETE 02; GROUT 02

YARDS GROUT DELIVERED: 03

CONCRETE: 41

GROUT: 1

YARDS PLACED ELSEWHERE: CONCRETE 0; GROUT 0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Russell J. Breedlove TITLE: RLB 7-23-82 C.I. DATE: 7-23-82

REMARKS (ATTACH RELEVANT REPORTS)

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

000566

[illegible] ONLY

Rev. 7
7/81

Exhibit 1
TP-15

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBX029CCC1 LOCATION Cont. #1 Ext. Wall
#2 240° to 360°

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat.	RLB
Rate of Placement	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 Placement was very smooth and sat.

* One concrete worker warned several times about vibration techniques.

CONSTRUCTION INSPECTOR Russell N. Rawlins DATE 7-23-82

CONSTRUCTION INSPECTION SUPERVISOR [signature] DATE 7-27-82

FOR INFORMATION ONLY

Rev. 4
9/80

Exhibit I TP-22
Sheet 3 of 22

CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

FIELD INSPECTION REPORT FOR REINFORCING STEEL-
REQUIRED DRAWINGS

Placement Number 1CBXW290001

Coordinates Az. 240° to 350°

Elevation 286'10 to 289'10

C.I. Review Russell L. Breedlove [signature] FG, Area Engineer Review [signature]

Drawings Required/Revision:		Affecting Documents
✓ Masonry	CAR-2167-C-0630(R7)	FCR-C-2632 (Lapping #6 Shear & Face Bars) ✓
	-0631(R7)	FCR-C-716 (Tolerance on Shell Liner) ✓
		PW-C-2900 (Liner Plate out-of-tolerance) ✓
		PW-C-1958 (Rebar 'deadman' NDE requirements) ✓
✓ Reinforcing	CAR-2167-C-0637(R4)	FCR-C-1427 (Crack control steel) ✓
	-0652(R0)	PW-C-3116 (Additional verticals misspaced) ✓
	-0633(R3)	RCI-C-625 (Clarification of crack control steel) ✓
	-0650(R4)	RCI-C-595 & -589 (Discrepencies between prints) ✓
	-0651(R4)	FCR-C-3399 (Excess wall thickness & cover) ✓
	-0635(R3)	FCR-AS-1730 (Bent Studs on penetration) ✓
	-0763(R5)	PW-C-3406 (Rejected Cadweld) ✓
	-0765(R5)	✓ Bethlehem Steel Corp (Reinforcing) Prints
	-0639(R5)	8099-31(R2) ✓ -45(R2) ✓
Embeds		-39(R5) ✓ -43(R4) ✓
		-42(R2) ✓ -44(R2) ✓
		-35(R2) ✓ -61(R1) ✓
		-34(R3) ✓
Penetrations & Liner	CAR-2167-C-0631(R7)	-60(R3) ✓
	CAR-2168-C-229(R14),	FCR-C-2938 (Changes "B" to "T" series cadweld)
	-230(R15), -233&4(R3)	RCI-C-609 (Masonry dimensions for Cont. #1)
✓ Dowels	CAR-2167-C-0619(R6)	Computer Printout Reviewed
		Daily Document Log Checked
✓ Bar Bending	CAR-2167-B-9005-3,5,6,7,8,9	Document Control Contacted
Other		Russell L. Breedlove 7-23-82

