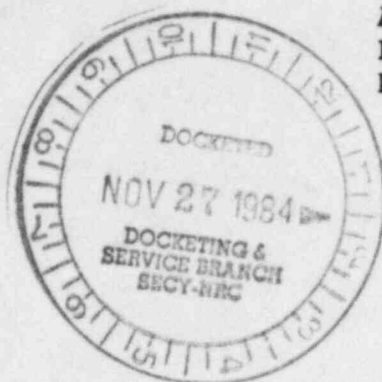


A-12
58-400-02
10/22/84

Applicants' Exhibit 12
Eddleman Contention 65
Docket No. 50-400



Pour Package
Placement 1CBXW256004

NUCLEAR REGULATORY COMMISSION
Docket No. 50-400-02 Official Exh. No. 12
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

8412170286 841022
PDR ADOCK 05000400
G PDR

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW236004

LOCATION Cont. #1 Ext. Wall

Az. 315° to 16°, el. 251' to 256'

CHECKLIST		REMARKS	INITIALS
Free Fall Height	Sat.		RLB
Rate of Rise	Sat.		RLB
Hot Weather Conditions	Sat.		RLB
Cold Weather Conditions	N/A		RLB
Layer Thickness	Sat.		RLB
Use of Placing Equipment	Sat.		RLB
Consolidation	Sat. *		RLB
Embedded Items	Sat.		RLB
Forms	Sat.		RLB
Cleanup Maintained	Sat.		RLB
Mixing To Placing Intervals	Sat.		RLB
Shifted/Removed Rebar Replaced	Sat.		RLB
COMMENTS * Workers warned about vibration techniques; both			
under- and over-vibration. A most difficult placement.			

CONSTRUCTION INSPECTOR

Russell L. Breskione

DATE 8-11-81

CONSTRUCTION INSPECTION SUPERVISOR

M.D. Sealsy

DATE 8-11-81

FOR INFORMATION ONLY

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGSPlacement Number 1 CBXW236004Coordinates A2. 315° to 16°Elevation 251.0' to 256.0'C.I. Review Russell S. BreckelmeArea Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents *

✓ Masonry ✓ CAR-2167-G-0630(R7)
✓ -0631(R7)✓ FCR-C-716 (Tolerance on Shell Liner)
✓ FCR-C-2324 (Excess clearance in blister area)
✓ FCR-C-2556 (Interference CC 906/S-37 stud)
✓ FCR-C-2557 (No clearance on c/welds @ 16°)✓ Reinforcing CAR-2167-G-0618(R6) ✓
-0619(R6) ✓
-0636(R4) ✓
-0637(R4) ✓
-0764(R3) ✓
-0767(R2) ✓
-0632(R3) ✓
-0633(R3) ✓✓ FCR-C-2558 (change C.J. @ A2. 315°)
✓ PW-C-2089 (8th Row As-Built)
✓ PW-C-2333 (Form and Probe Vibrators)
PW-C-1370 (Omitted 8th Row Dowels)
✓ PW-C-2495 (Radial Bars mislabeled)
✓ PW-AS-685 (Bent Studs on penetrations)
✓ PW-AS-736 (Bent Studs on penetrations)
✓ DCN-530-805 ('Endos' 8th Row)✓ Embeds CAR-2167-G-0631(R7)✓ (cont.)
✓ RCI-C-625 (Add'l Temperature Steel)
✓ RCI-C-465 (Form Coatings)
✓ RCI-C-498 (ACI concrete cover minimums)
✓ RCI-C-535 (Acceptable 'Endo' lengths)
✓ RCI-C-589 (Conflicts between prints)
✓ RCI-C-598 (Conflicts between prints)
✓ RCI-C-599 (Liner plate tolerance clarification)
✓ RCI-C-555 (Shear Bolt Assemblies)
✓ RCI-C-600 (Design Drawings Clarification)✓ Penetrations CAR-2167-G-0630(R7)
-0631(R7)(cont.)✓ Dowels ✓ CAR-2167-G-0618(R6)
✓ -0619(R6)✓ Bar Bending CAR-2167-B-9005-54,789,3

Other _____

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

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
FIELD INSPECTION REPORT FOR REINFORCING STEEL-
REQUIRED DRAWINGSPlacement Number 1CBXW236004Coordinates A2. 315° to 16°Elevation 251.0' to 256.0'C.I. Review R. Bredlowe

Area Engineer Review _____

Drawings Required/Revision:

Affecting Documents

012 8-8-81
Reinforcing

CAR-2167-G-0638(R3) ✓

-0639(R3) ✓

-0641(R4) ✓

-0650(R4) ✓

-0651(R4) ✓

-0652(R0) ✓

-0770(R1) ✓

-0634(R3) ✓

-0635(R3) ✓

-0761(R4) ✓

013 8-8-81
Embeds

CAR-2168-G-601(R6)

✓ -0229(R14)

✓ -0230(R16)

✓ -0231(R18)

✓ -253501(R3)

Penetrations

✓ -253502(R4)

✓ -253503(R3)

✓ -253504(R3)

014 8-8-81
Dowels

✓ -253508(R2)

Bar Bending

Other

Bethlehem Steel Corporation Prints (Reinforcing)

