



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 Eddleman Harris

Staff \_\_\_\_\_ IDENTIFIED ☒

Applicant ☒ RECEIVED ☒

Intervenor \_\_\_\_\_ REJECTED \_\_\_\_\_

Cont'g Off'r \_\_\_\_\_

Contractor \_\_\_\_\_ DATE 10-22-84

Other \_\_\_\_\_ Witness \_\_\_\_\_

Reporter Jur

8412170306 841022  
PDR ADOCK 05000400  
G PDR

12/82

CONCRETE  
PLACEMENT  
REPORT

CP21

SHNPP

Exhibit 1

WP-09

FILE

PLACEMENT NUMBER

1 CB X W 29 010101

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONTAINMENT #1 51 290

SCHEDULED DATE

7/23/92

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

35 cu yd

TEMPERATURE

50-90°F

WIND SPEED

1-10 mph

MOON

100%

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

FORMS

TRANSPORTING

PLACING

VIBRATION

FINISHING

FORMED SURF

UNFORMED SURF

BUGGY

☐

CHUTE

☐

INTERNAL

☒ STEEL TROWEL☐ FORMS ALONE☒ SAEET BURLAP

BUCKET

☐

TREMIE

☒

FORM

☐ WOOD FLOAT☐ TARPS☐ POLYETHYLENE

CONVEYOR

☐

DROP

☒

HAIR BRUSH

☐☐ INSULATION☐ CURING COMPOUND

PUMP

☒

BROOM FINISH

☐☐☐ FORMS & WATER☐ KUREZ

TRUCK

☐

RUBBER FLOAT

☐☐☐☐ NUTEC 10

SERVICE COND. MILD

PROTECTION EXTENDED

CURE (DAYS) 7

EXPOSED SURF

Rough Concrete

GALLONS REQUIRED

ANTICIPATED WEATHER

CONDITIONS HOT

COMMENT &amp; CLARIFICATION TO PROPOSED METHODS

EXT. WALL PLAN A-22 TO 10' 30' C.E.L.

PRIMARY MASONRY DWG. NO.

2167-G-0631 R-7

RATE OF RISE

2' / HR

226.83 TO 289.23' AN

DES. STRENGTH

5,0 KSI

DESIGN MIX CODE

M-121

NAME, TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: David R. [Signature] TITLE: A.E.

DATE: 7/16/92

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	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
2 FORMS	WP-32	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
3 REINFORCING STEEL	WP-11	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
4 EMBEDS	WP-11	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
5 MECHANICAL	WP-102	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
6 ELECTRICAL	WP-201	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
7 CADWELDS	WP-01	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
8 BOP WELDING	WP-01	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
9 CODE/SEISMIC WELDING	WP-01	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
10 CLEAN-UP	WP-05	W. [Signature]	7-23	R. Breudlow	MA	[Signature]	7-23	[Signature]
11								
12								

CONSTRUCTOR SIGNOFF (AREA Supt.)

R. L. [Signature]

TIME:

DATE: 7-23-92

CL. SIGNOFF

Russell S. Breudlow

TIME: 10:00 AM

DATE: 7-23-92

DESIGN APPROVE:

[Signature]

TIME OF START

DATE: 7/23/92 10:30

DATE PLACED

07-23-92

YDS. CONCRETE

DELIVERED

1413

YDS PLACED IN

THIS PLACEMENT

42

YARDS WASTED

CONCRETE

0.3

YARDS GROUT

DELIVERED

03

CONCRETE

GROUT

41

YARDS PLACED

CONCRETE

0.2

ELSEWHERE

GROUT

0

0

ACCEPTANCE OF PLACEMENT METHODS &amp; COMPLETENESS OF ABOVE INFORMATION

NAME Russell S. Breudlow

TITLE: 7-23-82 C.I.

