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June 29, 1984

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
CAROLINA POWER & LIGHT COMPANY)	Docket No. 50-400 OL
and NORTH CAROLINA EASTERN)	50-401 OL
MUNICIPAL POWER AGENCY)	
)	
(Shearon Harris Nuclear Power)	
Plant, Units 1 and 2))	

APPLICANTS' RESPONSE TO
EDDLEMAN PROPOSED CONTENTIONS 65-A AND 65-B

I. Introduction

On June 14, 1984 intervenor Eddleman filed a pleading entitled "New Eddleman Contentions 65-A etc. (Structural Integrity Questionable Due to Voids from Out of Specification Slump and Improper Vibration Technique and Inadequate Strength of Harris Containment Concrete)," (hereafter "Eddleman Petition") which sets forth two new contentions alleging, inter alia, that the structural integrity and waterproof integrity of the Harris Plant containment building is suspect. Mr. Eddleman's new contentions are based upon statements contained in the Affidavit

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of Charles C. Stokes (Stokes Affidavit), an asserted "structural and concrete expert." The Stokes Affidavit, in turn, is based upon Mr. Stokes' review of documents produced by Applicants to Mr. Eddleman during discovery on Eddleman Contention 65.1/ For the reasons set forth below, Applicants oppose the admission of these two late-filed contentions.

II. Standards for Admission of Late-Filed Contentions

In addition to meeting the basis with reasonable specificity requirement for contentions of Section 2.714(b) of the Commission's Rules of Practice,^{2/} the admission of late-filed contentions can only be granted upon the balancing of the following factors:

- i. Good cause, if any, for failure to file on time;
- ii. The availability of other means whereby the petitioner's interest will be protected;
- iii. The extent to which the petitioner's participation may reasonably be expected to assist in developing a sound record;

^{1/} The Stokes Affidavit is appended to "Wells Eddleman's Response to Summary Disposition Motion on Eddleman 65 (Concrete)," also filed on June 14, 1984.

^{2/} As detailed in Section III, *infra*, it is Applicants' position that the Stokes Affidavit, and the underlying documents upon which Mr. Stokes relies, do not form a sufficient basis upon which to admit Contentions 65-A and 65-B and, further, do not set forth material facts sufficient to defeat Applicants' Motion for Summary Disposition of Contention 65.

- iv. The extent to which the petitioner's interest will be represented by existing parties; and
- v. The extent to which the petitioner's participation will broaden the issues or delay the proceeding.

10 C.F.R. §§ 2.714(a) and (b); Duke Power Company (Catawba Nuclear Station, Units 1 and 2), CLI-83-19, 17 N.R.C. 1041 (1983). Applicants contend that consideration of these factors weighs against admission of Eddleman Contentions 65-A and 65-B.

Mr. Eddleman's only discussion of the "good cause" factor is his claim that the bases for the new contentions (the Stokes Affidavit and the concrete pour packages) had been previously unavailable. Eddleman Petition at 2. First, Applicants do not believe that the appearance of the Stokes Affidavit is the type of previously unavailable "new information" contemplated by the Catawba decision (and the underlying line of cases dealing with late-filed contentions) as required to support the non-timely filing of contentions. The affidavit was prepared under Mr. Eddleman's direction for use in this proceeding. It did not suddenly appear in the public domain for independent reasons. A party cannot cause the preparation of a document and then argue that its previous unavailability satisfies the good cause factor for filing an untimely contention.

Second, the discovery material on which the Stokes Affidavit is based was available to Mr. Eddleman long ago. To the extent that information garnered through discovery on one

contention is fair game as a basis for asserting a new contention, then the concept of "availability" -- normally applied to the public availability of the information -- must apply as well to the availability of discovery on the original contention. In short, intervenors posing late-filed contentions based on discovery should be held to the same standards of diligence in pursuing that discovery as is required in their review of publicly available documents. Catawba, supra, 17 N.R.C. at 1045. Here, the discovery material consists of copies of concrete pour packages which Mr. Eddleman did not even request until he filed his second round of discovery requests on Contention 65 on January 30, 1984 -- after Applicants filed for summary disposition of this contention and nearly one and one-half years after this contention was admitted. See "Applicants' Response to Wells Eddleman's Motion to Compel Discovery on Eddleman Contention 65" (May 1, 1984) at 2-4, 8 n.9. Mr. Eddleman, like every other party to NRC proceedings, is obligated to pursue his contentions (including discovery on those contentions) in an expeditious and diligent manner. See generally, Statement of Policy on Conduct of Licensing Proceedings, CLI-81-8, 13 N.R.C. 452 (1981). In this case, it is clear that the subject pour packages were available for review by Mr. Eddleman (and therefore by Mr. Stokes) immediately after the issuance of the Board's September 22, 1982 Memorandum and Order -- if Mr.

Eddleman had only requested them. It is equally clear that had Mr. Eddleman done so, he could have arranged for timely review by an expert rather than, as is now the case, coming in at the eleventh hour with asserted new contentions. Applicants should not now be made to suffer potential delays and broadening of the issues because Mr. Eddleman waited until 1984 to seek this information.

In any case, and as acknowledged by Mr. Eddleman,^{3/} however, the concrete pour packages which were reviewed by Mr. Stokes were made available to Mr. Eddleman on March 23, 1984. See "Applicants' Response to Wells Eddleman's Request for Production of Documents (Contention 65)" (March 23, 1984). Thus, in accordance with the Licensing Board's previous rulings, any new contentions (or revisions to admitted contentions) based upon information contained in the pour packages should have been filed no later than April 30, 1984. See Carolina Power & Light Company, et al. (Shearon Harris Nuclear Power Plant, Units 1 and 2), LBP-82-119A, 16 N.R.C. 2069, 2073 (1982); see also Catawba, supra, CLI-83-19, 17 N.R.C. at 1043-44 (in determining whether good cause exists for the late filing of a contention, the degree of promptness in which a contention is tendered after a document becomes

^{3/} Mr. Eddleman notes that he has had the pour packages for "only" approximately two and one-half months. Eddleman Petition at 2.

available is to be considered). Mr. Eddleman provides absolutely no excuse or explanation for his failure to meet that deadline. Accordingly, Applicants submit that Mr. Eddleman has failed to provide good cause for the late filing of proposed Contentions 65-A and 65-B.

Factors (ii) and (iv) deal with the protection of the petitioner's interest in the subject contention and the extent to which the petitioner's interest is already represented by existing parties.^{4/} As to factor (iv), it appears that the precise issues which Mr. Eddleman seeks to litigate under proposed Contention 65-B have not been previously raised in this proceeding. However, the subject matter of proposed Contention 65-A -- the possibility of concrete voids due to out of specification slump, inadequate vibration and/or inadequate strength -- should be viewed merely as a different asserted basis for previously admitted Contention 65, which alleged that concrete voids might exist, based solely on the fact that Daniel Construction Company was the construction contractor.^{5/}

^{4/} These two factors are to be given less weight than the other factors in considering late-filed contentions. South Carolina Electric & Gas Company (Virgil C. Summer Nuclear Station, Unit 1), ALAB-642, 13 N.R.C. 881, 895 (1981).

^{5/} Indeed, Applicants have previously addressed the standards for concrete slump, vibration and strength required for the Harris Plant containment building. See Affidavit of Roland M. Parsons, attached to Applicants' Motion for Summary Disposition of Eddleman Contention 65 (January 18, 1984), at 4-8; Applicants' Answers to Interrogatories 65-1(a)-(c), 65-4(e)-(g) (May 12, 1983).