✓ 8099-10(R1) ✓

✓ -7(R2) ✓

✓ -12(R6) ✓

✓ -3(R2) ✓

✓ -8(R4) ✓

✓ -4(R1) ✓

✓ -13(R2) ✓

✓ -24(R3) ✓

✓ -25(R4) ✓

✓ -26(R3) ✓

✓ -32(R3) ✓

✓ -29(R2) ✓

✓ -33(R3) ✓

✓ -22(R4) ✓

✓ -23(R3) ✓

✓ -23A(R1) ✓

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CONFINEMENT EXTERIOR WALL INSPECTION SUMMARY SHEET

Exhibit 1
TP-22

P. 4 of 44

PLACEMENT NO. 1CBXW256004INSPECTOR Russell J. Brecklow

DATE

FIELD ENGINEER Mike Gledhill

DATE

8/10/81

See Individual Sheets

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
A2. 16° to 315° E1. 251.0' to 256.0'	VERTICALS					
	ROW 1	83	83			
	ROW 2	6	6			
	ROW 7	55	56	1 extra bar	D. Bryan	D. Bryan
	ROW 8	98	99	1 extra bar	D. Bryan	D. Bryan
	HORIZONTALS					
	ROW 3	5	5			
	ROW 4	5	5			
	ROW 9	5	5			
	ROW 10	5	5			
	ADDITIONAL PER DWG.					
	HORIZONTAL					
	VERTICAL	46	46	Included in 7th Row Totals		
	DIAGONAL					
	ROW 5	37	37			
	ROW 6	38	38			
	ADD. PENETRATION					
	STEEL / VERTICAL	✓	✓	As per 0651 &		
	HORIZONTAL	✓	✓	RCI-C-625		
	DIAGONAL					
	FACE BARS	3	3			
	RADIAL BARS					
	INNER			See sh. 22 thru 40 of 44		
	OUTER			See sh. 22 thru 40 of 44		
	RING BARS	38	38			
	SHEAR BOLT ASSEMBLY	43	43			
	OTHER					
	Shear Bars (CC-904's)	280	285			
	S-57 Haunch 1 1/2	31	34			
	Interface #8's 17	14	15			
	S-151 Haunch 1 3/4	5	8			
	Mat over face of blister	✓	✓	As per FCR-C-2324	D. Bryan	D. Bryan
	Bars in 18" gap & around penetrations	✓	✓	As per 0651 & RCI-C-625	D. Bryan	D. Bryan

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

SH. 5 of 44

PLACEMENT NO./LOCATION 1CBX0256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CA2-2167-G-0637(R4); -0619(R-6); -0632(R-6); -0636(R4)Bethlehem Print 8099-10(R-1)-0618(R-6)INSPECTOR Russell L. BredlowDATE 7-22-81FIELD ENGINEER Mike BudreDATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG HOR./VERT	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
Bethlehem Bars "B" CB-5(100 to 250)	2	2	1st Row Verticals 3150 to 3-97	None	None	N/A
CC-250	1	1	√			
CC-251	2	2	5-97 to 3-34			
CC-250	1	1				
CB-5 (100 to CC-250)	2	2				
CC-301	1	1				
CC-300 (100 to CB-28)	1	1				
CC-297 (100 to CB-28)	1	1				
CC-295 (100 to CB-28)	1	1	√			
CC-298 (100 to CB-28)	1	1	5-34 to 5-96			
CC-296 (100 to CB-28)	1	1				
CC-274	1	1				
CC-266	1	1				
CC-303	1	1	√			
CC-266	1	1	5-96 to & 5-57	√	√	√

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

PLACEMENT NO./LOCATION 1CBKW286004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-G-0637(R4), -0619(R6), -0692(R0), -0636(R4)Bethlehem Print 8099-10(R-1)-0618(R-6)268-1081INSPECTOR Russell S. BreedloveDATE 76-22-81FIELD ENGINEER John B. AdamsDATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
CC-303 ✓ Bethlehem Bars - "B"	1	1	1st Row Verts. (cont.) E 5-96 to E 5-57	None	None	N/A
CC-267 ✓	3	3				
CC-359 ✓	2	2				
B-123	1	1				
B-122	1	1				
B-121	1	1				
B-172 CLB 2. - 9.1	1			These bars have "deadmen" start in next placement	N/A	N/A
B-171 CLB 2. - 9.1	1				N/A	N/A
B-117	1	1	E 5-57 to S-9			
B-118	1	1				
B-119	1	1				
B-120	1	1				
B-116 RD to B-116a)	1	1				
B-115 ✓	1	1				
B-167 ✓	2	2				

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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Sh. 7 of 44

PLACEMENT NO./LOCATION 1CBW286004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-4-0637(R4), -0619(R4), -0682(R0), -0636(R4)Bethlehem Print 8099-10(R-1)-0618(R4)INSPECTOR Russell L. BreedloveDATE 7-22-91FIELD ENGINEER W. J. S. S. S. S.DATE 8/4/91

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG HOR/VERT	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (EAP MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTED
Bethlehem Bars = "B" B-168 ✓	1	1	1st Row Verticals E-57 to 3-2 (cont.)	None	None	N/A
B-114 ✓	1	1	3-9 to 3-102			
B-166 ✓ (CO to CC-3-113)	1	1				
B-112 ✓	1	1				
B-111 213 321 (CO to CC-3-113) 4-10-91	1	1				
B-110 213 321 (CO to CC-3-113)	1	1				
B-109 213 319 (CO to CC-3-113)	1	1		Needs respacing 3way from penetration	Respaced & Acceptable	D. Sullivan 8-9-91
B-108 213 319 (CO to CC-3-113)	1	1	3-102 to 3-54			
B-165 213 319 (CO to CC-3-113)	1	1				
B-164 213 319 (CO to CC-3-113)	1	1				
B-162 ✓	1	1				
B-163 ✓	1	1				
B-163 ✓	1	1	3-54 to 3-51			
B-162 ✓	1	1				
B-161 ✓	1	1				