Rev. 0
9/80

Exhibit 11
TP-22

Sh. 4 of 22

CONT NMENT EXTERIOR WALL INSPECTION SUMMARY SHEET

PLACEMENT NO. 1CBxW290001

INSPECTOR Russell J. Brueillone DATE 7-22-82

FIELD ENGINEER [signature] DATE 7/22/82

See individual sheets

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Az. 240° to 300°	VERTICALS					
	ROW 1	83	83			
El. 286'10 to 289'10	ROW 2	7	7			
	ROW 7	7	7			
	ROW 8	76	76			
	HORIZONTALS					
	ROW 3	5	5			
	ROW 4	5	5			
	ROW 9	5	5			
	ROW 10	5	5			
	ADDITIONAL PER DWG.					
	HORIZONTAL	3	3	As per -0651		
	VERTICAL					
	DIAGONAL					
	ROW 5	14	14			
	ROW 6	RWS 7-22-82 ~~13~~ 14	18	4 extra bars - BARS DESIGNED TO DEE AT EL 226 BUT EXTENDED INTO DOOR		OK D. Bryan
	ADD. PENETRATION					
	STEEL / VERTICAL	42	42			
	HORIZONTAL	1	1			
	DIAGONAL					
	FACE BARS	49	49	Some lap spliced	FCR-C-2632 D. Bryan	D. Bryan
	RADIAL BARS					
	INNER	14/14/14	14/14/14			
	OUTER	14/14	14/14			
	RING BARS					
	SHEAR BOLT ASSEMBLY					
	OTHER					
	Shear Bars:					
	Both. Per (3)	2x48	2x48		OK D. Bryan	
	(2)	4x110	4x110	on Add'l Horizonals, No 72 extra bars Congestion	NONE	D. Bryan
	CC-90+'s	5[illegible]	~~56~~ 125 RWS 7-22-82	Some lap spliced	FCR-C-2632	D. Bryan
	Add'l Steel in 13" gaps	✓	✓		D. Bryan	

[illegible] ONLY

Rev. 1
9/80

Exhibit 8
TP-22
Sh. 5 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290001
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0637(R4)
Bethlehem Print 8099-31(R2)

INSPECTOR Russell F. Bradlow DATE 7-19-82
FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
33	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			1st Row Verticals 240° to ℄ S-1			
Bethlehem Bars: "B"						
CC-250 ✓	18	18		None	None	N/A
CC-269 ✓	2	2				
CC-251 ✓	2	2				
B-250 ✓	1	1				
B-237 ✓	1	1				
B-236 ✓	1	1				
B-235 ✓	1	1				
B-233 ✓	1	1				
B-231 ✓	1	1				
B-241 ✓	1	1		No cadwelder no. Bad cadweld	[signature] ~~FCR-AS-173~~ DW-C-3406 7/23/82	D. Bryan
B-240 ✓	1	1	℄ S-1 to ℄ S-2			
B-226 ✓	1	1				
B-228 ✓	1	1				
B-229 ✓	1	1				

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 6 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2147-G-0637(R4)
Bethlehem Print 8099-31(R2)

INSPECTOR Russell L. Ercollone DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD PENETRATION STEEL HOR./VERT/DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
15	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars #8						
B-230 ✓	1	1	1st Row Verticals ℄ S-1 to ℄ S-2 (cont)	None	None	N/A
B-249 ✓	1	1				
B-225 ✓	1	1				
B-224 ✓	1	1				
B-223 ✓	1	1				
B-222 ✓	1	1				
B-220 ✓	1	1				
B-241 DH ✓	1	1				
B-240 DH ✓	1	1	℄ S-2 to ℄ S-3			
B-214 ✓	1	1				
B-216 ✓	1	1				
B-217 ✓	1	1				
B-218 ✓	1	1				
B-219 ✓	1	1				
B-248 ✓	1	1				

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 7 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBX2240001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-CT-DL37(RU)
Bendingm Drint 3049-31(R2)

INSPECTOR Russell L. Brecklow DATE 7-9-82

FIELD ENGINEER [illegible] DATE 7/10/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 2,7,8	HORIZONTALS ROW 3,4,9, 0	ADD. PER DWG. HCR/VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HCR/VERT/DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
23	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)		DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Between Bars="B" B-213	✓	1	1	1st Row Verticals @ S-2 to @ S-3 (CCW)	None	None	N/A
B-212	✓	1	1				
B-211	✓	1	1				
B-209	✓	1	1				
B-241 DM	✓	1	1	↓			
B-240 DM	✓	1	1	@ S-3 to 300°			
B-200	✓	1	1				
B-202	✓	1	1				
B-204	✓	1	1				
B-206	✓	1	1				
B-207	✓	1	1				
B-208	✓	1	1				
B-237	✓	1	1				
CC-250	✓	8	8				
CC-269	✓	2	2	↓	↓	↓	↓

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 8 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBxW290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2142-CC-0637(R4), -0642(R0)

INSPECTOR Russell L. Breedlove DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
12/7	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CC-251 ✓	3	3	1st Row Verticals ℄ 5-3 to 300° (cont.)	None	None	N/A
CC-324 ✓	1	1				
CC-271 ✓	1	1				
CC-312 ✓	2	2				
CC-270 ✓	1	1				
CC-263 ✓	1	1				
CC-314 ✓ CC-392	1	1				
CC-313 ✓ CC-~~[illegible]~~ 793 [illegible]	1	1				
CC-311 ✓ CC-392	1	1				
CC-250 ✓	7	7	2nd Row Verticals	None	None	N/A