However, as to factor (ii), it is clear that the Staff -- contrary to Mr. Eddleman's unsupported allegation that the "staff is ducking these issues completely" -- has conducted in-depth reviews of Applicants' concrete placement records and has identified no significant problems.^{6/} See Affidavit of Paul R. Bemis, ¶¶ 3-6, attached to "NRC Staff Response in Support of Applicants' Motion for Summary Disposition of Wells Eddleman's Contention 65" (February 13, 1984).

In support of Mr. Eddleman's argument that his litigation of these proposed contentions would assist in the development of a sound record (factor iii), Mr. Eddleman states that he has "an expert [witness Charles Stokes] working on this. I can do technical cross-examination" Eddleman Petition at 2.^{7/} Applicants seriously question the extent to which Mr. Stokes'

6/ Applicants recognize that the Licensing Board cannot simply assume that the NRC Staff will adequately protect Mr. Eddleman's interest. Washington Public Power Supply System (WPPSS Nuclear Project No. 3), ALAB-747, 18 N.R.C. 1167, 1173-75 (1983). In this case, however, the Staff has previously investigated and passed favorably upon the quality of concrete placements.

7/ In WPPSS, supra, the Appeal Board found a petitioner's statement describing its previous experience in NRC proceedings and identifying a witness as "manifestly inadequate" to satisfy factor (iii). ALAB-747, 18 N.R.C. at 1177 (1983). Applicants assume that, by referencing the Stokes Affidavit, Mr. Eddleman is attempting to meet the criteria identified therein to satisfy the burden of persuasion required by this factor. Id. However, as detailed below, the factual misstatements and mischaracterizations in the Stokes Affidavit doom this effort.

asserted expertise can assist in developing a sound record on issues of concrete integrity. Appended hereto as Attachment 1 is a copy of Mr. Stokes' professional qualifications;^{8/} as can be seen from that document, while Mr. Stokes has been involved in piping/structural steel analyses and reviews for various nuclear power plants, he has no experience in concrete design or construction of nuclear plants. Further, as discussed in detail in Section III, infra, Mr. Stokes' review of the Harris Plant concrete pour packages reveals a number of infirmities in his review, not the least of which is his apparent lack of knowledge regarding concrete placement, curing, finishing and testing procedures. Accordingly, in that the Stokes Affidavit does not raise a significant issue necessary to the sound development of the record and also displays his lack of expertise, Applicants believe that consideration of factor (iii) weighs against admission of the proposed contentions.

The last factor to be evaluated when considering the admission of a late-filed contention is the extent to which participation will broaden the issues or delay the proceeding. Mr. Eddleman estimates that inclusion of these contentions would increase the number of issues in the safety hearing by

^{8/} This statement was included in the transcript of the 288th General Meeting of the Advisory Committee on Reactor Safeguards (April 6, 1984), at which Mr. Stokes made a statement concerning quality assurance/piping issues at the Diablo Canyon plant.

40%. Eddleman Petition at 2. While Applicants do not necessarily agree with Mr. Eddleman's estimate,^{9/} admission of these proposed contentions would require preparation of additional testimony and has the potential of adding several days to the safety hearings. As to delay, Applicants note that testimony on safety contentions is due to be filed on August 9, 1984. Mr. Eddleman is seeking over two months for discovery on these issues, resulting in obvious schedule delays. Applicants believe that admission of the two proposed contentions carries with it the potential for creating serious schedule disruptions.

In sum, then, Applicants believe that a balancing of the five factors enumerated in 10 C.F.R. § 2.714(a)(1) weighs against admission of proposed Contentions 65-A and 65-B.

III. Basis for Proposed Contentions 65-A and 65-B

In order to be admitted as an issue in controversy, the basis for a proposed contention must be set forth with reasonable specificity. 10 C.F.R. § 2.714(b); see also, in this docket, LBP-82-119A, 16 N.R.C. 2069, 2070-71 (1982). The sole asserted basis for proposed Contentions 65-A and 65-B is

^{9/} Mr. Eddleman's list of contentions to be litigated at the safety hearing ignores Joint Contention VII(4), and apparently assumes that all of the pending motions for summary disposition are granted and that none of the pending but deferred contentions are admitted.

the Stokes Affidavit, reflecting Mr. Stokes' review of documents produced to Mr. Eddleman during discovery on his Contention 65. Applicants submit that there is no basis in fact for the conclusions reached by Messrs. Stokes and Eddleman. Thus, while recognizing that Licensing Boards should not reach the merits of a contention at the initial pleading stage (id. at 2071),^{10/} Applicants herein respond to the specific allegations set forth in the Stokes Affidavit, and show that Mr. Stokes has both misunderstood and misconstrued information contained in the concrete pour packages.

A. General/Pour Package Information

In order that the Board may better understand the following response to Mr. Stokes' statements, Applicants are appending hereto, as Attachments 2-14, copies of the pour packages reviewed by Mr. Stokes.

First, as is apparent from the face of the Concrete Placement Reports (CPRs), Mr. Stokes has, to a great extent,

^{10/} Licensing Boards are not, however, prohibited from scrutinizing and rejecting proposed contentions that are based on factual inaccuracies or misrepresentations. Houston Lighting and Power Company (Allens Creek Nuclear Generating Station, Unit 1), ALAB-590, 11 N.R.C. 542, 548 (1980). See also Philadelphia Electric Company (Limerick Generating Station, Units 1 and 2), LBP-82-43A, 15 N.R.C. 1423, 1504-05 (1982) (contention rejected because of factual inaccuracies); Duke Power Company (Catawba Nuclear Station, Units 1 and 2), LBP-82-107A, 16 N.R.C. 1791, 1804 (1982) (contention rejected because it seriously mischaracterized the DES).

misunderstood the format of these reports. For example, throughout his affidavit, Mr. Stokes has equated the notation "exposed aggregate" to evidence of honeycombing or voids in the concrete. See Stokes Affidavit at 3, 4, 5, etc. The only references to exposed aggregate are in the upper portion of the various CPRs which indicate the type of finish required for the particular placement. As is clear from the face of the CPRs, this portion of the report is completed well in advance of the actual placement, for planning purposes, in accordance with the requirements of Work Procedure WP-05 and Technical Procedure TP-15. See, e.g., Attachment 2 at 1 (pre-checkout data dated 10/23/78, placement dated 12/06/78). Further, an exposed aggregate finish is a common concrete construction practice which allows a successive lift of concrete to be more securely bonded to previous lifts. As such, an exposed aggregate finish does not indicate either inadequate vibration practices or the potential for concrete voiding.

Secondly, it is evident that Mr. Eddleman has failed to provide Mr. Stokes with relevant information that would have answered several of Mr. Stokes' concerns. For example, Applicants' answer to Interrogatory No. 65-4(g) provided information regarding the slump requirements for containment basemat concrete (one to four inches, with a tolerance of plus or minus one inch).

B. Placement ICBXW219001 (Attachment 2)

Mr. Stokes claims that the slump for this placement was out-of-specification. Affidavit at 3. This is incorrect -- the requirement of four inches shown on the concrete test report is the maximum slump allowed (plus a one inch tolerance). The lower slumps shown on the CPR are not out-of-specification and, indeed, lower slumps are encouraged by the governing Ebasco specification.^{11/}

Mr. Stokes next asserts that the compressive strength cylinders are not in compliance with the governing specification. However, as can be seen from the CPRs, the three sets of samples were all above the required strength. Mr. Stokes further misunderstands the section of the quoted specification: this specification requires that samples from the same set be within 5% of their average (which these clearly do). The specification does not require the different sets to be within the 5% criterion.