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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Sh. 8 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAE-2147-G-0618(R-6), -0636(R4), -0637(R4), -0619(R6),

Bethlehem Print 8099-10(R-1)

-0632(R-0)

INSPECTOR Russell L. Breedlow

DATE 7-22-81

FIELD ENGINEER B. Sullivan

DATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR/VERT	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT/HOR/DIAG	SHEAR BARS	OTHER
INSPECTED ITEM (S&B MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
B-160 ✓	1	1	1 st Row Verticals S-54 to S-51 (cont)	None	None	N/A
B-101 ✓	1	1	↓			
B-102 ✓	1	1	S-51 to 16°			
B-103 ✓	1	1				
B-104 ✓	1	1				
B-105 ✓	1	1				
B-106 ✓	1	1				
B-107 ✓	1	1				
B-151 ✓	1	1				
CB-5 (CO to CC-374)	1	1		↓	↓	↓
CB-5 (CO to CC-374)	4	4		1 cut off short	Extension ad welded & accepted	D. Sullivan 8-4-81
CC-374 ✓ (1 CO to CC-374)	6	6		↓	↓	↓
CC-377 (CO to CC-250)	5	5		1 cut off short	Extension ad welded & accepted	Donny Sullivan 8-4-81
CC-250 ✓	6	6		Needs respacing	Respaced & Acceptable	D. Sullivan 8-4-81
CB-5 (CO to CC-250)	2	2	↓	Needs respacing	Respaced & Acceptable	D. Sullivan 8-4-81

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

Sh. 10 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAE-2167-G-0633(R-3), -0632(R-3)

Bethlehem Print 8099-7(R-2)

INSPECTOR Russell L. Brecklow DATE 7-23-81

FIELD ENGINEER M. J. Bledsoe DATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars - "B" CC-7, B-123 B-124, B-126, CC-1	1(set)	1(set)	3rd Row Horizontal 315° to 16°	None	None	N/A
CC-7, B-127 B-122, B-124 CC-1	1(set)	1(set)	↓	↓	↓	↓
CC-7, B-121 B-179, CC-1	1(set)	1(set)	↓	↓	↓	↓
CC-71, B-120 B-128, CC-1	1(set)	1(set)	↓	↓	↓	↓
CC-75, B-129 B-134, CC-1	1(set)	1(set)	Partially Embedded	↓	↓	↓
Bethlehem Bars - "B" CC-8, B-123 B-124, B-125, CC-2	1(set)	1(set)	4th Row Horizontal 315° to 16°	None	None	N/A
CC-8, B-127 B-122, B-126 CC-2	1(set)	1(set)	↓	↓	↓	↓
CC-8, B-121 B-179, CC-2	1(set)	1(set)	↓	↓	↓	↓
CC-72, B-120 B-128, CC-2	1(set)	1(set)	↓	↓	↓	↓
CC-76, B-124 B-134, CC-2	1(set)	1(set)	PARTIALLY EMBEDDED	↓	↓	↓

FIELD INSPECTION REPORT FOR CONTA. MENT EXTERIOR WALL REINFORCING STEEL

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Sh. 12 of 41

PLACEMENT NO./LOCATION CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-G-D638(RS), -D639(RS)Bethlehem Prints 8099-12(R4), -3(R2)INSPECTOR Russell L. BrucknerDATE 7-23-81FIELD ENGINEER Walter BladenDATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 365 (6.8' x 4.4' x 1')	+		5th Row Diagonals S-33 to E5-57	None	None	N/A
369	1	1	E5-57 to S-9			
371	1	1				
373	1	1				
377 (CD to 434)	1	1	S-9 to S-54			
385	1	1				
389 (CD to 386)	1	1				
388 (DM start @ el. 28')	1	1				
393	1	1	S-51 to 16°			
439 (DM start @ el. 25')	1	1				
440	1	1				
441	1	1				
442	1	1				
443	1	1				
444	1	1				

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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Sh. 13 of 4

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAE-2167-G-0638(R5), -0639(R5)Bethlehem Prints 8099-12(R6), -3(R2)INSPECTOR Russell F. BreckloneDATE 7-23-81FIELD ENGINEER Michael J. LedsonDATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 445 ✓	1	1	5th Row Diagonals S-51 to 16° (cont.)	None	None	N/A
398 (CD to 430)	1	1				
451	1	1				
475 (CD to 492)	1	1				
453	1	1				
477 (CD to 454)	1	1				
455	1	1				
456	1	1				
457	1	1	✓	✓	✓	✓
458	1	1		These bars are embedded at 16° bulkhead	N/A	N/A
459	1	1			N/A	N/A

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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Sh. 14 of 4

PLACEMENT NO./LOCATION 1CBXW256604DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0638(R5)-0639(R5)Bethlehem Prints 8099-8(R4), -4(R1)INSPECTOR Russell J. BrucknerDATE 7-23-81FIELD ENGINEER Mike B. LefnerDATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
Bethlehem Bars						
355	1	1	Wth Row Diagonals 315° to 5-97	None	None	N/A
473	1	1	↓			
459	1	1	↓			
360	1	1	5-97 to 5-34			
361	1	1	↓			
374	1	1	↓			
375 (CO to 376)	1	1	5-34 to 5-96			
377	1	1	↓			
379 (CO to 380)	1	1				
381 (CO to 382)	1	1	↓			
383 (CO to 384)	1	1	↓	Needs respacing away from penetration	Accepted & Acceptable	D. Sullivan 8-4-81
389	1	1	5-96 to 5-57	↑	↑	↑
398	1	1	5-57 to 5-9	↓		
403	1	1	↓	↓		
405 (CO to 406)	1	1	5-9 to 3-34	Rebar does not start @ correct place RUB 9 8 81	↓	↓

