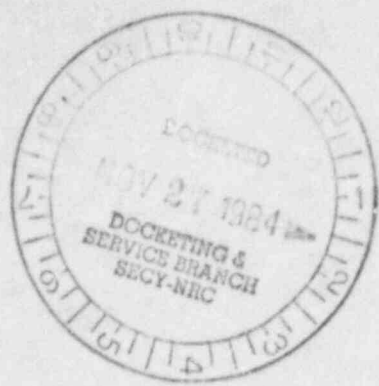


18  
10/22/84  
50-400-02



Applicants' Exhibit 18  
Eddleman Contention 65  
Docket No. 50-400

Four Package  
Placement 1CBXW396002

NUCLEAR REGULATORY COMMISSION

Docket No. 50-400 Official Exp. No. 18

In the matter of Shearon Harris

Staff \_\_\_\_\_ IDENTIFIED ☒

Applicant ☒ RECEIVED ☒

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

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

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

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

Reporter JW

8412170331 841022  
PDR ADOCK 05000400  
G PDR

12/81

CONCRETE  
PLACEMENT  
REPORT

000570

CP&L  
SHNPP

Pg. 1 of 6

Exhibit 1

WB-05

FILE

PLACEMENT NUMBER

1CBXW396002

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONT. #1 ELEV 396

SCHEDULED DATE:

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

100 C.Y.

TEMP LIMIT

90°

SLUMP LIMIT

8°

SEISMIC CLASS I

YES NO

☒

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING

PLACING

VIBRATION

FINISHING

FORMED SURF.

UNFORMED SURF.

BUGGY

☐ CHUTE☐ INTERNAL☒ STEEL TROWEL☐ FORMS ALONE☒ WET BURLAP

BUCKET

☐ TREMIE☒ FORM☐ WOOD FLOAT☒ TARP☐ POLYETHYLENE

CONVEYOR

☐ DROP☒ IF BEST METHOD☐ HAIR BRUSH☐ INSULATION☐ CURING COMPOUND

PUMP

☒ IF BEST METHOD☐ BROOM FINISH☐ FORMS & WATER☐ KUREZ

TRUCK

☐☐ RUBBER FLOAT☐☐ NUTEC 10SERVICE COND. SCURGEPROTECTION EXTENDEDCURE (DAYS) 7

ANTICIPATED WEATHER

CONDITIONS: NORMAL

PRIMARY MASONRY DWG. NO.

CM-21676-0640 L-5

RATE OF RISE

2' / hr

DES. STRENGTH

40 KSI

DESIGN MIX CODE

M-1011

COMMENT &amp; CLARIFICATION TO PROPOSED METHODS

EXT. WALL FROM A2 0° TO 90° & 180° TO 270°  
FROM EL. 391 TO 396 (USE M-12 MASON GROUT)

NAME/TITLE PERSON SUBMITTING ALL THE ABOVE

BY: David R. By TITLE: Asst. Eng. DATE: 3/24/82PRE-PLACEMENT  
CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY ASSURANCE

	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	Q.C. SIGNOFF	DATE	Q.A. SIGNOFF
1 CONTACT SURFACES	WP-05	J. C. Hyatt	R. Breedlove	4-2	R. Breedlove	N/A		4/1/82	R. Breedlove
2 FORMS	WP-22	J. C. Hyatt	R. Breedlove	4-5	R. Breedlove	N/A		4/1/82	R. Breedlove
3 REINFORCING STEEL	WP-11	J. C. Hyatt	R. Breedlove	4-5	R. Breedlove	N/A		4/1/82	R. Breedlove
4 EMBEDS		J. C. Hyatt	R. Breedlove	4-2	R. Breedlove	N/A		4/1/82	R. Breedlove
5 MECHANICAL		J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove
EMBEDS	WP-104	J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove
PIPE	WP-102	J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove
6 ELECTRICAL	WP-201	J. C. Hyatt	R. Breedlove	4-5	R. Breedlove	N/A		4/1/82	R. Breedlove
7 CADWELDS	WP-01	J. C. Hyatt	R. Breedlove	4-2	R. Breedlove	N/A		4/1/82	R. Breedlove
8 BOP WELDING		J. C. Hyatt	R. Breedlove	4-6	R. Breedlove	N/A		4/1/82	R. Breedlove
9 CODE/SEISMIC WELDING		J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove
10 CLEAN-UP	WP-05	J. C. Hyatt	R. Breedlove	4-2	R. Breedlove	N/A		4/1/82	R. Breedlove
11		J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove
12		J. C. Hyatt	R. Breedlove		R. Breedlove	N/A		4/1/82	R. Breedlove