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 9 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290C01
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0033(R3)

INSPECTOR Russell A. Bradley DATE 7-19-82
FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
0	5/5	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			3rd Row Horiz. 240° to 300°			
CC-29 ✓	1	1	Add'l	None	None	N/A
CC-1, CC-7 ✓	1	1				
CC-29 ✓	1	1	Add'l			
CC-1, CC-7 ✓	1	1				
CC-1, CC-7 ✓	1	1				
			4th Row Horiz. 240° to 300°			
CC-30 ✓	1	1	Add'l	None	None	N/A
CC-2, CC-8 ✓	1	1				
CC-30 ✓	1	1	Add'l			
CC-2, CC-8 ✓	1	1				
CC-2, CC-8 ✓	1	1				

FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 10 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO.

Bethlehem Drive 9099-38(RS)

INSPECTOR [signature] DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
0	0	0	14	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			5th Row Diagonals 240° to S-1			
Bethlehem Bars "B"						
B-552 ✓	1	1	↓	None	None	N/A
B-551 ✓	2	2	↓	↓	↓	↓
B-550 ✓	1	1	↓	↓	↓	↓
B-553 ✓	3	3	↓	↓	↓	↓
B-570 CD to B-559 ✓	1	1	↓	↓	↓	↓
B-573 CD to B-560 ✓	1	1	S-1 to S-2	↓	↓	↓
B-574 CD to B-559 ✓	1	1	↓	↓	↓	↓
B-577 CD to B-560 ✓	1	1	S-2 to S-3	↓	↓	↓
B-578 CD to B-567 ✓	1	1	↓	↓	↓	↓
B-587 ✓	1	1	S-3 to 300°	↓	↓	↓
B-581 CD to B-564 ✓	1	1	↓	↓	↓	↓
~~B-563~~ KLB 7-23-82						

FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 11 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW29000

DRAWING NUMBER
BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-42(R-2)

INSPECTOR Russell L. Breedlove DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
0	0	0	14	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 13 B-632 ✓	~~2~~ 1	1	Left Row Diagonals 240° to S-1	None	None	N/A
B-601 CD to B-633 ✓	1	1				
B-602 CD to B-633 ✓	1	1				
B-605 CD to B-634 ✓	1	1	S-1 to S-2			
B-635 ✓	1	1				
B-608 CD to B-609 ✓	1	1	S-2 to S-3			
~~B-632~~ RLB 7-19-82 ✓	~~1~~					
B-612 CD to B-636 ✓	1	1				
B-632 ✓	5	5				
B-637 ✓	1	1				
B-630	0	1	Extra			
B-631	0	2		Extra Bars	None	D. Bryan
#19	0	1		DESIGNED TO DIE AT EL 236 BUT EXTENDED INTO POUR		
B-632	1	1				

OK D. Bryan

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 12 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 108x120 220/01

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CA2-2107-C-D1502(Rev)
Bend Diagram Drwg 9040-3151(R2)

INSPECTOR Kenneth J Brouillard DATE 7-14-82
FIELD ENGINEER [illegible] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD PENETRATION STEEL HOR/VERT/DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR SCLT. ASSEMBLIES	OTHER
7/29	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CC-720 ✓	1	1	7th Row Verticals 240° to 300°	None	None	N/A
CC-801 ✓	6	6	↓	↓	↓	↓
Benchmen Bars "B" CC-719 ✓	16	16	8th Row Verticals 240° to S-1	None	None	N/A
CC-721 ✓	2	2				
CC-720 ✓	2	2				
B-197 ✓	1	1				
B-190 ✓	1	1				
B-189 ✓	1	1				
B-187 ✓	1	1				
B-185 ✓	1	1				
B-183 ✓	1	1				
B-196 ✓	1	1	↓			
B-176 ✓	1	1	S-1 to S-2			
B-178 ✓	1	1	↓	↓	↓	↓

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 13 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW29000

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-C-5630(R4)

Bethlehem Print 5099-35(R2)