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Exhibit 7
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FIELD II. SECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

Sh. 15 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-21167-G-0638(R-5), -0639(R-5)

Bethlehem Bars 8099-8(R4), -4(R-1)

INSPECTOR Russell L. Brecklow DATE 7-23-81

FIELD ENGINEER John B. Glendon DATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 406 ✓	1	1	6th Row Diagonals S-9 to S-54(cont)	None	None	N/A
409 ✓	1	1	↓			
410 ✓	1	1	↓			
412 ✓ (CO to 413)	1	1	S-54 to S-51			
414 ✓	1	1	↓			
417 (CO to 418)	1	1	S-51 to 16°			
419 (CO to 420)	1	1				
421	1	1				
423 (CO to 424)	1	1				
26	1	1				
25 (CO to 426)	1	1				
22	4	4				
24	1	1				
9 H.B. 24	4	4				
21	2	2	↓	↓	↓	↓
23	1	1				

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Exhibit 7
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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

Sh. 16 of 44

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0651 R4, -0650 R4, -0641 R4, -0618 R6

CAR-2167-G-0619 RB-0770 RI

INSPECTOR Russell F. Breedlove

DATE 7-23-81

FIELD ENGINEER *W. J. [unclear]*

DATE 8/2/81

DESIGN QUANTITIES PER SHEET

[illegible]

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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Sh. 17 of 44

PLACEMENT NO./LOCATION: 1CBXW256004DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0618(R6); -0619(R6); -0650(R4); -0652(R0)Bethlehem Print 8099-13(R2)-0641(R4)INSPECTOR Russell J. BreckloweDATE 7-23-81FIELD ENGINEER Mike BledsoeDATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG HOR./VERT.	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTED
Bethlehem Bars						
CC-740 (D. 23 & 256)	1	1	8th Row Verticals 315° to S-97	None	None	N/A
CC-762	2	2	↓			
CC-762	6	6	S-97 to S-34			
CC-740 (D. 23 & 256)	4	4				
CC-771	2	2				
CC-772	2	2	↓			
CC-772	1	1	S-34 to S-96			
CC-762	1	1				
CC-740 (D. 23 & 256)	1	1				
CC-771	1	1	↓			
CC-772	1	1	S-96 to S-57			
CC-762	2	2				
CC-740 (D. 23 & 256)	1	1				
CC-755	2	2				
CC-754	1	1	↓	↓	↓	↓

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

Sh. 18 of 4

PLACEMENT NO./LOCATION 1 CBX2256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-G-048(R-6), -0618(R-6), -0630(R-4), -0652(R-0)Bethlehem Print 8099-13(R-2)+0641(R-4)INSPECTOR Russell S. BreedloveDATE 7-23-81FIELD ENGINEER Mike B. BakerDATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG HOR./VERT.	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bar #8 B-118	1	1	8th Row Verticals 5-96 to 5-57(cont)	None	None	N/A
CC-742 (0.55 @ 234") B-114	0	1		Extra bar not required	DCN-590-905	D. Bryan
B-114	1	1	5-57 to 5-9	↑	↑	↑
B-115	1	1		↓	↓	↓
B-111 (CO to B-139)	1	1				
B-122	2	2		1 does not have correct origin(CC-742)	D. Bryan PW-C-2089	D. Bryan
CC-740 (0.55 @ 234")	2	2		1 does not have correct origin (EB-106)	D. Bryan PW-C-2089	D. Bryan
CC-742 (0.55 @ 234")	1	1		↑	↑	↑
B-121	2	2				
B-122	1	1	5-9 to 5-102			
B-121	1	1				
B-110	1	1				
B-109 (CO to CC-742)	1	1				
B-108 (CO to CC-742)	1	1				
B-107 (CO to CC-742)	1	1				
CC-740 (0.55 @ 234")	1	1		↓	↓	↓

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FIELD INSPECTION REPORT FOR CONCRETE EXTERIOR WALL REINFORCING STEEL

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PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAR-2167-G-0618(R6), -0619(R6), -0650(R4), -0652(R0)Bethlehem Print 8099-13(R2)-0641(R4)

INSPECTOR

Russell J. BredlowDATE 7-23-81

FIELD ENGINEER

Michael BredlowDATE 8/2/81

DESIGN QUANTITIES

PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DWG. HOR/VERT	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
Bethlehem Bars "B" B-106 to B-120 B-108	+1	1	8th Row Verticals 5-102 to 5-54	None	None	N/A
B-138 (CC to CC-83)	1	1				
B-137 (CC to CC-929)	1	1				
B-136	1	1				
B-135	1	1	✓			
B-134	1	1	5-54 to 5-51			
B-133	1	1				
B-132	1	1				
B-131	1	1				
B-101	1	1	✓			
B-102	1	1	5-51 to 16°			
B-103	1	1				
B-104	1	1				
B-105	1	1				
B-120	3	3	✓	✓	✓	✓

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-0641 (R4)