C. Placement ICBXW242001 (Attachment 3)

As to Mr. Stokes' allegation of inadequate vibration, as discussed above, completion of the upper portion of the CPR was made prior to concrete pre-placement inspection (see left-hand

^{11/} Ebasco Specification CAR-SH-CH-6, "Concrete," at 17-18 (§ I, ¶ 11.9), which was produced to Mr. Eddleman pursuant to Applicants' March 23, 1984 discovery responses.

side of CPR) in accordance with WP-05 and TP-15. Statements made in this portion of the report are anticipated weather conditions, proposed placement methods, anticipated curing requirements, etc., as indicated on the report. Anticipated weather conditions, along with actual weather conditions, control the curing methods per ACI 349, 308, 306, 305 and Ebasco specification CAR-SH-CH-6.

Mr. Stokes next attempts to raise questions regarding cosmetic repairs to this placement. As a consequence of preplacement review, it was determined that steel shake rods (vibrator probes) would be used to properly vibrate concrete. Following concrete formwork removal, as indicated in the pour package, these rods were cut off below the concrete neat line and cosmetically patched in accordance with applicable work procedures, as stated on the concrete defects sheets.

D. Placement ICBXW256004 (Attachment 4)

Mr. Stokes here attempts to draw some negative inference from the fact that workers were warned by the Construction Inspector regarding vibration techniques. However, since the maximum slump by design was eight inches, the Construction Inspector was performing his duty by reminding the concrete placement workers of their consolidation techniques. The Inspector found consolidation practices satisfactory.

Mr. Stokes next claims that the slump variance shown on the Concrete Test Report does not meet the requirements of the ACI code. ACI 349 sections 4.2.2 and 4.2.3 refer to "laboratory trial batches," i.e., when qualification tests are being performed for a concrete mix design, not regular production batches by a batch plant after a mix design has been approved. Therefore, a material control problem does not exist as this ACI section is not applicable to this regular production batch.

In one of his greatest leaps of unexplained logic, Mr. Stokes next attempts to equate a notation that the weather was "overcast" to a greater potential for concrete voids. Weather conditions recorded on QA-24, "Concrete Test Report" are personal observations of the QC concrete tester and do not control the inspection responsibilities of Construction Inspection and Quality Assurance personnel who are observing the concrete placement. Applicants fail to understand the basis for Mr. Stokes' statement.

E. Placement ICBXW276002 (Attachment 5)

Mr. Stokes again asserts that the slump for this placement is out-of-specification. The indicated slump is three and three-quarters inches, which is less than the maximum allowable of four inches. Maximum slump represents the highest value, not the only permissible value of slump (see discussion under A

and B above). With respect to Mr. Stokes' statement that the weather has not been indicated on the test report, Applicants point out that, on the concrete placement report, weather is noted as "normal".

F. Placement ICBXW290001 (Attachment 6)

The first new issue raised on this placement by Mr. Stokes is the notation that a worker was warned about vibration techniques. However, the Construction Inspector was merely performing his job by observing and correcting any unacceptable concrete placement techniques. The same Inspector also stated "Placement was very smooth and sat. [satisfactory]."

Mr. Stokes next claims that the low strength for specimen 9323 renders this placement unacceptable. This specimen, however, was not taken from the concrete batch used for this placement -- as the pour package clearly indicates. Laboratory specimen numbers 8176, 8381, 9323 (referenced by Mr. Stokes), and 9397 represent concrete mix design number 72 which was placed in other placements prior to and following this containment wall placement. Ebasco specification CAR-SH-CH-6 and ACI 214 require concrete strength evaluation based on consecutive batches of a specific concrete mix design. Lab specimen number 9265 was the only concrete specimen (as indicated on the QA-24 Concrete Test Report) which was placed in this containment exterior wall placement. Engineering

evaluation of core samples tested on 8/8/83 and 8/23/83 in accordance with ACI 349, ACI 214, and PW-C-3769, included in the pour package, found the placement to be acceptable. The strength evaluation and engineering evaluation of PW-C-3769 was adequate to resolve the low strength of 4865 psi for specimen 9265 in accordance with governing specifications.

G. Placement ICBXW308001 (Attachment 7)

As stated in the placement package, the strength evaluation of specimen number 10664 was performed in accordance with Ebasco specification CAR-SH-CH-6 and ACI 214 and found to be acceptable. Mr. Stokes has not pointed to any data to indicate that the criteria set forth therein are somehow unacceptable for performing such evaluations.

Applicants are unable to determine Mr. Stokes' basis for stating "inadequate vibration" and possible existence of voids. The placement checklist indicates consolidation was satisfactory.

H. Placement ICBXW336003 (Attachment 8)

Applicants are again unable to determine Mr. Stokes' basis for stating that "vibration problems still not corrected." No such statement appears in the pour package and the placement checklist indicates consolidation was satisfactory.

As was the case with G above, the placement package strength evaluation of specimen number 10719 was performed in

accordance with Ebasco specification CAR-SH-CH-6 and ACI 214 and was found to be acceptable.

I. Placement ICBXW386001 (Attachment 9)

Mr. Stokes' assertion of "documentation problems with the mix code" is an attempt to blow out of proportion changes made to the designated mix (i.e., from one mix type to another) prior to the placement. In accordance with WP-05, concrete mix design can be changed prior to placement operations to suit the placement conditions, as determined by the area engineer. The notations on the CPR are merely reflective of this revision.

As to Mr. Stokes' "concern" regarding the fact that the required strength is only 4000 psi, Applicants note that, by design, the required concrete strength above elevation 376 feet on containment is 4000 psi, as opposed to the exterior wall below elevation 376 feet and above the base mat, where 5000 psi was required.

J. Placement ICBXW396002 (Attachment 10)

As with similar previous allegations made by Mr. Stokes, Applicants are unable to determine his basis for stating that "vibration problems" exist. The placement checklist indicates consolidation was satisfactory.

K. Placement ICBXW425001 (Attachment 11)

Mr. Stokes again makes the totally unsupported statement that a "vibration problem" exists. Contrary to this allegation, the placement checklist indicates consolidation was satisfactory and further notes that the placement was "smooth [and] satisfactory."

L. Placement ICBXW444001 (Attachment 12)

Mr. Stokes' statements regarding this pour evidence his refusal to accept written documentation of the acceptability of any concrete placement. Rather, Mr. Stokes continues to make unsupported assertions that "vibration problems" exist. Indeed, as noted in the Affidavit, the placement checklist indicates consolidation was satisfactory. A careful review of placement checklists for each placement shows that the construction inspector observed consolidation and found it was satisfactory.

Mr. Stokes' next statement that this is the only placement for which it was noted that the vibrators worked well incorrectly implies unacceptable vibration techniques in the other pours. The reference to "form vibrators and head box arrangements" was a response to a special concrete placement technique approved by the design engineer, Ebasco. Thus, the fact that a special vibration technique was noted to have worked well does not mean that the "normal" vibration

techniques used in other placements were not equally satisfactory.

As to Mr. Stokes' finding regarding low air content, as indicated in the pour package, a Discrepancy Report was issued by Construction Inspection personnel. Subsequently the Discrepancy Report was answered, and the engineering resolution was accepted by Construction Inspection personnel.