DATE: 7-23-92

REMARKS (ATTACH RELEVANT REPORTS)

\* Remaining on site for access - 6 P.M.'s 240 to 300' - Resurveyed &amp; set RLB 7-24-92

FOR INFORMATION ONLY

000566

Rev. 7  
7/81

Exhibit 1  
TP-15

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBX0290001

LOCATION Cont. #1 Ext. Wall

At 240' to 300'

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

Ronald V. R. Wellen

DATE 7-23-82

CONSTRUCTION INSPECTION SUPERVISOR

Robert L. Long

DATE 7-27-82

FOR INFORMATION ONLY

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

Placement Number 1 CBXW390001

Coordinates A2. 240° to 035°

Elevation 286'10 to 284'10

C.I. Review Russell J. Bredclaw M. J. Bredclaw <sup>FC</sup> Area Engineer Review J. Bredclaw

Drawings Required/Revision:

Affecting Documents

Masonry

CAR-2147-C-0630(R7)

-0631(R7)

FCR-C-2632 (Lapping #4 Shear & Face Bars) -

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

PW-C-2960 (Liner Dist. out-of-tolerance) -

PW-C-1958 (Rebar 'deadmen' NDE requirements) -

Reinforcing

CAR-2147-C-F-237(R4)

-0652(R0)

-0633(R3)

-0650(R4)

-0651(R4)

-0635(R3)

-0763(R5)

-0765(R5)

-0639(R3)

FCR-C-1427 (Crack control steel) -

PW-C-3114 (Additional Verticals misspacing) -

RCI-C-625 (Clarification of crack control steel) -

RCI-C-545 & 559 (Discrepancies between prints) -

FCR-C-3399 (Excess wall thickness & cover) -

FCR-AS-1730 (Rebar Studs on penetration) -

PW-C-3406 (Rejected Cadweld) -

✓ Bethlehem Steel Corp (Reinforcing) Prints

8099-31(R2) ✓ -45(R2) ✓

-39(R3) ✓ -43(R4) ✓

-42(R2) ✓ -44(R2) ✓

-35(R2) ✓ -61(R1) ✓

-34(R3) ✓

-60(R3) ✓

Embeds

Penetrations CAR-2147-C-0631(R7)

1-2-80

CAR-2147-C-229(R14)

-230(R15); -233(R4)(R3)

FCR-C-3234 (Change 2" 4" T" concrete thickness)

RCI-C-609 (Measuring dimensions for Cent. #1)

Dowels

CAR-2147-C-0619(R4)

Computer Printout Reviewed

Daily Document Log Checked

Bar Bending

CAR-2147-B-9005-33, 4, 7, 8, 9

Document Control Contacted

Other

Russell J. Bredclaw 7-23-82



# CONT NMENT EXTERIOR WALL INSPECTION SUMMARY SHEET

Sh. 4 of 22

PLACEMENT NO. 1CBXW240001

INSPECTOR Russell J. Brundage

DATE 7-22-92

FIELD ENGINEER Walter S. Fedor

DATE 7/22/92

See individual sheets

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
A2. 240° to 300° B. 285°10' to 299°10'	VERTICALS					
	ROW 1	83	83			
	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 -0451		
	VERTICAL					
	DIAGONAL					
	ROW 5	14	14			
	ROW 6	25 7-32-92 +314	19	4 extra bars - BARS DESIGN TO DEC AT EL 226 BUT EXTENDED INTO P.W.R.		OK D. Brown
	ADD. PENETRATION					
	STEEL / VERTICAL	42	42			
	HORIZONTAL	1	1			
	DIAGONAL					
	FACE BARS	49	49	Some lap spliced	FOR 7-26-92 D. Brown	
	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			
	(2)	4x110	4x110	on Add'l Horizontal, No 72 extra bars suggested	NONE	D. Brown
	CC-40+'s	5/2	5/2	Some lap spliced	FOR 7-26-92 D. Brown	
	Add'l Steel in 3' gaps	✓	✓			

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# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22  
Sh. 5 of 22

PLACEMENT NO./LOCATION 1 CBX-2200001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2147-G-0437(R4)

Bethlehem Print 8099-31(R2)