PER SHEET

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL REINFORCING STEEL

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PLACEMENT NO./LOCATION 1CBXW256004
DRAWING NUMBER 0634
BAR BENDING SCHEDULE NO. 2167-G-0634 R3 0635
0632 R3
BETHLEHEM PRINT 8099-7 R2

INSPECTOR Russell S. Breedlove DATE 7-23-81
FIELD ENGINEER [Signature] DATE 8/2/81
DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
BETHLEHEM BAR "B" CC-496, B-123 B-124, B-125, CC-400	1 (SET)	1 (set)	9 TH ROW HORIZ. 315" - 16"	None	None	N/A
CC-496, B-127 B-122, B-126 CC-400	1 (SET)	1 (set)				
CC-496, B-121 B-124, CC-400	1 (SET)	1 (set)				
CC-534, B-120 B-128, CC-400	1 (SET)	1 (set)				
CC-507, B-129 B-134, CC-400	1 (SET)	1 (set)	PARTIALLY EMBEDDED			
BETHLEHEM BAR "B" CC-455, B-123, B-124 B-125, CC-401	1 (SET)	1 (set)	10 TH ROW HORIZ. 315" - 16"	These bars did not have proper clearance at 16" bulkhead	D. Bryan PW-C-2557	D. Bryan
CC-455, B-127 B-122, B-126, CC-401	1 (SET)	1 (set)				
CC-455, B-121 B-124, CC-401	1 (SET)	1 (set)				
CC-535, B-120 B-128, CC-401	1 (SET)	1 (set)				
CC-512, B-129 B-134, CC-401	1 (SET)	1 (set)	PARTIALLY EMBEDDED			

FIELD INSPECTION REPORT FOR CONCRETE EXTERIOR WALL PENETRATION STEEL

Sh. 22 of 44

PLACEMENT NO./LOCATION 1CBXW286004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-24(R3)INSPECTOR Russell J. BazzelloneDATE 7-24-81FIELD ENGINEER Walter J. BazzelloneDATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 12,7,8	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
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
S-181 C1 & C1 Layer Radials Dev. Rad. = 66.04'									
NOTE: These bars encircle S-181 radially, and cadweld to the C7 radials @ rad. = 70.6488'									
In addition some of these bars cadweld to the D1 radials projecting downward									
from S-57. Embedment will be designated as partial (P.E.) or total embedment (T.E.)									
Bethlehem Bars			S-181 C1 & C1 Layer Radials						
29	1	1	T.E. Rad. = 66.04'	None	None	N/A			
12	2	2							
30	1	1							
31	1	1	✓						
13	1	1	P.E.						
32	1	1							
14	2	2							
33	6	6							
15	4	4	✓ ✓						
1	1	1	T.E. Also cadwelds to D1 (35)						
20	1	1	T.E. Also cadwelds to D1 (55)						
21	1	1	T.E. Also cadwelds to D1 (37)						
3	1	1	T.E. Also cadwelds to D1 (56)	✓	✓	✓			

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-24(R3)INSPECTOR Russell S. BreedloveDATE 7-24-81FIELD ENGINEER Michael S. BreedloveDATE 8/4/81

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	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-57 DI #DDI Radial Layers Dev. Radius = 66.04'

NOTE: These bars encircle S-57 radially, and cadweld to the D7 radials @ rad. = 70.6458'.
In addition, some of these bars will cadweld to the C1 #DDI Radials projecting up
from S-151. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars							
44	2	2	S-57 DI #DDI Radials T.E. Rad. = 66.04'	None	None	N/A	
60	1	1					
45	1	1					
46	1	1					
61	1	1					
47	1	1					
48	1	1					
62	1	1					
49	2	2	✓				
63	1	1	P.E.				
49	3	3	P.E. ✓				
35	1	1	T.E. Also cadwelds to C1 ①				
55	1	1	Also cadwelds to C1 ②		✓	✓	✓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW236004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-25(R4)INSPECTOR Russell S. BredloweDATE 7-23-81FIELD ENGINEER W. J. [Signature]DATE 8/9/81

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-151 C2 Radial Layer Dev. Radius = 67.167'

NOTE: These bars encircle S-151 radially, and cadweld to the C6 layer at rad. = 70.0625'.
In addition, some of these bars cadweld to the D2 layer radials projecting down
from S-57. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars							
20 /	1	1	T.E. Rad. = 67.167'	None	None	N/A	
19 .	1	1					
18	1	1	√				
17	1	1	P.E.				
16	1	1					
15 /	5	5	√				
9	1	1	T.E. √				
US 9-10 11	1	1	Also cd to D2 bar (33)				
21 /	1	1	√ J	√	√	√	

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Sh. 26 of 44

PLACEMENT NO./LOCATION 1CBXW236004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-23(R4)INSPECTOR Russell L. BueschlowDATE 7-24-81FIELD ENGINEER Mike B. BuechlerDATE 8/2/81

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-57 Radial layer D2 Dev. Rad. = 67.167'

NOTE: These bars encircle S-57 radially, and cadweld to the D6 radials @ radius = 70.0625'
In addition, some of these bars cadweld to C2 radials projecting down from S-151
Embedment will be designated as partial (P.E.) or total embedment (T.E.)