INSPECTOR [signature] DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
15	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars="3" B-180 ✓	1	1	8th Row Verticals S-1 to S-2 (cont.)	None	None	N/A
B-181 ✓	1	1				
B-182 ✓	1	1				
B-175 ✓	1	1				
B-174 ✓	1	1				
B-173 ✓	1	1				
B-171 ✓	1	1				
B-195 ✓	1	1				
B-194 ✓	1	1	S-2 to S-3			
B-166 ✓	1	1				
B-168 ✓	1	1				
B-169 ✓	1	1				
B-170 ✓	1	1				
B-165 ✓	1	1				
B-164 ✓	1	1				

FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 14 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CRX1D290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2147-G-[illegible](RN)

Bechtel Dwg. No. 9021-[illegible]

INSPECTOR [signature] DATE 7-14-82

FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,0	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR SCLT. ASSEMBLIES	OTHER
26	0	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)		DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bechtel Dwg 9021-[illegible] "B"							
B-163	✓	1	1	5th Row Verticals S-2 to S-3 (cont.)	None	None	N/A
B-161	✓	1	1				
B-159	✓	1	1				
B-193	✓	1	1				
B-150	✓	1	1	S-3 to 300°			
B-152	✓	1	1				
B-154	✓	1	1				
B-156	✓	1	1				
B-157	✓	1	1				
B-158	✓	1	1				
B-192	✓	1	1				
B-191	✓	1	1				
CC-719	✓	10	10				
CC-721	✓	2	2		[illegible]		
CC-720	✓	2	2				

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 15 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0650(R4), -0651(R4)
Bethlehem Print 5044-34(R3), -60(R3), -45(R2)

INSPECTOR [signature] DATE 7-14-82
FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
6	0	0	0	3 / 1	49	0	0	0	544

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CC-818	2	2	8th Row Verticals 5-3 to 300°(cont.)	None	None	N/A
CC-817	1	1				
CC-314 CD to CC-909	1	1				
CC-313 CD to CC-771	1	1				
CC-311 CD to CC-909	1	1				
CC-924	RLB 7-20-82 ~~4~~ 3	3	Add'l Horizonals from -0651	None	None	N/A
Bethlehem Bars 3	48x2	48x2	Shear Bars			
2	4x110	4x110				
CC-904	56	128 ~~56~~ RLB 7-22-82		72 extra bars Some lap spliced	None-no correction FCR C-2632 [signature]	D Bryan
Bethlehem Bars 43	2x4	2x4	Face Bars Vert. Haunch	Lap Spliced		
42	3	3	Horiz. Haunch			
Bethlehem Bars 156 CD to 157	1	1	Part Embedded Add'l Horiz	None	None	N/A
Bethlehem Bars 46	2x8	2x8	Face Bars Face of blister	Lap Spliced	FCR-C-2632 [signature]	D. Bryan
48	22	22				

FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 16 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1 CBxW290991

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0635(R3)

INSPECTOR [signature] DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
0	5/5	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			9th Row Horizontals 240° to 300°			
CC-445 ✓	1	1	Add'l	None	None	N/A
CC-400, CC-496 ✓	1	1				
CC-445 ✓	1	1	Add'l			
CC-400, CC-496 ✓	1	1				
CC-400, CC-496 ✓	1	1				
			10th Row Horiz. 240° to 300°			
CC-446 ✓	1	1	Add'l	None	None	N/A
CC-~~409~~ 401, CC-~~495~~ 455 ✓ R-3 7-19-82	1	1				
CC-446 ✓	1	1	Add'l			
CC-401, CC-455 ✓	1	1				
CC-401, CC-455 ✓	1	1				

FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 17 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBX[illegible]

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-[illegible]

Bethlehem Print 5044-43(44)

INSPECTOR [illegible] DATE 7-19-82

FIELD ENGINEER [illegible] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
0	0	0	0	8	0	14/14/14	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			Inner Radial Layers 1st - Rad. = 66'1 2nd - Rad = 67'2 3rd - Rad = 68'3¼			
Bethlehem Bars 10A	1x3	1x3	@ S-1	None	None	N/A
8	2x3	2x3	↓	↓	↓	↓
9	2x3	2x3	↓	↓	↓	↓
8	2x3	2x3	@ S-2	↓	↓	↓
9	2x3	2x3	↓	↓	↓	↓
8	2x3	2x3	@ S-3	↓	↓	↓
9	2x3	2x3	↓	↓	↓	↓
10	1x3	1x3	↓	↓	↓	↓
Bethlehem Bars 1	2x2	2x2	Add'l Verts. R = 67'5½	None	None	N/A
1	2x2	2x2	R = 67'11½	↓	↓	↓