M. Placement ICBSL216001 (Attachment 13)

This was one of the two concrete placements which made up the containment basemat (along with pour ICBSL216002).^{12/} Both of these pours were made following the discovery of damage to the waterproofing membrane and waterstop located below and adjacent to the basemat. See FSAR Figure 3.8.1-1, attached to Affidavit of Roland M. Parsons (January 18, 1984), for the location of the membrane and waterstop. However, as noted on the concrete placement reports and inspection reports for these two placements, the damaged waterstop and membrane were repaired in accordance with procedures and the repairs were approved by Construction Inspection and QA/QC personnel prior

^{12/} Applicants had originally planned to construct the basemat in six separate pours (ICBSL216001 through ICBSL216006). The change to two pours was documented in Field Change Requests C-116, C-137 and C-210 (produced to Mr. Eddleman in accordance with Applicants' March 23, 1984 discovery responses). The references to other placement numbers on inspection reports in these two pour packages merely indicate that preplacement inspections were begun prior to this change.

to concrete placement. Mr. Stokes conveniently overlooks this documentation of the repairs.

Applicants do not understand the point Mr. Stokes is attempting to raise here concerning the clearance for the asbestos cement board. However, Ebasco drawings CAR 2167-G-0610 and CAR 2167-G-0611, provided to Mr. Eddleman in accordance with Applicants' May 12, 1983 discovery responses, clearly show the as-built location of these boards. (The 3/8 inch asbestos cement board was utilized to protect the membrane waterproofing during cadwelding of rebar and other related activities which could potentially damage the membrane.)

Mr. Stokes next asserts that 29 of 64 concrete samples had out-of-specification slump. However, Ebasco specification CAR SH-CH-6 Section I, paragraph 11.9, and Applicants' response to Interrogatory No. 64-4(g) (May 12, 1983) clearly states that the slump range for containment base mat concrete was one to four inches, with a tolerance of plus or minus one inch. Therefore, the subject slump values are clearly not out-of-specification.

Finally, reference is made to inadequate vibration. Again, Applicant is unable to determine Mr. Stokes' basis for stating that inadequate vibration exists, when the Construction Inspector noted consolidation was satisfactory on the placement checklist.

N. Placement ICBSL216002 (Attachment 14)

Applicants incorporate by reference their response to M, above, on the issues of waterstop damage, slump specification and vibration, which are equally applicable to this second basemat pour.

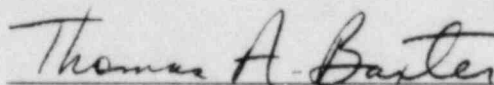
Mr. Stokes attempts to imply that the discovery of a void in this pour is a previously unrecognized safety concern. However, as Mr. Eddleman is well aware, Applicants have previously provided him with extensive information regarding the discovery and repair of this void, and addressed it in the pending Motion for Summary Disposition of Contention 65. See Affidavit of Roland M. Parsons (January 18, 1984) at 9-10. As indicated in the Stokes Affidavit, the pour packages show that the void was investigated following QC field report No. 16Q and post placement inspection by CI and was found to have the dimensions as indicated by Mr. Stokes. After chipping operations were completed, it was determined that the void had the dimensions depicted in FCR-C-288 and FCR-C-292 (included in the pour package), which outlined the Ebasco approved repair procedure. Subsequently, repairs were made in accordance with the procedure and follow-up reports were prepared outlining acceptance criteria. Mr. Stokes has not set forth any information which disputes the adequacy of the repair.

IV. Conclusion

The above discussion makes clear that the allegations of proposed Contention 65-A are based on misunderstandings and misconstructions of the information contained in the pour packages. The subject containment concrete placements suffer from none of the inadequacies alleged by Mr. Eddleman. Rather, as documented by Applicants, the containment concrete placements have sufficient structural integrity to assure they will perform as required. Further, the problems alleged in proposed Contention 65-B can only be considered non-issues. The damage to waterproofing membrane and waterstop was documented and repaired in accordance with governing procedures and specifications.

Accordingly, the Board should reject proposed Contentions 65-A and 65-B, as without basis and pursuant to a balancing of the factors governing late-filed contentions.

Respectfully submitted,



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Dated: June 29, 1984

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

'84 JUL -3 A10:10

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and NORTH CAROLINA EASTERN)
MUNICIPAL POWER AGENCY)

(Shearon Harris Nuclear Power)
Plant, Units 1 and 2))

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Docket Nos. 50-400 OL
50-401 OL

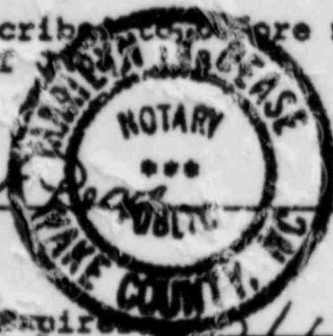
APPIDAVIT OF ROLAND M. PARSONS

County of Wake)
) as:
State of North Carolina)

Roland M. Parsons, being duly sworn according to law, deposes and says that he is Project General Manager - Shearon Harris Nuclear Power Plant of Carolina Power & Light Company; and that the facts set forth in Section III of "Applicants' Response to Eddleman Proposed Contentions 65-A and 65-B" are true and correct to the best of his information, knowledge and belief.

Roland M. Parsons
Roland M. Parsons

Sworn and subscribed to before me
this 29 day of July 1984



Maureen Y. Deas
Notary Public

My Commission Expires 2/19/85

ATTACHMENT 1

CHARLES C. STOKES, P.E.
Route 1, Box 223
Cottonwood, AL 36320
(205) 677-5078
(805) 773-1813 Leave Message
(805) 595-7540 or 595-7646

EXPERIENCE:

- 11/82 - Present Field Engineer
Accepted assignment to Pacific Gas and Electric Company's Diablo Canyon Nuclear Project Units 1 & 2. Placed in on-site engineering group. Performed pipe stress and pipe support design calculations. Wrote paper on how to design and represent flare-bevel, flare-v, skewed welds and other partial and full penetration welds on drawings to comply with AISC and AWS prequalified welds for structural and tube steel. Was assigned to Pipe Support Design Tolerance Clarification Group to authorize changes required for installation of supports and was responsible for snubber substitution on both units.
- 2/82 - 5/82 Pipe Stress/Support Engineer
Field consultant on Mississippi Power & Light's Grand Gulf 1 for RCI Inc. Assigned to Control Rod Drive System to assist ECHO pipe stress group and RCI hanger group in resolving interference problems by suggesting alternate design. Responsible for ECN's of as-builts and alternate designs and supervising drafting. Assisted QC and Construction personnel in interpretation of drawings. BWR Plant and Class 1 pipe.
- 6/81 - 2/82 Mechanical Engineer
Assigned to the Mechanical Engineering Department of the Lawrence Livermore National Laboratory as a stress analyst on the injector of the Advanced Test Accelerator (ATA). Performed calculations on the injector housing, epoxy insulators, accelerator cells, cathode, anode, support structure and handling fixtures for fabrication and installation. System involved vacuum-oil interfaces and extremely strong magnetic and radiation fields. Injector constructed of aluminum and stainless steel with insulators of a special fill-epoxy compound. Also made design changes to epoxy insulators on Experimental Test Accelerator (ETA).
- 10/80 - 5/81 Pipe Stress/Support Engineer
Contracted to Nuclear Services Corporation, a division of Quadrex Corp. in San Jose, CA. Performed pipe stress calculations and design of safety related small bore piping supports. SAGS program was used in analysis of complex supports. Was assigned to Zimmer Nuclear Plant as a member of special pipe stress and hanger analysis group. Class I, II, III pipe.
- 6/80 - 10/80 Pipe Support Engineer
Assigned to Bechtel Power Corporation's Civil Structural group in Gaithersburg, MD working on the Davis-Besse Project. Checked and made base plate and anchor bolt stress calculations and modifications for anchors and pipe hangers. ANSYS finite element program utilized to account for plate flexibility and bolt elongation. Strudl was used for analysis of complex frames. Other in-house programs were also used.