CONSTRUCTOR SIGNOFF (AREA SUPT)

TIME: 9:30

C.I. SIGNOFF

TIME: 11:09

DESIGN APPROVAL

DATE: 4-6-82

DATE: 4-15-82

DATE: 4-15-82

TIME OF START

DATE: 4-6-82

DATE PLACED

DATE: 4-15-82

YDS. CONCRETE

YDS PLACED IN

YARDS WASTED

CONCRETE

6

DELIVERED

THIS PLACEMENT

CONCRETE

GROUT

2

YARDS GROUT

CONCRETE

YARDS PLACED

CONCRETE

0

DELIVERED M-10

GROUT M-10

ELSEWHERE

GROUT

0

ACCEPTANCE OF PLACEMENT METHODS &amp; COMPLETENESS OF ABOVE INFORMATION

NAME: Russell S. BreedloveTITLE: C.I.DATE: 4-15-82

REMARKS (ATTACH RELEVANT REPORTS)

M-10 GROUT TO BE SPREAD ON EXT. SURFACES IN ACCORDANCE TO FC-C-3061

\* inspect work class. rework for cracks below 0° to 90° - 11 #12's; 180° to 270° - 14 #12's

\* Recheck prior to placement of 4/15/82 - Respected & Sat - PLB 4-15-82

\* recheck prior to placement of 4/15/82

1-CB- 1CBXW396002

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT

Exhibit 1  
TP-15  
Pg. 2 of 6

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW396002

LOCATION Cont. #1 Ext. Wall

Az. 0° to 90° & 180° to 270°, el. 391' to 396'

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat! *	RLB
Rate of Placement	Sat.	RLB
Hot Weather Conditions	N/A	RLB
Cold Weather Conditions	N/A	RLB
Layer Thickness	Sat.	RLB
Use of Placing Equipment	Sat. *	RLB
Consolidation	Sat.	RLB
Embedded Items	N/A	RLB
Forms	Sat.	RLB
Cleanup Maintained	Sat.	RLB
Mixing To Placing Intervals	Sat.	RLB
Shifted/Removed Rebar Replaced	Sat.	RLB
COMMENTS *+2" <sup>long</sup> tremies installed for first lift		

CONSTRUCTION INSPECTOR Russell S. Breedlove DATE 4-16-82

CONSTRUCTION INSPECTION SUPERVISOR Walter D. Taylor DATE 4-16-82



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

Placement Number 1 CBXW2396002

Coordinates  $0^{\circ}$  to  $90^{\circ}$  &  $180^{\circ}$  to  $270^{\circ}$ 

Elevation 391' to 396'

C.I. Review R. Brudlow Mike Brudlow F.E. Area Engineer Review

Drawings Required/Revision:

### Affecting Documents

Masonry

CAR-2167-G-0630(R7)

- 0640(RB)

~~06-31(27)~~  
RUB 4-5-82

FCR-C-2843 (Spacing,  $T = 48^\circ$  Row  $0^\circ$  to  $180^\circ$ )

PW-C-2483 (Projection of Dowels above el. 362')

FCR-C-3061 (Cover & Placing method)

FCR-C-3059 (Vertical Construction Joints)

FCR-C-3067 (Preparation of Construction Joint)

✓ Reinforcing CAR-2167-G-0660(R4)

-06061 (24)