FOR INFORMATION [illegible]

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 18 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBxW2900D1

DRAWING NUMBER
BAR BENDING SCHEDULE NO. 1AR-2117-2-07,3 (RB)
Bethlehem Bars 9099-#1,82)

INSPECTOR [signature] DATE 7-19-82
FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR SCLT ASSEMBLIES	OTHER
0	0	0	0	4	0	14	0	0	0

INSPECTED ITEM (BAR MARK(S))		DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars				4± Layer Radials R=69'5½ Allow 'deadman'		[signature]	
10	✓	1	1	② S-1	NDE Requirements for 'deadman' deleted	PWC-1958	D. Bryan
9	✓	2	2	↓			
7	✓	2	2	↓			
9	✓	2	2	② S-2			
7	✓	2	2	↓			
9	✓	2	2	② S-3			
7	✓	2	2	↓			
10	✓	1	1	↓			
39	✓	1	1	Add'l Verts R=71'0			
41	✓	1	1	↓			
40	✓	1	1	↓			
38	✓	1	1	↓			
					✓ FOR INFORMATION	✓	

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 19 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION CB&W 240001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. C2R-2107-(3-5)1/2 3 (RB)
Bethlehem Drwg 90X19-W0(R3)

INSPECTOR Lawson L. Brewton DATE 7-10-82
FIELD ENGINEER [illegible] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SPEAR SCLT. ASSEMBLIES	OTHER
0	0	0	0	0	0	14	0	0	0

INSPECTED ITEM (BAR MARKS)		DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars				5th Layer Radials R=70.667" All w/ headmen		D Bry	
15	✓	1	1	@ S-1	NDE requirements for 'headmen' deleted	PW-C-1958	D. Bryan
14	✓	1	1				
9	✓	1	1				
8	✓	1	1				
13	✓	1	1				
11	✓	1	1	@ S-2			
7	✓	2	2				
10	✓	1	1				
12	✓	1	1	@ S-3			
8	✓	1	1				
9	✓	1	1				
14	✓	1	1				
15	✓	1	1	✓	✓	✓	✓
					FOR INFORMATION ONLY		

Rev. 1
9/80

Exhibit 8
TP-22

Sh 20 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. Bethlehem Print 5049-61(R1)

INSPECTOR [signature] DATE 7-19-82

FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
0	0	0	0	14	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars			Add'l Verticals Rad = 70'0		[signature]	
251 ✓	1	1		Incorrect Spacing	PW-C-3116	D. Bryan
250 ✓	1	1		NOE Requirements for 'deadmen' deleted	PW-C-1458	
252 ✓	1	1			[signature]	
254 ✓	1	1				
283 ✓	1	1				
282 ✓	1	1				
281 ✓	1	1				
280 ✓	1	1				
279 ✓	1	1				
278 ✓	1	1				
277 ✓	1	1				
276	1	1				
275	1	1				
274 ✓	1	1				

Rev. 1
9/80

Exhibit 8
TP-22

Sh. 21 of 22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

PLACEMENT NO./LOCATION 1 CBXW 290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO.
Bethlehem Print 8099-61(R1)

INSPECTOR [signature] DATE 7-19-82
FIELD ENGINEER [signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
0	0	0	0	16	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
273	1	1	Add'l Verticals Rad. = 70'0 (cont.)	Incorrect Spacing	DW-C-3116 [signature]	D. Bryan
272	1	1		NDE Requirements for 'deadmen' deleted	DW-C-1458 [signature]	
271	1	1				
270	1	1				
269	1	1				
268	1	1				
267	1	1				
266	1	1				
265	1	1				
264	1	1				
263	1	1				
262	1	1				
251	2	2				
250	2	2				

FOR INFORMATION ONLY

Rev. 1
1/81

Exhibit 1
TP-05

CAROLINA POWER & LIGHT COMPANY
SHNPP
FIELD INSPECTION REPORT FOR EMBEDDED PLATES, PENETRATION, AND ANCHOR BOLTS

PLACEMENT NO. 1CBxw:240001 PAGE 22 OF 22
DRAWING & REV. GAC-2167-G-0631(R7); -2169-G-229(R14); -230(R15); -253504(R3)