EXPERIENCE: (Cont.)

7/75 - 5/80

Project/Design Engineer

Southern Company Services Inc., Birmingham, AL. Wrote two specifications concerning modifications to Georgia Power's Hatch Nuclear Plant. The main item modified was the Reactor Heat Discharge System in the Torus.

Designed the structural steel truss for Georgia Power's Scherer Plant coal conveyor system Unit No. 2 including details and bents.

Redesigned the precipitator structural steel on Alabama Power's Miller Steam Plant to add precipitator roof enclosure. Elastic analysis performed to allow for thermal growth and to resist wind forces. Strudl analysis, code check and design was used.

Acted as a nuclear pipe support stress analysis, designer and checker on Alabama Power's Farley Nuclear Plant. Performed stiffness calculations and checks by hand and computer. Strudl was used for analysis of complex structures. Also worked in the field supplying support information to office personnel. Work performed in accordance with NRC 79-02 and 79-14. PWR class I, II, III pipe.

Served as civil material coordinator on Georgia Power's Vogtle Nuclear Plant. Was responsible for civil quantity take-offs for project construction scheduling, financing and material purchases. Computer storage and retrieval of information was used.

Did ANSYS finite element analysis of powerhouse substructure on Alabama Power's Harris Dam. Supervised drafting. Checked drawings and checked calculations on superstructure concrete.

Designed outdoor structures on Alabama Power's Miller Steam Plant. These included rail yard, truck and ash pipe bridges, ash trench system and off-site make-up water system. Responsible for checking calculations. Supervising drafting and coordinating field and inter-office disciplines.

PROFESSIONAL LICENSES AND AFFILIATIONS:

Registered Professional Engineer, State of Alabama (12786)
Registered Professional Engineer, State of Florida (29985)
Registered Professional Engineer, State of Georgia (12340)

EDUCATION:

- Birmingham School of Law, Birmingham, AL, Juris Doctorate Degree, May 1980.
- Auburn University, Auburn, AL, BCE Degree, May 1975.
- Massey Institute of Technology, Jacksonville, FL, correspondence accounting.

The facts stated above are true and accurate.

CHARLES C. STOKES, P.E.

**CONCRETE
PLACEMENT
REPORT**

SHNPP

FILE

PLACEMENT NUMBER 1CBXW219001

LOCATION (INCLUDE ELEV. IF IN BLDG.) <u>Unit #1 C.B. Exterior Wall Elev 28.5</u>		SCHEDULED DATE: <u>12/2/78</u>	
TYPE PLACEMENT <u>Exterior Wall</u>	ESTIMATED QUANTITY <u>230 yds</u>	TEMP LIMIT <u>55° AS placed</u>	SLUMP LIMIT <u>4"</u>
PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)		SEISMIC CLASS I <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF.		UNFORMED SURF.	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<u>Exposed Agg.</u>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	NUCLEAR**	<input checked="" type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	** Nucac 10 on Ext wall face			<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS		COMMENT & CLARIFICATION TO PROPOSED METHODS	
PRIMARY MASONRY DWG. NO. <u>2167-G-0610</u>	SPEC. FINISH <u>Exposed Aggregate</u>	<u>At C.S. the concrete must be free of laitance & roughened until the aggregate is exposed for a depth of 1/2"</u>	
DES. STRENGTH <u>5000 psi</u>	DESIGN MIX CODE <u>M72</u>	NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE BY: <u>Ken Fuller</u> TITLE: <u>Area Tech</u> DATE: <u>10-2</u>	

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			QUALITY CONTROL		QUALITY ASSURANCE			
	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE	INSPECTOR
1 CONTACT SURFACES	WP-5	J. C. B.	J. E.	12/2	CHA				
2 FORMS	WP-22	J. C. B.	J. E.	12/2	CHA				
3 REINFORCING STEEL	WP-11	J. C. B.	J. E.	12/2	CHA				
4 EMBEDS	NA	N/A	NA	12/2	CHA				
5 MECHANICAL	NA	J. C. B.	NA	11/16	J. C. B.				
6 ELECTRICAL	NA	J. C. B.	NA	11/21	J. C. B.				
7 CADWELDS	WP-1	J. C. B.	NA	12/2	CHA				
8 N D E	NA	NA	NA	12/2	CHA				
9 CLEANUP	WP-5	J. C. B.	NA	12/4	*CHA				
10 Bond breaker	REV 550-112	J. C. B.	NA	12/2	CHA				
11									
12									
13									
14									

FOR INFORMATION ONLY

CONSTRUCTOR SIGNOFF (AREA SUPT) <u>J. C. B.</u> DATE: <u>12/2/78</u>	C. SIGNOFF <u>J. E.</u> DATE: <u>12/2/78</u>	J.A. SIGNOFF <u>J. C. B.</u> DATE: <u>12-2-78</u>
DESIGN APPROVAL <u>Ken Fuller</u> DATE: <u>12/1/78</u>	TIME OF START <u>0930</u>	DATE PLACED <u>112-016-78</u>

YDS. CONCRETE DELIVERED	<u>0237</u>	YDS. NOT PLACED IN THIS PLACEMENT	<u>14</u>	YARDS WASTED	<u>0.5</u>
YARDS GROUT	<u>02</u>	YDS. PLACED IN THIS PLACEMENT	<u>0225</u>	YARDS PLACED ELSEWHERE**	<u>0.9</u>

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: J. C. B. TITLE: Construction Inspector DATE: 12/4/78

REMARKS (ATTACH RELEVANT REPORTS)
Debating to continue just prior to the placement of concrete.
** WAREHOUSE #3

1-CB-1CBXW219001

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. LCBXW21901

LOCATION Unit #1 Cont. Bldg
Fl. 219

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

QC INSPECTOR Charles S. Farris DATE 12/6/78

PRINCIPAL SITE CIVIL ENGINEER _____ DATE _____

Exhibit 1

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

Placement No. 1CBXW219001

Sheet 1 of 1

Location Unit #1 Cont. Bldg Exterior Wall

Drawings CAR-2167-G

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	CC INSPECTOR
1	Shear tie bars El. 216 to El. 219 Exterior wall	Approximately 200 bars missing	Numerous spacing violations due to missing shear tie bars	Sat.	C.A. Frank Individual Notified: J. Williams Date Nov. 27, 1970
2	Ditto Item #1 (56)	None	None	Sat	C.A. Frank Individual Notified: Date Dec. 1, 1970 HBY
3					Individual Notified: Date
4					Individual Notified: Date
5			SAK		Individual Notified: Date

Exhibit 1
77-11

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

Placement No. LCBXW219001 Sheet 1 of 1
 Location Unit #1 Cont. Bldg Exterior Wall from E1 216 to 218.5
 Drawings CAR-2167-G 0632 - 0633 - 0651

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	216 E1 to 218.5 E1 Horizontal rebar 0° to 360°	None	None	Sat	C. J. Funder Individual Notified: — Date 12/1/78
2	216 E1 to 218.5 E1 Shear tie bars 0° to 360	Approx. 150 shear tie bars missing	None	Sat	C. J. Funder Individual Notified: J. Latham Date 12/1/78
3	Item #2	None All of the shear tie bars in place	None	Sat	C. J. Funder Individual Notified: — Date 12/4/78
4					Individual Notified: — Date
5					Individual Notified: — Date

CAROLINA POWER & LIGHT CO. - ANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-15
Exhibit 3