Bethlehem Bars			S-57 D2 Radials				
38	2	2	T.E. Rad. = 67.167'	None	None	N/A	
39	2	2					
40	1	1					
41	1	1					
42	1	1					
43	1	1	✓				
43	1	1	P.E.				
42	1	1	✓				
37	1	1	T.E.				
36	1	1					
35	1	1					
34	1	1					
40	1	1	✓	✓	✓	✓	✓

FIELD SPECTATION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-25(R-4)

INSPECTOR Russell S. Breedlove

DATE 7-24-81

FIELD ENGINEER

DATE _____

DESIGN QUANTITIES PER SHEET

[illegible]

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW256004DRAWING NUMBER
BAR BENDING SCHEDULE NO. Bethlehem Prints 8099-26(R-3)INSPECTOR Russell J. BroadbentDATE 7-24-81FIELD ENGINEER Mike [Signature]DATE 8/2/81

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-151 C-3 LAYER RADIALS DEV. RADIUS = 67.75'

NOTE: THESE BARS ENIRCLE S-151 RADIALS, AND CROWLED TO THE C-5 RADIALS @ RADIUS=69.5'

IN ADDITION, SOME OF THESE BARS CROWLED TO THE D-3 RADIALS PROJECTING DOWNWARD FROM S-57. EMBEDMENT WILL BE DESIGNATED AS PARTIAL (PE) OR TOTAL EMBEDMENT (TE).

BETHLEHEM BARS			S-151 C-3 RADIALS				
6	1	2	TE	RAD=67.75'	None	None	N/A
5	1	2					
4		2	V				
3		2	PE				
2		2					
1		7	V				
3	✓	1	TE				
17	✓	1	TE				
4	✓	1	TE				
16 (D TO D-3)		1					
5		1					
6		1					
14		1	V		V	V	V

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION ICBAW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-26(R-3)

INSPECTOR Russell J. Breedlove

DATE 7-24-91

FIELD ENGINEER Mike R. Reardon

DATE 8/2/91

DESIGN QUANTITIES PER SHEET 6

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-57 D3 LAYER RADIALS DEV. RADIUS = 67.75'

NOTE: THESE BARS ENCIRCLE S57 RADIALLY, AND C/WELDED TO THE D-5 RADIALS AT RAD = 69.472'
IN ADDITION, SOME OF THESE BARS C/WELDED TO THE C-3 RADIALS PROJECTING UPWARD FROM S-151
EMBEDMENT WILL BE DESIGNATED AS PARTIAL (PE) OR TOTAL EMBEDMENT (TE)

BETHLEHEM BARS			S-57 D-3 BARS			
31	✓	1	1	PE	None	N/A
23	✓	1	1	PE		
22		1	1	TE	✓	
21	✓	1	1	C0 TO C3 (10)		
20		1	1			
19		1	1			
18		1	1			
24		1	1			
25		1	1			
26		3	3			
27		1	1			
28		1	1			
29		1	1	✓	✓	✓

[illegible]

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-23(R4)

INSPECTOR Russell S. Brudlow

DATE 7-24-81

FIELD ENGINEER Michael J. Suter

DATE 8/2/81

DESIGN QUANTITIES PER SHEET

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-151 CL4 #4 Radial Layer Dev. Rad. = 67.167'

NOTE: These bars encircle S-151 radially, at a radius of 67.167'
Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars			CL4 #4 Radial Layers				
CL6	1	1	T.E. Rad. = 67.167'	None	None	N/A	
CL5	1	1					
CL4	1	1	✓				
CL3	1	1	P.E.				
CL2	1	1					
CL1	5	5					
AL45	1	1	✓				
AL46	1	1	T.E.				
AL47	1	1					
AL48	1	1	✓	✓	✓	✓	✓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-32(23)INSPECTOR Russell A. BreckloweDATE 7-27-81FIELD ENGINEER [Signature]DATE 8/4/81

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-151 Radial Layer C5 Dev. Radius = 69.4792'

NOTE: These bars enclose S-151 radially, and cadweld to the C3 layer radials @ rad. = 67.75'
In addition, some of these bars cadweld to the hooked portion of the D3
radial layer projecting downwards from S-57. Embedment will be designated as partial (P.E.)
or total (T.E.)

Bethlehem Bars							
1	2	2	S-151 C5 Radial Layer T.E. Rad. = 69.4792'	None	None	N/A	
8	2	2	↓				
9	1	1	↓				
10	1	1	R.B. 7-27-81 P.E.				
11	1	1	↓				
12	2	2	P.E.				
41	2	2	T.E.				
25	1	1	↓				
26	1	1	Also cadweld to D3 layer				
42	1	1	↓				
27	1	1	Also cadweld to D3 layer				
43	1	1	↓				
28	1	1	↓				

FIELD INSPECTION REPORT FOR CONCRETE EXTERIOR WALL PENETRATION STEEL

EXHIBIT 8
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PLACEMENT NO./LOCATION LCBXL236004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Plant 8099-32(R3)

INSPECTOR Russell J. Brecklowe

DATE 7-27-81

FIELD ENGINEER [Signature]

DATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,3,4,5,6,7,8	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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
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S-57 D5 Radial Layer Dev. Radius = 69.4792'

NOTE: These bars encircle S-57 radially, and are welded to the D3 radials @ rad. = 67.75'
In addition, some of these bars are welded to the C3 tails projecting upward from
S-151. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars			S-57 D5 Radial Layer			
40 ✓	2	2	D.E. R=69.4792'	None	None	N/A
40 ✓	3	3	T.E.			
39	1	1				
38 ✓	1	1	↓			
33	1	1	Also ad to C3 layer			
27	1	1	Also ad to C3 layer			
26	1	1	Also ad to C3 layer			
34	1	1	↓			
35	1	1	P.E.			
24	1	1	P.E.			