~~0662(R)~~ H.C.P. 4-16-32

~~DL40(RJ)~~ RLB 4-5-82

Embeds

## Penetrations

Dowels

Bar Bending CAR-2167-B-9005-10

Other  
Liner

CAR-2468-G-253505(E3)  
- 228(R11)

Computer Printout Checked

Daily Document Log Reviewed

Document Control Contacted

Ronald J. Brecklone 4-7-82

Rev. 0  
3/92

# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL DOME REINFORCING STEEL

Exhibit 13  
TP-22  
Pg. 4 of 6

PLACEMENT NO./LOCATION 1 CBXW390002  
DRAWING NUMBER  
BAR BENDING SCHEDULE NO. CAR-2167-G-0640(R3); -0660(R4); -0661(R4)

INSPECTOR Russell J. Breddlow DATE 3/31/92  
FIELD ENGINEER Nike Blanton DATE 4/1/92  
DESIGN QUANTITIES PER SHEET

VERTICALS AYER 1, IF/OF	HORIZONTALS IF/OF	VERTICALS LAYER 2, OF	DIAGONALS ROWS 5, 6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
24/2 24/4	0	0	0	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CJ-261	62	62	Row 1 I.F. Verticals 0° to 90°	Incorrect Projections	D. Bryan PW-C-2483 FCL-C-2483	D. Bryan
CJ-262	62	62	↓	Incorrect Spacing R-3 4-2482	FCL-C-2483	↓
CJ-261	61	61	Row 1 I.F. Verticals 180° to 270°	Incorrect Projections	D. Bryan PW-C-2483 FCL-C-2483	D. Bryan
CJ-262	61	61	↓	↓	↓	↓
CJ-266	56	56	Row 1 D.F. Verticals 0° to 90°	Incorrect Projections	D. Bryan PW-C-2483 FCL-C-2483	D. Bryan
CJ-267	57	57	↓	Incorrect Spacing	FCL-C-2483	↓
CJ-296	3	3	↓	↓	↓	↓
CJ-295	8	8	↓	↓	↓	↓
CJ-266	55	55	Row 1 D.F. Verticals 180° to 270°	Incorrect Projections	D. Bryan PW-C-2483	D. Bryan
CJ-267	55	55	↓	↓	↓	↓
CJ-296	4	4	↓	↓	↓	↓
CJ-295	8	8	↓	↓	↓	↓

Rev. 0  
3/92

# FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL DOME REINFORCING STEEL

Exhibit 13  
TP-22  
Pg. 5 of 6

PLACEMENT NO./LOCATION 1 CBXW396D02

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-G-0660 (R4); -0661 (R4)

INSPECTOR

Russell J. Breedlove

DATE 3-31-92

FIELD ENGINEER

Michael J. ...

DATE 4/1/92

DESIGN QUANTITIES PER SHEET

VERTICALS LAYER 1, IF/OF	HORIZONTALS IF/OF	VERTICALS LAYER 2, OF	DIAGONALS ROWS 5, 6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
0	7	123	0	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CJ-271	31	31	Layer 2 O.F. Verticals 0° to 90°	None	None	N/A
CJ-297	31	31	↓	↓	↓	↓
CJ-271	31	31	Layer 2 O.F. Verticals 180° to 270°	None	None	N/A
CJ-297	30	30	↓	↓	↓	↓
CJ-15	1(set)	1(set)	Inside Face Horiz. 0° to 90° & 180° to 270°	None	None	N/A
CJ-16	1(set)	1(set)				
CJ-17	1(set)	1(set)				
CJ-18	1(set)	1(set)				
CJ-19	1(set)	1(set)				
CJ-20	1(set)	1(set)				
CJ-21	1(set)	1(set)	↓	↓	↓	↓
CJ-22	1(set)	1(set)				

Rev. O  
3/92

FIELD INSPECTION REPORT FOR  
CONTAINMENT EXTERIOR WALL  
DOME REINFORCING STEEL

Exhibit 13  
TP-22  
Pg. 6 of 6

PLACEMENT NO./LOCATION 1 CBXW396002  
DRAWING NUMBER  
BAR BENDING SCHEDULE NO. CA2-2167-G-0660(R4);-0661(R4)