INSPECTOR Kevin J. Bruckner

DATE 7-19-82

FIELD ENGINEER John J. Bruckner

DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ACC. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ACC. PENETRATION STEEL HOR./VERT./DIAG	FACE/RADIAL BARS BARS INNER/CUTER	RING BARS	SPEAR SCLT ASSEMBLES	OTHER
33	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 E 5-1					
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						
<u>on</u> B-241 ✓	1	1		No cad welder no. Bad cad weld				
<u>on</u> B-240 ✓	1	1	E 5-1 to E 5-2					
B-226 ✓	1	1						
B-228 ✓	1	1						
B-229 ✓	1	1						

# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22

Sh. 6 of 22

PLACEMENT NO./LOCATION 1022290001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2147-G-0637(R4)

Bethlehem Ditar 8099-31(R2)

INSPECTOR Kenneth L. Breckelmeier

DATE 7-19-82

FIELD ENGINEER Mike Glick

DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 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 INNER/OUTER	RADIAL BARS	RING BARS	SHEAR ASSEMBLIES	SOFT 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
Joiner Bars = 8						
B-230 ✓	1	1	1st Row Verticals E S-1 to E 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 ✓	1	1				
B-240 ✓	1	1	E S-2 to E 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				

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Exhibit 8  
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# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Sh. 7 of 22

PLACEMENT NO./LOCATION 103X2240001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CA2-2147-Cr-CL37(R4)

Bentleyham Print 40491-31(R2)

INSPECTOR James L. Brecklow

DATE 7-9-82

FIELD ENGINEER Michael J. [Signature]

DATE 7/10/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 12, 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	SPEAR ASSEMBLES	SOFT BOLTS	OTHER
03	0	0	0	0	0	0	0	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED				
Bentleyham Bars "B"										
B-213 ✓	1	1	1st Row Verticals E5-2 to E5-3 (cont.)	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	E5-2 to 3000							
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								



DATE 7/19/83

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CC-251 ✓ 3	3	3	1st Row Verticals Q5-3 to 300°(cont.)	None	None	N/A
CC-324 ✓ 1	1	1				
CC-271 ✓ 1	1	1				
CC-312 ✓ 2	2	2				
CC-270 ✓ 1	1	1				
CC-263 ✓ 1	1	1				
CC-314 ✓ 1 CC-392	1	1				
CC-313 ✓ 1 CC-393 MAR 7-1974	1	1				
CC-311 ✓ 1 CC-392	1	1				
CC-250 ✓ 7	7	7	2nd Row Verticals	None	None	N/A



FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 10 of 22

PLACEMENT NO./LOCATION 103xw)290001

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Drive 9094-38(25)

INSPECTOR Kenneth L. Bruckner

DATE 7-19-92

FIELD ENGINEER

DATE 7/10/82

DESIGN QUANTITIES PER SHEET

VERTICALS/HORIZONTALS		ADD. PER DWG.		DIAGONALS		ADD. PENETRATION STEEL		FACE/RADIAL BARS		RING		SPECIAL BCL		OTHER	
ROW 1,2,3		ROW 3,4,9,10		ROW 5,6		HOR./VERT/DIAG.		BARS INNER/OUTER		BARS		ASSEMBLES			
0		0		14		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												
Batches Bars: B															
B-552 ✓	1	1					None		None		N/A				
B-551 ✓	2	2													
B-550 ✓	1	1													
B-553 ✓	3	3													
B-570 CO to B-559 ✓	1	1	✓												
B-573 CO to B-560 ✓	1	1	S-1 to S-2												
B-574 CO to B-554 ✓	1	1	✓												
B-577 CO to B-560 ✓	1	1	S-2 to S-3												
B-578 CO to B-567 ✓	1	1	✓												
B-587 ✓	1	1	S-3 to 3000												
B-581 CO to B-564 ✓	1	1	✓				✓		✓		✓				
<del>B-565</del> ✓	<del>1</del>	<del>1</del>													
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FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Exhibit 8  
TP-22