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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Sh. 34 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-29(R2)

INSPECTOR Russell J. Bredlowe

DATE 7-27-81

FIELD ENGINEER Michael J. Bredlowe

DATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 12, 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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
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S-181 C6 Radial Layer Dev. Rad. = 70.0625'

NOTE: These bars encircle S-181 radially, and codweld to the C2 layer radials @ rad. = 67.147'.
In addition, some of these bars codweld to the D2 tails projecting downward from S-57. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars			S-181 C6 Radial layer			
3	1	1	T.E. R=70.0625'	None	None	N/A
4	1	1				
5	1	1				
6	1	1				
7	1	1				
21	1	1	↵ ↵			
22	1	1	Also cd to D2 layer			
23	1	1	Also cd to D2 layer			
24	1	1	↵ ↵	√	√	√

FIELD INSPECTION REPORT FOR CONTA. MENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-33(R3)INSPECTOR Russell L. BredeloneDATE 7-27-81FIELD ENGINEER M. J. [Signature]DATE 8/4/81

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	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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S-151 C7 Radial Layer Dev Radius 270.6438'

NOTE: These bars encircle S-151 radially, and are welded to the C1 radials @
rad. = 66.04'. In addition, some of these bars are welded to the D1 radial tails
projecting downward from S-57. Embedment will be designated as partial (P.E.) or
total (T.E.)

Bethlehem Bars						
20 ✓	1	1	S-151 C-7 Radials T.E. Rad. = 70.6438'	None	None	N/A
19 ✓	1	1				
46 .	1	1				
47 .	1	1				
48 .	1	1	✓			
49	1	1	P.E.			
50	1	1				
51 .	1	1				
52 .	1	1	✓			
53 .	1	1	Also cd to D1 layer			
55 ✓	1	1	Also cd to D1 layer			
57 ✓	1	1	Also cd to D1 layer			
59 ✓	1	1	Also cd to D1 layer	✓	✓	✓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 37 of 44

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-33(P3)

INSPECTOR Russell S. Breechlove

DATE 7-27-81

FIELD ENGINEER

DATE 3/4/00

DESIGN QUANTITIES PER SHEET

[illegible][illegible]

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 38 of 44

PLACEMENT NO./LOCATION ICBW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 9049-33/R3INSPECTOR Russell L. Bueckelme

DATE

FIELD ENGINEER Michael J. [Signature]DATE 8/1/81

DESIGN QUANTITIES PER SHEET

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTES
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5-57 D7 Radial Layer Dev. Rad. = 70.6458'

NOTE: These bars encircle 5-57 radially, and cadweld to the D1 radials @ rad. = 66.04'
In addition some of the bars cadweld to the tails of the C1 layer projecting upward
from 5-151. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars			5-57 D7 Radial Layer			
10	2	2	P.E. Rad. = 70.6458'	None	None	N/A
14 ✓	1	1	✓			
11 ✓	1	1	T.E.			
10	1	1				
13 ✓	1	1				
9	1	1				
8	1	1				
12	1	1				
29 ✓	1	1		Bars cut to clear formwork	<i>[Signature]</i> DW-C-2495	D. Bryan
30	1	1		Bar cut to clear formwork	<i>[Signature]</i> DW-C-2495	D. Bryan
31	1	1				
32	1	1				
33	1	1	✓			

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 39 of 44

PLACEMENT NO./LOCATION ICBXW236004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-33(R3)INSPECTOR Russell L. BrudloweDATE 7-27-81FIELD ENGINEER [Signature]DATE 8/1/81

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	RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
Bethlehem Bars 65	1	1	3-57 D7 layer (cont.) Also cd to C1 layer T.E. Ref. = 706431	None	None	N/A			
64	1	1	↓ I						
63	1	1	Also cd to C1 layer						
62	1	1	I I						
61	1	1	Also cd to C1 layer						
60	1	1	I I						
59	1	1	Also cd to C1 layer						
58	1	1	I I						
57	1	1	Also cd to C1 layer						
56	1	1	I I						
55	1	1	Also cd to C1 layer						
54	1	1	I I						
53 ✓	1	1	Also cd to C1 layer						
39	1	1	P.E. ↑						
38	1	1	↓ ↓	↓	↓	↓			

FIELD SPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

36.40 of 44

PLACEMENT NO./LOCATION 1CBKW296004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

BETHLEHEM PRINTS 8099-23 (R3), 23A-(R1)

INSPECTOR

Russell G. Brecklans

DATE 7-27-81

FIELD ENGINEER

DESIGN

DATE _____

3/4/81

DESIGN QUANTITIES PER SHEET

[illegible][illegible]

FIELD SPECTATION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 41 of 44

PLACEMENT NO./LOCATION 1CBXW236004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

BETHLEHEM PRINTS 8099-22

INSPECTOR Russell L. Breedlove

DATE 7-27-81

FIELD ENGINEER

DATE _____

DESIGN QUANTITIES PER SHEET

[illegible][illegible]

Rev. 1
1/81

CAROLIN POWER & LIGHT COMPANY
SHNPP

Exhibit 1
TP-05

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

PLACEMENT NO. 1CBXW 256004 PAGE 42 OF 44
DRAWING & REV. CAR-2167-G-0631 R7

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-51 Q AZ 354' 15' Q EL. 255.00'	1 TYPE I PEN. 10 #	None	None	R. Buedto
					N/A
					8-8-81
ANCHOR BOLTS					
OTHER					