INSPECTOR Dwight L. Breedlove DATE 3-31-82  
FIELD ENGINEER Michael B. ... DATE 4/1/82  
DESIGN QUANTITIES PER SHEET

[illegible]



CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
EMBEDDED PIPING INSPECTION FORM

PLACEMENT NO. 1CB-XW-396-002 \*

DRAWING(S) (NO. & REV.) 2167 G-640 R/S

2168-G-N/A  
2169-G-N/A

Checklist

(✓) Acceptable  
(N/A) Not Applicable

(U) Not Acceptable

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

Q A RECORDS  
**RECEIVED**  
APR 27 1982  
**RECEIVED**  
SHNPP CONSTR. Q A UNIT

COMMENTS: \* POUR TO COVER 0° → 90° & 180° → 270°

N/A EMBEDDED PIPE

C.I. Inspector [Signature] Date 5-5-8

C.I. Supervisor [Signature] Date 4-6-8

1-CB-XW-396-002 12/4/82



Rev. 8  
1/82

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

Exhibit 2  
TP-15

PLACEMENT NO. 1 CBXW 396002

LOCATION Cont. #1 Ext. Well

PLACED 4-15-82

SURFACE AREA 1060 sq. ft.

END OF CURE 4-22-82

CURE COMPOUND (AMOUNT) 4 gals.

CURE/PROTECTION REQUIREMENTS Severe exposure / Extended Protection / 7 days moist cure

CHECKLIST	REMARKS	INITIALS
<u>FINISH *</u>		
A. Steel Trowel	N/A	RLB
B. Wood Float	On Vert. Surface - Sat.	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	N/A	RLB
<u>REPAIRS</u>		
Concrete Repairs Required	Cosmetic Only	RLB
<u>EMBED PLATES W/SCREW-IN-STUDS</u>		
Thread Engagement	N/A	RLB
<u>SEISMIC GAP</u>		
Proper Gap Maintained	N/A	RLB
<u>CURING/PROTECTION</u>	<u>EXTENSIONS</u>	<u>REMARKS</u>
A. Water	N/A	Sat-Moist 7 days
B. Curing Compound	N/A	Sat-Kurex verified
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: \* Roughened surface / Exposed Aggregate for surface prep. on horizontal C.J.

CONSTRUCTION INSPECTOR Russell J. Brucklowe DATE 4-26-82

CONSTRUCTION INSPECTION SUPERVISOR Herbert L. Taylor DATE 4-26-82

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

PLACEMENT NO. 1CBXW396002 DATE 4-15-82 MODE OF PLACEMENT Swamp

[illegible]

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				SET NO.	LAB #	REMARKS
											RESULTS						
											DAY	DAY	DAY	DAY			
82545	1 AM	8	4	75	CPAL 4997B	5.5	CPAL 4310	142.3	CPAL 4310	CPAL 01297	3680	5340	5220	1	8605		
	12 125 PM																28
82558	1 AM	56	3	77	CPAL 4997B	5.0	CPAL 4310										
	12 5 PM																28
82574	1 AM	104	5	79	CPAL 4997B	4.6	CPAL 4310	142.3	CPAL 4310	CPAL 01297	3400	4430	5040	2	8604		
	3 15 PM																28
	1 AM																
	1 PM																
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SLUMP REQUIRED	<u>0-2 MAY in.</u>	DESIGN MIX # USED	<u>M-81</u>	FIELD QA/QC INSPECTOR	<u>Ruby Stuebner</u>	DATE	<u>4-15-82</u>
AIR REQUIRED	<u>4-8 %</u>	DESIGN STRENGTH FOR PLACEMENT	<u>4000 PSI</u>	LAB QA/QC INSPECTOR	<u>Donald Lincee</u>	DATE	<u>5-13-82</u>
				QA/QC SPECIALIST	<u>Robert Ball</u>	DATE	<u>5-14-82</u>