Sh. 110422

PLACEMENT NO./LOCATION 103xw29000

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Revelation Draft 8099 - 2(2-2)

INSPECTOR Russell J. Brecklow

DATE 7-19-82

FIELD ENGINEER

DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS		HORIZONTALS		ACC. PER DWG.		DIAGONALS		ACC. PENETRATION STEEL		FACE RADIAL BARSTRINGS		SHEAR BOLTS/STIFFENERS	
ROW 2,7,8		ROW 3,4,9,10		HOR./VERT.		ROW 5,6		HOR./VERT./DIAG.		BARS		INNER/OUTER BARS ASSEMBLIES	
0	0	0	0	14	0	0	0	0	0	0	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION		DISCREPANCIES		CORRECTIVE ACTION		INDIVIDUAL NOTIFIED				
Balkham Run 173 B-632 ✓ $\frac{3}{2} \frac{1}{2}$ 21	1	1	Left Row Diagonals 240° to S-1		None		None		N/A				
B-601 CO to B-633 ✓	1	1	↓										
B-602 CO to B-633 ✓	1	1	↓										
B-605 CO to B-634 ✓	1	1	S-1 to S-2										
B-635 ✓	1	1	↓										
B-608 CO to B-609 ✓	1	1	S-2 to S-3										
<del>B-632</del> <del>CO to B-634</del> ✓	1		↓										
B-612 CO 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. Brown				
#18	0	1	↓		DESIGNER TO DIG AT EL 236 BUT EXTENDED INTO PIER								
B-632	1	1	↓										



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Exhibit 8  
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FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 120722

PLACEMENT NO./LOCATION 103X1220001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. 042-2147-2-0650/24

Bentham Print 9094-35122

INSPECTOR

Russell L. Greenlaw

DATE 7-14-82

FIELD ENGINEER

W. J. [Signature]

DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 2, 7, 3	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 BCL. ASSEMBLES	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 2400 to 3000	None	None	N/A			
CC-801 ✓	6	6	✓	✓	✓	✓			
Bentham Bars: "B"									
CC-719 ✓	16	16	8th Row Verticals 2400 to 5-1	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	5-1 to 5-2						
B-178 ✓	1	1	✓	✓	✓	✓			

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# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22

Sk. 13 of 22

PLACEMENT NO./LOCATION 1CBK-220001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. BAR-2107-G-0650(RH)

Bethlehem Prior 5022-35(R2)

INSPECTOR

Richard J. Braddock

DATE 7-19-82

FIELD ENGINEER

[Signature]

DATE 7/25/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ACC. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ACC. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SPEAR ASSEMBLES	SCOT 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	8 <sup>1</sup> / <sub>2</sub> 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

FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 14 of 22

PLACEMENT NO./LOCATION 102X12290601

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CA2-2147-2--D14RD(R2)

Rechnungskom. D. Nr. 2041-35/02

INSPECTOR Wesley L. Bruckner

DATE 7-19-82

FIELD ENGINEER

DATE 7/20/22

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ACC. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ACC. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RACIAL BARS INNER/OUTER	RING BARS	SPEAR BOLT ASSEMBLES	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			
B-163	✓ 1	1	8 1/2 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							
CC-720	✓ 2	2							

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# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22

Sh. 18 of 22

PLACEMENT NO./LOCATION 108XW390001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. (AK-2147-2-0000/04) - (045/24)

Bechtelchem Plant 5044-34 (23) - 00 (23) - 45 (23)