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (1 OR 11, AB-4, PENETRATION) SIZE, DESIGN QTY., ETC.	DISCREPANCIES RELATED TO TYPE, SIZE, LOCATION, INSTALLATION, DESIGN QTY. VS ACTUAL QUANTITY, DIMENSIONS, ETC.	CORRECTIVE ACTION DR, PW, FCR, DCN ETC.	INSPECTOR / INDIVIDUAL NOTIFIED / DATE
EMBED PLATES					
PENE-TRATION	S-70 ℄ Az. 294°15' ℄ El. 290.0'	1 Penetration 10¢ Type II (Partially embedded)	(4) Nelson Stud Connectors Bent	FCR-AS-1730 D. Bryan	D. Bradley D. Bryan 7-23-82
ANCHOR BOLTS					
OTHER					

FOR INFORMATION ONLY

Rev. 2
12/81

TP-24 R/6
Exhibit 2

CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

EMBEDDED PIPING INSPECTION FORM

PLACEMENT NO. 1CBXW-290-001 *

DRAWING(S) (NO. & REV.) 2167-G-631 R/7

2168: N/A 2165-G-064 R/9

2165-G-115 R/4

Checklist (✓)Acceptable (U) Not Acceptable
(N/A)Not Applicable

Item Inspected	Verify Location Check	Verify Leak Test	Inspect Connections (Non-Welded)	Inspect For Damage	Piping Anchored & Sealed	Other (Specify)

Q A RECORDS
RECEIVED
SEP 22 1982
SHEARON HARRIS Q A UNIT

COMMENTS: * From Az 240° to 300°

No EMBEDED PIPE

REVIEWED BY QA

SIGNED/INITIALS 9-31-82 DATE

C.I. Inspector [signature] Date 7-22-8

C.I. Supervisor Walter J. Gibbs Date 7-26-8

1CBXW290-001

Rev. 9
7/82

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

Exhibit 2
TP-15

PLACEMENT NO. 1CBXW290001 LOCATION Cont. #1 Ext Wall

PLACED 7-23-82 SURFACE AREA N/A

END OF CURE 7-30-82 CURE COMPOUND (AMOUNT) N/A

CURE/PROTECTION REQUIREMENTS Special Loading / Extended Protection / 7 days moist cure

CHECKLIST	REMARKS	INITIALS
FINISH		
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
FORMS		
Form & Shoring Removal	Complete except for seismic gap	RLB
REPAIRS		
Type of Repair Required	☑ Cosmetic ☐ Structural ☑ Forms Still In Place in seismic gap	RLB
EMBED PLATES W/SCREW-IN-STUDS		
Thread Engagement	N/A	RLB
SEISMIC GAP		
Proper Gap Maintained	Forms still in place in gap	RLB

CURING/PROTECTION	EXTENSIONS	REMARKS	
A. Water ✓	N/A	Sat - 7 days moist cure	RLB
B. Curing Compound	N/A	N/A	RLB
C. Ponding	N/A	N/A	RLB
D. Burlap	N/A	N/A	RLB
E. Wet Sand	N/A	N/A	RLB
F. Polyethlylene	N/A	N/A	RLB
G. Temperature /	N/A	Sat - 7 days ≥ 80°F	RLB

COMMENTS:

CONSTRUCTION INSPECTOR Russell L. Breedlove DATE 8-16-82

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

FOR INFORMATION ONLY

QA-24
2/81
Rev. 0

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

Page 1 of 1

Jack 8-24-82

PLACEMENT NO. 1CBXW290001 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 (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS RESULTS DAY 7	DAY 28	DAY 28	DAY	SET NO.	LAB #	REMARKS
87605	10:45 AM / PM	8	4	86	CP&L 49698	5.8	CP&L 4854	140.1	CP&L 4854	CP&L D1C98	3470	* 4180	* 4950		1	9260	NC2 & C505 ISSUED
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																
	: AM / PM																

SLUMP REQUIRED 0-4 MAX in.

AIR REQUIRED 4-8 %

DESIGN MIX # USED M-72

DESIGN STRENGTH FOR PLACEMENT 5000 PSI

FIELD QA/QC INSPECTOR Ricky Stinebond DATE 7-23-82

LAB QA/QC INSPECTOR [signature] DATE 8-23-82

QA/QC SPECIALIST Eugene Kelly DATE 8-24-82

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
$\boxed{9265}$	$\boxed{4865}$	$\boxed{4790}$
9323	4105	—
9397	5400	—

EVALUATION: IN ACCORDANCE WITH CAR-SH-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 5,000 PSI.