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXW 219001

LOCATION Unit #1 Containment
Bldg El. 219 Exterior Wall

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

CONSTRUCTION INSPECTOR Shirley S. French DATE 12/19/78
 PRINCIPAL SITE CIVIL ENGINEER [Signature] DATE 12-20/78

QA-24
11-01-78
Rev. 2

CAROLINA POW & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 1

PLACEMENT NO. 1C BX W219001 DATE 12-6-78
LOCATION #1 Containment Bldg. (pump discharge)
WEATHER: () CLEAR () OVERCAST () RAIN () OTHER _____
() HAZY () FOG () P. CLOUDY

AMBIENT TEMP. 46 °F
THERMOMETER NO. 4553

TRUCK NO.	TIME SAMPLED	TRUCK YARDS	TICKET NO.	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	WATER ADDED	TEST CYLINDERS RESULTS				SET NO.	REMARKS
													DAY 1	DAY 2	DAY 3	DAY 4		
29	10:20 PM	5	23588	2 3/4	63	4553	46	4508A				+7						
29	11:00 PM	5	23589	1 1/2	65	4553	40	4508A				+9						
28	1:05 AM	8	23597	2 1/2	66	4553	56	4508A	141.9	4508A	04530	+6	3660	5060	7150	7220	1	2507 6 Field cure mark
28	2:05 AM	8	23603	3 1/2	68	4553	50	4508A										
30	3:00 AM	8	23608	4	68	4553	62	4508A	144.9	4508A	04530		3180	4780	6330	6470	2	2508
29	4:00 AM	8	23615	3	70	4553	54	4508A	141.4	4508A	04530		3640	5380	7000	7050	3	2509
	: AM																	
	: PM																	
	: AM																	
	: PM																	
	: AM																	
	: PM																	
	: AM																	
	: PM																	

SLUMP REQUIRED 4 ± 1 in. DESIGN MIX # M-72
AIR REQUIRED 4-8 % DESIGN STRENGTH 5000 psi

FIELD QC INSPECTOR Ricky Stuckel DATE 12-6-78
LAB QC INSPECTOR Clayton Youngstrom DATE 1-3-79
QA SPECIALIST Eugene Kelly DATE 1-4-79

**CONCRETE
PLACEMENT
REPORT**

FILE

PLACEMENT NUMBER

10824242001

LOCATION (INCLUDE ELEV. IF IN BLDG.)

Cont #1 FL 242 AZ 100 to AZ 100

SCHEDULED DATE:

9-24-80

TYPE PLACEMENT

Exterior Wall

ESTIMATED QUANTITY

59 yds

TEMP LIMIT (SLUMP LIMIT)

50"-90" | 4" max

SEISMIC CLASS I

YES NO

X

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF		UNFORMED SURF	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input checked="" type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE:	
TRUCK	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Exposed Agg	<input checked="" type="checkbox"/>		<input type="checkbox"/>	NUCLEAR	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

Approx Hot RR 9-24-80

COMMENT & CLARIFICATION TO PROPOSED METHODS

Rate of rise 2ft/hr - Extended Cure

PRIMARY MASONRY DWG. NO.

2167-G-0630

SPEC. FINISH

Exposed Agg

DES. STRENGTH

5000 psi

DESIGN MIX CODE

M1971

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: Ken Ecker TITLE: Area Eng DATE: 9-24-80

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			CONST. INSPECTION		QUALITY ASSURANCE		
	REF. PROC.	CRAFT SUPT	FIELD ENG	DATE	INSPECTOR	H.Q.C. SIGNOFF	DATE	QA SIGNOFF
1 CONTACT SURFACES	WP-5	J. K. [Signature]	TR Brigg	9-23	U. Sealey	NA	9/23/80	J. Brigg
2 FORMS	WP-22	J. K. [Signature]	TR Brigg	9-23	U. Sealey	NA	9/23/80	J. Brigg
3 REINFORCING STEEL	WP-11	J. K. [Signature]	TR Brigg	9-23	U. Sealey	NA	9/23/80	J. Brigg
4 EMBEDS	WP-18	J. K. [Signature]	TR Brigg	9-23	U. Sealey	NA	9/23/80	J. Brigg
5 MECHANICAL		H. Koster						
	EMBEDS	J. Smith	TR Brigg	9/23	Gracalhorn	NA	9/23/80	P. M. [Signature]
	PIPE	B. D. [Signature]	TR Brigg	9/23	Gracalhorn	NA	9/23/80	F. [Signature]
6 ELECTRICAL								
7 CADWELDS	WP-1	J. K. [Signature]	TR Brigg	9-23	U. Sealey	NA	9/23/80	D. S. [Signature]
8 BOP WELDING	N/A			9-23	N/A	NA	9/23/80	D. S. [Signature]
9 CODE/SEISMIC WELDING							9/19/80	M. [Signature]
10 CLEAN-UP	WP-5	J. K. [Signature]	TR Brigg	9-24	U. Sealey	NA	9/24/80	J. Brigg
11								

CONSTRUCTOR SIGNOFF (AREA SUPT)

J. K. [Signature]

TIME: 5:30 PM

DATE: 23 SEP 80

C.I. SIGNOFF

U. Sealey

TIME: 9:30 AM

DATE: 9-24-80

DESIGN APPROVAL

Ken Ecker

TIME OF START

11:15 AM

DATE PLACED

9-24-80

YDS. CONCRETE DELIVERED

86

YDS. NOT PLACED IN THIS PLACEMENT

8

YARDS WASTED

12

YARDS GROUT

13

YDS. PLACED IN THIS PLACEMENT

81

YARDS PLACED ELSEWHERE

16

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Russell J. Bueckner

TITLE: C.I.

DATE: 9-24-80

REMARKS (ATTACH RELEVANT REPORTS)

1 Access hole left until placement was complete; closed after workers out of wall

RR 9-24-80

LCB 10BXW242001

000563

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBKW242001

LOCATION Cont #1 Ext Wall

A2 120° to 180° el. 230' to 242'

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
COMMENTS		

CONSTRUCTION INSPECTOR Lynell J. Bucklowe DATE 9-24-80

CONSTRUCTION INSPECTION SUPERVISOR Charles A. French DATE 9-25-81

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

Placement Number 10EXU-242001
Coordinates 120° to 180°
Elevation 236 to 242

I.I. Review John D. Sealey F/E Review Robert Wilson Area Engineer Review Kan Fuller 9-18-80
Revisions Required/Revision: None 9/18/80 Affecting Documents _____

ary	<u>CAR-2167-G-0630 R6</u>	<u>FCR-C-1197 R1</u>	<u>PW-C-1433</u>
-	<u>" -0631 R6</u>	<u>PW-C-984-R1</u>	<u>PW-C-1783</u>
CRKING	<u>CAR-2167-G-0618 R6</u>	<u>PW-C-682</u>	<u>DCU-550-302</u>
	<u>" -0632 R3</u>	<u>Balkaliam Day</u>	<u>FCR-C-1293 R1</u>
MS 4-8" Reinforcing	<u>" -0634 R3</u>	<u>8079-5 R2</u>	<u>PW-C-1814</u>
	<u>" -0636 R4</u>	<u>" -6 R3</u>	
	<u>" -0641 R4</u>	<u>" -9 R2</u>	
	<u>" -0651 R3</u>	<u>" -11 R1</u>	
	<u>" -0762 R4</u>	<u>" -14 R4</u>	
	<u>" -0765 R5</u>	<u>" -15 R4</u>	
	<u>" -0768 R2</u>	<u>" -16 R4</u>	
	<u>" -0769 R1</u>	<u>" -19 R2</u>	
		<u>" -19A R3</u>	