INSPECTOR James J. Breckelme

DATE 7-14-92

FIELD ENGINEER John J. Breckelme

DATE 7/20/92

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,3	HORIZONTALS ROW 3,4,9,10	ADD PER DWG. HCR / VERT.	DIAGONALS ROW 5,6	ADD PENETRATION STEEL HCR / VERT / DIAG	FACE RADIAL BARS BARS INNER/OUTER	RING BARS	SHEAR SCLTY OTHER ASSEMBLES	
6	0	0	0	3 / 1	49	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 ✓ CO to CC-909	1	1						
CC-313 ✓ CO to CC-771	1	1						
CC-311 ✓ CO to CC-909	1	1						
CC-924 ✓	218 7-20-92 43	3	Add'l Horizontals from -0651	None	None	N/A		
Bechtelchem Bars 3	48x2	48x2	Shear Bars					
2	4x110	4x110						
CC-904 ✓	56	128 <del>56</del> 208		72 extra bars Some lap spliced	None - no correction FOR C-2032	D. Bryon		
Bechtelchem Bars 43	2x4	2x4	Face Bars Vert. Haunch	Lap Spliced				
42	3	3	Horiz. Haunch					
Bechtelchem Bars 186 CO to 147	1	1	Part Embedded Add'l Horiz	None	None	N/A		
Bechtelchem Bars 46	2x8	2x8	Face Bars Face of blister	Lap Spliced	FOR C-2032	D. Bryon		
48	22	22						

FOR INFORMATION ONLY



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# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22

Sh. 10 of 22

PLACEMENT NO./LOCATION 1 CBXW240991

DRAWING NUMBER

BAR BENDING SCHEDULE NO. BAR-2107-A-0035 (23)

INSPECTOR Donald J. Enckeloye

DATE 7-19-82

FIELD ENGINEER Robert J. Enckeloye

DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 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 INNER / OUTER	RADIAL BARS RING	SPEAR BOLT ASSEMBLES	OTHER
0	5/5	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			2 <sup>nd</sup> Row Horizontal 240° to 300°			
CC-445 ✓	1	1	Add'l	None	None	N/A
CC-400, CC-445 ✓	1	1				
CC-445 ✓	1	1	Add'l			
CC-400, CC-445 ✓	1	1				
CC-400, CC-445 ✓	1	1		✓	✓	✓
			10 <sup>th</sup> Row Horiz. 240° to 300°			
CC-446 ✓	1	1	Add'l	None	None	N/A
401 455 CC-400, CC-445 ✓ R-3 7-19-82	1	1				
CC-445 ✓	1	1	Add'l			
CC-401, CC-445 ✓	1	1				
CC-401, CC-445 ✓	1	1		✓	✓	✓

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 17 of 22

PLACEMENT NO./LOCATION 10340240501

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CR-2117-12-07/23/25

Beethoven Op. 5044-43 (44)

INSPECTOR Russell F. Braddock

DATE 7-19-82

FIELD ENGINEER

DATE 7/20/53

DESIGN	QUANTITIES	PER	SHEET
--------	------------	-----	-------

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ACC. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ACC. PENETRATION STEEL HOR./VERT./DIAG.	FACE RADIAL BARS BARS INNER/OUTER	RING BARS	SPEAR SOLT ASSEMBLES	OTHER
0	0	0	0	8	0	14/14/14	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED		
			Inner Radial Bars 12' - Rad. = 6' 1" 24' - Rad. = 6' 2" 32' - Rad. = 6' 3 1/4"					
Bentham Bars								
10A	✓ 1	1x3	1x3	@ 5-1	None	None	N/A	
8	✓ 1	2x3	2x3	✓				
9	✓ 1	2x3	2x3	✓				
8	✓ 1	2x3	2x3	@ 5-2				
9	✓ 1	2x3	2x3	✓				
8	✓ 1	2x3	2x3	@ 5-3				
9	✓ 1	2x3	2x3	✓				
10	✓ 1	1x3	1x3	✓	✓	✓		✓
Bentham Bars								
1	✓ 1	2x2	2x2	Add'l Verts. D = 6' 7 5/8"	None	None	N/A	
1	✓ 1	2x2	2x2	D = 6' 7 11/16"	✓	✓		✓
FOR INFORMATION ONLY								

FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 18 of 32

PLACEMENT NO./LOCATION 1CBx-2900D1

DRAWING NUMBER

BAR BENDING SCHEDULE NO. 1A2-2017-12-07/3(RB)

Estimate: \$700.00 (22)