3. THE 28 DAY STRENGTH IS CONSIDERED A FAILURE FOR NOT MEETING CRITERION NUMBER TWO.

Eugene Kelly

QA-2
2/81
Rev. 0

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT

NONCONFORMANCE REPORT
(Procedure CQC-2)

NCR No. C508
Page 1 of 1

Item/Activity Name or Description	Shop Order	Code Class	Quantity	Unit	Quality Assurance Number (Purchase Order & Item)
COMPRESSIVE STRENGTH	N/A	Q	N/A	1	QA- N/A

Serial, Heat or Other Identification No. (Specify)	Supplier or Manufacturer	Type of Procurement
1CBXW290001	SHNPP	☐ CP&L PO ☐ Transfer ☐ A-E PO N/A ☐ NSSS PO

Violation (Specification, Drawing, Procedure or Other)	Reporting QA/QC Inspector (Signature)
AR-SH-CH-6, SEC. I, PARA. 13.5a	[signature]

Nonconformance Details:

TEST CYLINDER SET #1 FOR CONCRETE PLACEMENT 1CBXW290001 PLACED 7-23-82 FAILED TO MEET THE REQUIREMENTS FOR SATISFACTORY COMPRESSIVE STRENGTH. SEE ATTACHED CONCRETE TEST REPORT AND EVALUATION FOR DETAILS. THE RESERVE CYLINDER HAS BEEN SCHEDULED FOR A 90 DAY TEST.

EVALUATED PER AP-IX-16
☑ NOT REPORTABLE
☐ REPORTABILITY TRAVELER INITIALED

Eugene Kelly — QA/QC Specialist — 9-21-82 Date

Corrective Action & Disposition Details: (Attach supporting documentation)

Placement 1CBXW290001 is acceptable as-is, see PW-C-3769.

James R. Paul for McKay — (Signature) — 9/21/83 9/21/83 Date

Distribution:

Original: BILL SEYLER (Discipline Engineer)
cc: Director QA/QC - SHNPP
Senior Resident Engineer
Issuing QA/QC Specialist
BYRD ISOM
Other: GEORGE SIMPSON

Disposition Verified:

[signature] — QA/QC Inspector — 9-22-83 Date

Disposition Accepted:

Donald Sugg — QA/QC Specialist — 9-22-83 Date

-24
781
ev. 0

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

Page 1 of

JLK 8-24-82

PLACEMENT NO. 1CBXW29000X/1 DATE 7-23-82 MODE OF PLACEMENT Pump

LOCATION South of Waste Processing

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

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS RESULTS DAY 7	DAY 28	DAY 28	DAY	SET NO.	LAB #	REMARKS
87605	10:45 AM / PM	8	4	86	CPM 4968	5.8	CPM 4854	140.1	CPM 4854	CPM 01C98	3470	* 4180	* 4950		1	9265	N.C.R # C-505 ISSUED. 353
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																
	AM / PM																

SLUMP REQUIRED 0-4 MAX in.

AIR REQUIRED 4-8 %

DESIGN MIX # USED M-72

DESIGN STRENGTH FOR PLACEMENT 5000 PSI

FIELD QA/QC INSPECTOR Ricky Stinebrud DATE 7-23-82

LAB QA/QC INSPECTOR Jerry Cate DATE 8-23-82

QA/QC SPECIALIST Eugene Kelly DATE 8-24-82

COMPRESSIVE STRENGTH EVALUATION

PLACEMENT # ICBXWZ90001

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-SH-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 5,000 PSI.

③ THE 28 DAY STRENGTH IS CONSIDERED A FAILURE FOR NOT MEETING CRITERION NUMBER TWO.

AFF-C 1
Rev. 16
2/4/82

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

AP-IX-05
Exhibit 1

~~[illegible]~~/PW -C- 3769

Page 1 of ~~3~~ 4 12/1/82

Type of Request:

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

ORIGINAL

- [ ] Non-ASME
- [ ] ASME Section III Division 1
- [x] ASME Section III Division 2
- [x] Q
- [ ] Non-Q

Nonconformance [ ] No [x] Yes Report No. NCR-C-508

Identification of Area and Item: Low Concrete Compression Cylinder Breaks 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. 289.83'. The actual average 28 day cylinder strength (laboratory moist cured) for this placement was 4965 psi. See attached Concrete test Report.