FOR INFORMATION ONLY

is	<u>CAR-2167-G-0631 R6</u>		
ations	<u>CAR-2167-G-0630 R6</u>		
	<u>" -0631 R6</u>		
s	<u>CAR-2167-G-0618 R6</u>		
ending	<u>CAR-2167-G-0605 56709</u>		

PLACEMENT NO./LOCATION K15 V11 242

DRAWING NO. See Cont. Sheet

INSPECTOR Mike Serlani, Ronnie Braccione

DATE 9-18-80

REV. 0
/80

FIELD INSPECTION REPORT FOR REINFORCING STEEL -

CONTAINMENT EXTERIOR WALL
PENETRATION STEEL INSPECTION

Exhibit 8
TP-22

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
VERTICALS ROW 1,2,7,8 12 ROW VERTICALS 120" to 190" CBI SEE CONT. SHEET	70	70	None Note: All these bars stop at 237 elevation	None	
HORIZONTALS ROW 3,4,9,10 300 ROW HORIZ. 120" to 190" CC 1 (CD to CC 1) SEE CONT. SHEET	2	2	* SEE NOTE ON PAGE FOR ADDED HORIZONTALS IN POUR, DUE TO SPACING CHANGE None	None	FOR INFORMATION ONLY
ADD. PER DWG. HOR./VERT. Additional Horiz. Elevation: 237 # 18 Horiz.	2	2	None	None	
DIAGONALS ROW 5, 6 ROW 5: 1 DIAGONAL BETWEEN BARS #5 #117 SEE CONT. SHEET.	1	1	None	None	
ADD. PENETRATION STEEL HOR./VERT./DIAG. Additional Horizontals for penetrations	1	1	As per DCU-550-302		
ADD. PENETRATION STEEL HOR./VERT./DIAG. Additional Bars added for 18" gaps Horiz + Vert	✓	✓			
FACE BARS BETWEEN BARS (1-42, 1-44, 1-46)	3	3	None	None	
INTERNAL BARS INNER/OUTER INNER LAYER RADIALS 100 LAYER BETWEEN BARS (1) SEE CONT. SHEET	4	4	None	None	
REINFORCING BARS SEE CONT. SHEET					
STEEL BOLT ASSEMBLIES 1 1/2" φ shear bolt assemblies	27	30	3 EXTRA SHEAR BOLTS IN THIS POUR		
OTHER SHEET PILES CC 904	449	449	None	None	

FIELD INSPECTION REPORT
REINFORCING STEEL CONTINUATION SHEET

Sh. 4 of 13

Exhibit 9
TP-22

D./LOCATION IC. BXW 242

2161-C 0165 02 0630 12A, 0165 03 0165 04 0165 05 0165 06 0165 07 0165 08 0165 09 0165 10 0165 11 0165 12

Remedial Inspection

DATE 9-18-80

DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
27	29			
27 28	28			
-	-	Spacing needs adjustment 160° to 150°	Spacing corrected UDS 9-18-80	T. Crestini 9-15-80
-	-			
-	-			
11	11			
2	2			
151 152	152			
60	64			
4	4	None	None	
64	68	4 extra 2 nd row bars		

FOR INFORMATION ONLY

FIELD INSPECTION REPORT
 REINFORCING STEEL CONTINUATION SHEET

Sh. 5 of 13

Exhibit 9
 TP-22

O./LOCATION ICEXW242

21616 C-41 EA CIVIL ENGR. 0167 RL. P. 11-11-81

by S. J. ...

DATE 7-8-80

DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
7	7	None	None	FOR INFORMATION ONLY
18	18			
25	25			
28	28	None	None	
7	as 76			
2	7-1780 no 21			
51	51			
1	1			
2	2	None	None	
2	2			
111	109	2 bars missing as per PW-C-1433	This is a part of written 5-1-80	2/1/80

FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Sh. 6 of 13

Exhibit 9
TP-22

NT NO./LOCATION 10.15 XLW 242.00.1

NO. 1161-G (X-2) R3 0105 DATE 9-18-83

BY Eric S. ... DATE 9-18-83

ITEM (RKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
1 A,50)	1	1			
1 3,524 B,51)	1	1	None	None	
1 3,534 B,60)	1	1			
1 3,524 B,4)	1	1			
3 3,485	6	6			
2 3,52)	2	2			
2 B,50)	1	1			
2 B,524 B,51)	1	1	None	None	
2 3,534 B,60)	1	1			
2 3,524 B,4)	1	1			
4 3,485	6	6			

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Sh. 7 of 13

Exhibit 9
TP-22

ENT NO./LOCATION 1024u)24200-1

NO. OF SHEETS 1024 R3, 5165-R5, 10116-R6, 10117-R7, 10118-R8

OR Wm. Seals, Lowell L. Brudlow DATE 9-18-80

ID ITEM (MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
W - 180°					
- 400	2	2			
(curve)					
400	1	1			
- (B,50)					
700	1	1			
- (B,52)					
- (B,51)					
400	1	1	spacing was 16" adjustment 16" to 18"	corrected spacing WDS 9-16-80	D. Griffin 9-18-80
- (B,53)					
- (B,54)					
400	1	1			
- (B,52)					
- (B,54)					
RW - PARS	6	6			
ROW - (B,50)					
701	2	2			
- (401)					
701	1	1			
- (B,50)					
101	1	1	None	None	
- (B,52)					
- (B,51)					
101	1	1			
- (B,53)					
- (B,54)					
101	1	1			
- (B,52)					
- (B,54)					
ROW - PARS	6	6			

FOR INFORMATION ONLY

NOTE: At 170°, there are 7 horizontals in each row, due to a spacing change underneath the penetrations 599, 543, and 558.

Rev. 0
7/80

FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Sh-8 of 13

Exhibit 9
TP-22

PLACEMENT NO./LOCATION 107 EX 123 242 001

DRAWING NO. 107 EX 123 242 001

SPECTOR Mike Sealley, Eunice L. Boudreau DATE 7-18-80

SPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
5th FLOOR DOWN TO 2ND FLOOR WITHIN 242					FOR INFORMATION ONLY
119 (CO NO 132)	1	1			
120 (CO NO 133)	1	1			
126	1	1			
127	1	1	None	None	
128	1	1			
129	1	1			
130 (CO NO 140)	1	1			
143	1	1			
144	1	1			
225	4	4			
226	4	4			
227	2	2			
228	2	2			
230	1	1			
233	1	1			
234	1	1			
235	1	1	None	None	
236	1	1			
237	1	1			
238	1	1			
239	1	1			
29	11	11			
TOTAL 5th FLOOR BARS	41	41			
6th FLOOR WITHIN 242					
104	1	1	None	None	
107	1	1			
111	1	1			
115	1	1			

IS A DIE BENT, WITH DISCREPANCY AT ELEVATION 240'

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FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Sh. 9 of 13

Exhibit 9
TP-22

PLACEMENT NO./LOCATION 12FNU346002

DRAWING NO. 12FNU346002

SPECTOR Mr. [unclear], Kenneth L. [unclear]

DATE 9-18-80

SPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
6" REINFORCING					
118	1	1	None	None	FOR INFORMATION ONLY
121	1	1			
123	1	1			
124	1	1			
120	1	1			
215	4	4			
216	7	7			
217	8	8			
218	4	1			
219	1	1			
220	1	1			
221	1	1			
223	1	1			
225	1	1			
228	1	1			
229	1	1			
235	1	1			
237	1	1			
TOTAL 6" REIN. BARS	41	41			

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FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Exhibit 9
TP-22

PLACEMENT NO./LOCATION R2XU 47001
DRAWING NO. 117-167-G 0162 01 0165 01 0168 01 0171 01 0174 01 0177 01 0180 01
INSPECTOR Wm. Steben, Russell L. Sullivan DATE 9-18-80

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
1st layer rebar					
22	2	2	None	None	
23	2	2			
24	2	2			
25	2	2			
26	2	2			
27	2	2			
35	3	3			
37	2	2			
38	2	2			
Total 1st layer rebar	23	23	Approximately 23 or 48 bars will be substituted in this placement.		
Upper layer 1st rebar PETHEHEM BARS	23 ^{MS} ₉₋₁₆ 22	22	Approximately 23 ^{22 or 9-16} or 48 bars will be substituted in this placement.		
2nd layer					
Inner layer rebar					
20	4	4	None	None	
22	2	2			
23	2	2			
24	2	2			
25	2	2			
26	2	2			
27	1	1			
28	1	1			
Total 2nd layer rebar	16	16	Approximately 16 or 32 bars will be substituted in this placement.		
Upper layer 2nd rebar PETHEHEM BARS	15 ^{MS} 16 ₉₋₁₆	15	Approximately 15 or 32 bars will be substituted in this placement.		