INSPECTOR

DATE 7-19-52

FIELD ENGINEER

DATE 7/20/82

DESIGN	QUANTITIES	REF	SHEET
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VERTICALS	HORIZONTALS	ACC. PER DWG.	DIAGONALS	ADD PENETRATION STEEL	FACE RACIAL BARS	RING	SHEAR BOLT	OTHER	
ROW 1,2,7,8	ROW 3,4,9,10	HOR./VERT.	ROW 5,6	HOR./VERT/DIAG.	BAFS	INNER/OUTER	BAFS	ASSEMBLES	
0	0	0	0	4	0	14	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
Bottom Reinforcing Bars			4th Layer Radials R=69' 3 1/2 All w/ 'deadmen'		J. Br				
10	✓ 1	1	② S-1	NDE Requirements for 'deadmen' deleted	PW-C-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 '1 Verts R= 71' 0						
41	✓ 1	1	↓						
40	✓ 1	1	↓						
38	✓ 1	1	↓						
FOR INFORMATION									

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FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Sh. 19 of 22

PLACEMENT NO /LOCATION 10340290001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CA2-21127-(3-5)12.3(25)

Quelchem Print 8049-60(23)

INSPECTOR

Lucas H. Brecklow

DATE 7-14-82

FIELD ENGINEER

DATE 7 / 20 / 8

DESIGN	QUANTITIES	PER	SHEET
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VERTICALS		HORIZONTALS		ACC. PER DWG.	DIAGONALS	ACC. PENETRATION	STEEL	FACE	RADIAL BARS	RING	SPEAR	SOL.	OTHER
ROW 1,2,7,8	ROW 3,4,9,10	HOR./VERT.	ROW 5,6	HOR./VERT./DIAG.	BARS	INNER/OUTER	BARS	ASSEMBLES					
0	0	0	0	0	0	0	14	0	0	0			
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED							
Bolted Bars			5th Layer Radials R=70.667' All w/ defects										
15	✓ 1	1	② S-1	NDE requirements for 'decimen' deleted	PW-C-1958	D. Bryan							
14	✓ 1	1											
9	✓ 1	1											
8	✓ 1	1											
13	✓ 1	1											
11	✓ 1	1	② S-2										
7	✓ 2	2											
10	✓ 1	1											
12	✓ 1	1	② S-3										
8	✓ 1	1											
9	✓ 1	1											
14	✓ 1	1											
15	✓ 1	1											
FOR INFORMATION ONLY													



Rev. 1  
9/80

# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Exhibit 8  
TP-22

Sh 20 of 22

PLACEMENT NO./LOCATION 108XW290601

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Drent 3049-61(4)

INSPECTOR Michael J. Bredt

DATE 7-19-82

FIELD ENGINEER Michael J. Bredt

DATE 7/27/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 12,7,8	HORIZONTALS ROW 3,4,9,0	ADD. PER DWG. HOR/VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR/VERT/DIAG.	FACE RADIAL BARS BARS INNER/OUTER	RING BARS	SPEAR BOLT ASSEMBLIES	OTHER
0	0	0	0	14	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars			Add'l Verticals Rd. = 70'0			
231 ✓	1	1		Incorrect Spacing	PW-C-3116	D. Bryan
230 ✓	1	1		NDE Requirements for 'deadmen' deleted	DW-C-1458	
252 ✓	1	1				
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				

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FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
PENETRATION STEEL

Exhibit 8  
TP-22

Sh. 21 of 22

PLACEMENT NO /LOCATION 1 CBXW 220001

DRAWING NUMBER

BAR SENDING SCHEDULE NO.