Recommended Action:

- [ ] Please Investigate and Resolve
- [x] Please Resolve as Follows

Accept the placement as-is.

RECEIVED
DOCUMENT CONTROL
SEP 17 1983
SHEARON HARRIS N.P.

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

Requested by:

W.C. Pridgen — Discipline Engineer — 12/1/82 Date

Site Approval: CATEGORY I

Bill Seyler for MFT — Senior Resident Engineer — 12/1/82 Date

APF-001
Rev. 18
2/4/82

AP-IX-05
Exhibit 4

[redacted]/PW-C-3769

Design Organization Approval ☐ AE ☐ NSSS ☒ NPED Only ☐ Other

Telephone Resolution ☐ Yes ☐ No

Design Organization Attachments ☐ Yes ☐ No

☐ Approved as Recommended ☐ Rejected ☐ Conditional Approval

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

Comments:

Signature Title Date Signature Title Date

MINOR CHANGE, NO VERIFICATION NEEDED

CP&L Harris Plant Engineering Approval

HPES Attachments ☑ Yes ☐ No

☑ Approved as Recommended ☐ Rejected ☐ Conditional Approval

TEST BREAKS ARE ATTACHED.

[signature] 9/16/83 [signature] FOR JFNEVILL 9/16/83

Discipline Engineer Date MHPE or PPE Date

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) W. O. Fridgen (Copy)

(Copy) S. R. Holmes (Copy)

Implementation Completed as Approved? ☒ Yes ☐ No

Comments:

James R. Paul 9/21/83

Discipline Engineer Date

Final Distribution:

(Original) File in Doc. Control (Copy)

(Copy) (Copy)

(Copy) (Copy)

-24
'81
sv. 0

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

Page 1

JLK 8-24-82

PLACEMENT NO. 1CBXW29000X DATE 7-23-82 MODE OF PLACEMENT Pump

LOCATION South of Waste Processing

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

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS RESULTS DAY 7	DAY 28	DAY 28	DAY	SET NO.	LAB #	REMARKS
					CPSL 49698	5.8	CPSL 4854	140.1	CPSL 4854	CPSL 01C98	3470	* 4780	* 4950		1	9265	N.C.R. & C. ISSUED
8265	10:45 AM	8	4	86													
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																

353

SLUMP REQUIRED 0-4 MAX in.
AIR REQUIRED 4-8 %
DESIGN MIX # USED M-72
DESIGN STRENGTH FOR PLACEMENT 5000 PSI

FIELD QA/QC INSPECTOR Ricky Stinebrad DATE 7-[illegible]-82
LAB QA/QC INSPECTOR Jerry Cates DATE 8-[illegible]-82
QA/QC SPECIALIST Eugene Kelly DATE 8-[illegible]-82

FW-C-3769 Sheet 4 of 4

COMPRESSIVE STRENGTH EVALUATION

PLACEMENT # ICBXWZ90001

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-SH-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 5,000 PSI.

③ THE 28 DAY STRENGTH IS CONSIDERED A FAILURE FOR NOT MEETING CRITERION NUMBER TWO.

HPES ATTACHMENT
TO PW-C-3769

CAROLINA POWER & LIGHT COMPANY -
SHEARON HARRIS NUCLEAR POWER PLANT

Date Placed 7-23-82 Placement No. ICBXW290001

TEST RESULTS

Compression Machine CAL M-43105

CORE IDENTIFICATION	AGE	DATE TESTED	TOTAL LOAD, LBS.	DIA. INCHES	CAPPED LENGTH INCHES	AREA SQ. IN.	L/D	P.S.I.	CORRECTION FACTOR	CORRECTED P.S.I.
1	7	8-8-83	10,900	1.74	8.25	2.38	4.7	4580	-	-
2	7	8-8-83	5,800	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. Watts DATE 8-8-83

QA SPECIALIST Donald Suggs DATE 8-8-83

HPES ATTACHMENT TO PW-C-3769

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Date Placed _____ Placement No. ICBXW290001

TEST RESULTS

Compression Machine CRLM-43105

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

REMARKS _____

LAB INSPECTOR Wendell J. Watts DATE 8-23-83

QA SPECIALIST Albert Pell DATE 8-25-83