CAROLINA POWER & LIGHT COMPANY

SHNPP

FIELD INSPECTION REPORT FOR EMBEDDED PLATES, PENETRATIONS, AND ANCHOR BOLTS (CONT. SHEET)

PLACEMENT NO. 1CBXW 256 004PAGE 43 OF 44DRAWING & REV. 961 7-23-91
~~CAR-6~~ CAR-2167-G-0631 R7

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE-(I OR II, AB-4, PENETRATION)	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
PENETRATION S-54	S-54 Q AZ 350'-45' Q ELEV 255'	1 TYPE II PEN. 10 #	5 Nelson Studs Bent	PW-AS-736 J. Bryan	R. Bredler D. Bryan 8-8-81
PENETRATION S-102	S-102 Q AZ 347'-15' Q ELEV 251'	1 TYPE II PEN. 18 #	11 Nelson Studs Bent	PW-AS-685 J. Bryan	R. Bredler D. Bryan 8-8-81
PENETRATION S-9	S-9 Q AZ 342'-45' Q ELEV 255'	1 TYPE II PEN. 10 #	10 Nelson Studs Bent	PW-AS-736 J. Bryan	R. Bredler D. Bryan 8-8-81
PENETRATION S-57	S-57 Q AZ 337'-45' Q ELEV 255'	1 TYPE III PEN. 48 #	None	None	R. Bredler N/A 8-8-81
PENETRATION S-33	S-33 Q AZ 327'-45' Q ELEV 251'	1 TYPE II PEN. 10 #	2 Nelson Studs Bent	PW-AS-685 J. Bryan	R. Bredler D. Bryan 8-8-81

FIELD INSPECTION REPORT FOR EMBEDDED PLATES,
PENETRATIONS, AND ANCHOR BOLTS (CONT. SHEET)

F CEMENT NO. LCBxW256004

PAGE 44 OF 44

DRAWING & REV. CAR-2167-G-C631 R7

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE-(I OR II, AB-4, PENETRATION)	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
PENETRATION S-96	S-96 Q AZ 327'-45' Q ELEV 255'	1 TYPE II PEN. 12 #	9 Nelson Studs Bent	PW-AS-736 D. Bry	R. Brudlow D. Bryon 8-8-81
PENETRATION S-34	S-34 Q AZ 324'-15' Q ELEV 251'	1 TYPE II PEN. 10 #	2 Nelson Studs Bent	PW-AS-685 D. Bry	R. Brudlow D. Bryon 8-8-81
PENETRATION S-97	S-97 Q AZ 317'-15' Q ELEV 255'	1 TYPE II PEN. 12 #	4 Nelson Studs Bent	PW-AS-736 D. Bry	R. Brudlow D. Bryon 8-8-81

Rev. 1
7/81

TP-24
Exhibit 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

EMBEDDED PIPING INSPECTION FORM

PLACEMENT NO. 1CBXW256004

DRAWING(S) (NO. & REV.) 2167-G-0631 R/7

2168-G-601 R/6, PW-M-2216 N/A

Checklist

(✓) Acceptable

(N/A) 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
AUG 18 1981
RECEIVED
SHNPP CONSTR. Q A UNIT

COMMENTS: No EMBEDDED Pipe.

C.I. Inspector EB Butler Date 8-10-81

C.I. Supervisor CH HAN Date 8/13/81

1C BXW256004

Rev. 7
4/81

TP-15
Exhibit 2

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW2846004

LOCATION Cont. #1 Ext. Wall

PLACED 8/11/81

A2. 318' to 46', el. 281' to 296'

END OF CURE 8/18/81

CURE/PROTECTION REQUIREMENTS Extended

CHECKLIST	REMARKS	INITIALS
<u>FORM & SHORING REMOVAL</u>	Forms removed 8-25-81	RLB
<u>CONCRETE REPAIRS REQUIRED</u>	Cosmetic Only	RLB
<u>CURING/PROTECTION</u>		
A. Water	Sat.	RLB
B. Curing Compound	Sat. - Kurez confirmed 8-13-81	RLB
C. Ponding	N/A	RLB
D. Burlap	N/A	RLB
E. Wet Sand	N/A	RLB
F. Polyethylene	N/A	RLB
G. Temperature	Sat - 7 days > 90°F	RLB
<u>EXTENSIONS (DR's, Speed Letters, Poor Practice Condition Reports)</u>		
A. Cure	N/A	RLB
B. Protection	N/A	RLB
<u>FINISH</u>		
A. Steel Trowel	N/A	RLB
B. Wood Float	N/A	RLB
C. Broom	N/A	RLB
D. Hair Brush	N/A	RLB
E. Rubber Float	N/A	RLB
F. Roughened Surface	Sat	RLB

CONSTRUCTION INSPECTOR Russell J. Broadlow
CONSTRUCTION INSPECTION SUPERVISOR M.D. Sealey

DATE 8-25-81
DATE 8-25-81

LOCATION	CONTAINMENT BLDG #

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

[illegible]

SLUMP REQUIRED 0-3 MAX in.
 AIR REQUIRED 4-8 %
 DESIGN MIX # USED M-80
 DESIGN STRENGTH 5000 PSI
 FOR PLACEMENT
 FIELD QA/QC INSPECTOR Steven M. Laska DATE 8-11-81
 LAB QA/QC INSPECTOR Angie Cato DATE 9-8-81
 QA/QC SPECIALIST Engaine Kelly DATE 9-9-81