Reithelheim Print 9099-51621

INSPECTOR

DATE 7-14-82

FIELD ENGINEER

DATE 7/26/66

DESIGN QUANTITIES PER SHEET

VERTICALS/HORIZONTALS		ADD PER DWG.		DIAGONALS		ADD. PENETRATION STEEL		FACE/RADIAL BARS		RING		SHEAR BOLT OTHER	
ROW 1,2,7,8	ROW 3,4,9,10	HOR./VERT.		ROW 5,6		HOR./VERT./DIAG.		BARS	INNER/CUTER	BARS		ASSEMBLES	
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				DWG-3116 J. Ray		D. Brown		
272	1	1			NDE Requirements for 'deadmen' deleted				DW-C-1445				
271	1	1							J. Ray				
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

CAROLINA POWER & LIGHT COMPANY  
SHNPP

Exhibit 1  
TP-05

FIELD INSPECTION REPORT FOR EMBEDDED PLATES,  
PENETRATION, AND ANCHOR BOLTS

PLACEMENT NO. 15344240001 PAGE 22 OF 22  
DRAWING & REV. 320-2127-6-0231(27) - 2129-6-229(214) - 230(215) - 253404(23)

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE-(10R11, 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 E Az. 294.75' E El. 290.0'	1 Penetration 10F Type II (Partially embedded)	(4) Nelson Stud Connectors Bent	FCR-AS-1730  D. Bryan	D. Bryan  7-23-82
ANCHOR BOLTS					
OTHER					

FOR INFORMATION

235-G-115 e/4

(U) Not Acceptable

Q & A RECORDS  
REGENT  
SEP 22 1992  
REGENT  
SEP 22 1992

ALB. EMBELLISHED DIDE

BY QA

DATE \_\_\_\_\_

C.I. Supervisor Walter J. Gula Date 7-20-57

1CBXW 290.00



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 EA WJ11  
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	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	N/A	Sat - 7 days, $\geq 50^{\circ}\text{F}$

COMMENTS:

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

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

FOR INFORMATION

PLACEMENT NO.

DATE 7-23-82

### MODE OF PLACEMENT

Ch

LOCATION South of Waste Processing

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

[illegible]

SLIMP REQUIRED D-4 MAX 10.

DESIGN MIX # USED M-72

FIELD  
QA/QC  
INSPECTOR

Richs Strickland

DATE 7-23-82

**AIR REQUIRED**

150005

LAB QA/QC INSPECTOR

Young City

DATE 8-23-82

4-8-7.

FOR PLACEMENT

QA/QC SPECIALIST

DATE - 24-8-2

# Compressive Strength Evaluation

Placement # 1CBW290001

Mix # 72, 5000 PSI

LAB #	AVERAGE 28 DAY STRENGTH, PSI.	RUNNING AVERAGE OF THREE, PSI.
8176	5635	5180
8381	5040	4670
<div>9265</div>	<div>4865</div>	<div>4790</div>
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.

Eugene Kelly

QA-2  
2/81  
Rev. D

CAROLINA POWER & LIGHT COMPANY  
CORPORATE QUALITY ASSURANCE DEPARTMENT

NONCONFORMANCE REPORT  
(Procedure QC-2)

NCR No. 508  
Page 1 of 1

Item/Activity Name or Description	Shop Order	Code Class	Quantity	Unit	Quality Assurance Num: (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		
1CBXW 290 001	SHNPP		<input type="checkbox"/> CP&L PO <input type="checkbox"/> Transfer <input type="checkbox"/> A-E PO <input type="checkbox"/> NSSS PO		
Violation (Specification, Drawing, Procedure or Other)			Reporting QA/QC Inspector (Signature)		
AR-3H-CH-6, SEC. I, PARA. 13.5 a			[Signature]		

Nonconformance Details:

TEST CYLINDER SET #1 FOR CONCRETE PLACEMENT  
1CBXW 290 001 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  
EVALUATED PER AP-IX-16 TEST.

☒ NOT REPORTABLE  
☐ REPORTABILITY TRAVELER INITIALED

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

Corrective Action & Disposition Details: (Attach supporting documentation)

Placement 1CBXW 290 001 is acceptable as-is, see PW-C-3769.

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:

James R. Paul 9/21/83  
(Signature) Date  
Joe C. 9-22-83  
QA/QC Inspector Date

Disposition Accepted:

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



MODE OF PLACEMENT Pump

PLACEMENT NO. 1CBXW290004 DATE 7-23-82

LOCATION South of Waste Processing

WEATHER: ( ) CLEAR ( ) OVERCAST ( ) RAIN ( ) OTHER  
( ) HAZY ( ) FOG

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (°F)	AIR METER NO.	UNIT WT.	UNIT BUCKET	SCALE NO.	TEST CYLINDERS RESULTS				SET NO.	LAB #	REMARKS
											DAY	DAY	DAY	DAY			
8765	12:45 AM	8	4	86	CPM 4765B	CPM 4854	CPM 4854	CPM 4854	CPM 4854	CPM 4854	7	25	28	30	1	9265	NC. R. # C-505 ISSUED.
	1:00 PM																
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	12:00 AM																

FIELD QA/QC INSPECTOR Ricky Stubbins DATE 7-23-82  
LAB QA/QC INSPECTOR Angie Catf DATE 8-23-82  
QA/QC SPECIALIST Edward Kelly DATE 8-24-82

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

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-54-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.

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

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

AP-IX-05  
Exhibit 1

Page 1 of 2

12/1/82 - C - 3769

Type of Request:

☒ Permanent Waiver to "use-as-is"

☐ Non-ASME

☐ Field Change

☐ ASME Section III Division 1

☒ See Recommended Action

☒ ASME Section III Division 2

☒ Q

☐ Non-Q

Nonconformance ☐ No

☒ Yes

Report No. NCR-C-508

ORIGINAL

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 1CBXW 290 001 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 4965 psi. See attached Concrete test Report.

Recommended Action:

☐ Please Investigate and Resolve

☒ Please Resolve as Follows

Accept the placement as-is.

RECEIVED  
DOCUMENT CONTROL

SEP 17 1983

SHEARON HARRIS N.P.

Justification: The reserve "D" cylinder was retained and continuously 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 requirements. 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 Hinkle for MPT  
Senior Resident Engineer

12/1/82  
Date

AP/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
<i>Robert A. Harris</i>	CP&L Harris Plant Engineering Approval	9/16/83	<i>James R. Paul</i>	Senior Resident Engineer	9/16/83
MINOR CHANGE, NO VERIFICATION NEEDED					
HPES Attachments <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
<input checked="" type="checkbox"/> Approved as Recommended <input type="checkbox"/> Rejected <input type="checkbox"/> Conditional Approval					
TEST BREAKS ARE ATTACHED.					
Discipline Engineer		Date	NHPPE or PPE		Date

Site Concurrence: Recommend ☐ Implementation ☐ Alternate Resolution ☐ Rejected

N/A Per AP 1X05 Rev 28

Distribution:

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Implementation Completed as Approved? ☒ Yes ☐ No

Comments: \_\_\_\_\_

*James R. Paul* 9/24/83  
Discipline Engineer Date

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mk  
8-24-82

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

LABORATORY NO. 10BXW29000X DATE 7-23-82

LOCATION South of Waste Processing

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

[illegible]

SLUMP REQUIRED 0-4 MAX in.

AIR REQUIRED 14-1 %

DESIGN MIX # USED M-72

DESIGN STRENGTH 5000 PSI  
FOR PLACEMENT

FIELD QA/QC INSPECTOR Ruby Standford DATE 7-82

LAB QA/QC INSPECTOR Henry Carter DATE 8-82

QA/QC SPECIALIST Edward Kelly DATE 8-82

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. 1CBXW290001

TEST RESULTS

Compression Machine CALM-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	9600	1.74	6.50	2.38	3.7	4030	-	-

REMARKS

LAB INSPECTOR

Wendy J. Woot

DATE 8-8-83

QA SPECIALIST

Donald Sugg

DATE 8-8-83

TO PW-C-3769

PAGE 2 OF 2

Placement No. ICBXW290001

Compression Machine CR/LM-43105

[illegible]

RELATIONS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LAB INSPECTOR Wendy J. Wirth DATE 8-23-83

QA SPECIALIST Shirley C. Allen DATE 8-25-33