REV. 10/80

**FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET**

Sh. 110 of 13
Exhibit 9
TP-22

CEMENT NO./LOCATION 138 XU 242001
 WING NO. 1016 (162 RA) PROJ. 16 AT
 DIRECTOR Max Sealey, Daniel J. Friedman DATE 9-8-80

EXPECTED ITEM BAR MARKS	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
1st Layer LINES 1-7 20 22 23 24 25 26 27	4 2 2 2 2 2 2	4 2 2 2 2 2 2	None	None	
TOTAL 3RD LAYER W/ADDS	16	16	Approximately 16 or 32 bars was substituted in this placement.		
3rd Layer W/ADDS W/ADDS BARS	16	17	17 bars Approximately 16 or 32 bars was substituted in this placement.		

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR
REINFORCING STEEL CONTINUATION SHEET

Sk 12 of 13

Exhibit 9
TP-22

ELEMENT NO./LOCATION 10 x 10, 24/20/1
 DRAWING NO. SA 2167-G-0112 PG 1
 INSPECTOR Mr. Sealey, Russell F. Beckhouse DATE 9-12-80

ITEM NO. (MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED DATE
10/15	14	14	None		FOR INFORMATION ONLY
VER V 68.0	14	14			
10/16 VER 1 68.6	2	2			
10/17 VER 2 67	2	2			
10/18 VER W 67.7	12	12			
10/19 VER Z 70.9	10	10	Spacing needs adjustment	See PW-C-1783	K Fuller 9-11-80
10/20 bal Ring 20	54	54	Note: These ring bars encircle the perimeter 358, In this pair only the bottom section, or similar, ring bar will be embedded.		

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-05
Exhibit

FIELD INSPECTION REPORT FOR EMBEDDED PLATES, PENETRATIONS & ANCHOR BOLTS

Placement No. 1CBXW24200

Sheet 13 of 13

Location Cont. #1 Ex. Wall, Az. 120° to 180°, El. 236' to 242' (S-58 Penetration Area)

Drawings CAR-2167-G-0631 (R-6)

INSPECTED ITEM & TYPE	DIMENSIONAL VIOLATIONS (LIST BOLT SIZES)	STUD DISCREPANCIES OR ALTERATIONS	QUALITY	CONSTRUCTION INSPECTOR
1 W/4 Embed Plate 1 1/4" x 13" x 7' 1" Nelson Studs - 3/4" φ x 7" El. 240' 1/4" Az. 161° 34'	None	None	Good	R. Bredlow Individual Notified: Date 9-19-80
1 W/4 Embed Plate 1 1/4" x 13" x 7' 1" Nelson Studs - 3/4" x 7" El. 240' 1/4" Az. 164° 26'	None	None	Good	R. Bredlow Individual Notified: Date 9-19-80
(S-58) 1 Type III 48" φ Penetration El. 243' 00" Az. 162° 30' (Partial Embedment to 242' 00')	None	None	Sat	M. Kealy Individual Notified: Date 9-19-80
(S-44) RLB 9-16-80 1 Type II 18" φ Penetration El. 243' 00" Az. 170° 45' (Partial Embedment to 242' 00') Not in this placement				Individual Notified: Date
				Individual Notified: Date

R 4
2/80

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-15
Exhibit 3

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW242001

LOCATION Cont. Ext. Wall, Az. 120° to

Placed 9-24-80
Extended Cure - Hot Weather

180° el. 236' to 242'

CHECKLIST	REMARKS	INITIALS
Form Removal ✓	Sat.	RLB
Shoring Removal	N/A	RLB
<u>CURING</u>		
A. Water ✓	Sat	RLB
B. Curing Compound ✓	^{RLB} ₁₀₋₂₋₈₀ N/A Sat (Kurez applied only to some portions - remainder moist-cured)	RLB
C. Ponding	N/A	RLB
D. Burlap	N/A	RLB
E. Wet Sand	N/A	RLB
F. Polyethylene	N/A	RLB
G. Temperature	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. Exposed Aggregate	Sat	RLB

FOR INFORMATION ONLY

CONSTRUCTION INSPECTOR Russell S. Breedlove DATE 10-3-80

CONSTRUCTION INSPECTION SUPERVISOR Charles A. Funch DATE 10-7-80

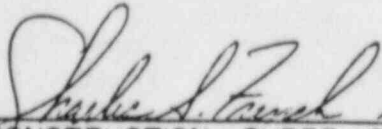
CONCRETE DEFECTS

PLACEMENT NO. 1CBXW242001 DATE PLACED 9-24-80

REPORTED BY Russell F. Buedlow DATE REPORTED 10-29-80

REMARKS ER. Metal forms raised on 9-29-80. Falsework on the S-58 blister area
remained until wrecked on 10-28-80. The concrete surface in this area will require
chipping to allow steel stress rods (vibrator probes) to be cut below the neat line. Cosmetic
repairs will then produce a satisfactory surface.

SKETCH OR LOCATION

 10/31/80
CONSTRUCTION SUPERVISOR SIGNATURE

000564

FILE

**CONCRETE
PLACEMENT
REPORT**

PLACEMENT NUMBER

1C18XW256004

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONT. #1 EXT. WALL AT PER AIR LOCK

SCHEDULED DATE:

8/11/81

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

67 C.Y.

TEMP LIMIT

50°-90°

SLUMP LIMIT

8" MAX

SEISMIC CLASS I

YES NO

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

TRANSPORTING			PLACING		VIBRATION		FINISHING		FORMED SURF.		UNFORMED SURF.	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input checked="" type="checkbox"/>	HAND SCREED	<input type="checkbox"/>	FORMS ALONE	<input checked="" type="checkbox"/>	WATER	<input checked="" type="checkbox"/>	
BUCKET	<input type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>	
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>	PROBE	<input checked="" type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>	
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>			BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE:		
TRUCK	<input type="checkbox"/>					EXP AGG	<input checked="" type="checkbox"/>	WTEC 416, 1"	<input checked="" type="checkbox"/>	NUCLEAR	<input type="checkbox"/>	
	<input type="checkbox"/>							Forms removed		NON-NUCLEAR	<input type="checkbox"/>	

SERVICE COND. SPECIAL LOAD

PROTECTION CRACKING

CURE (DAYS) 7

ANTICIPATED WEATHER CONDITIONS:

HOT

COMMENT & CLARIFICATION TO PROPOSED METHODS

RATE OF RISE - 2'/HR

USE M-12 PUMP GRout

PRIMARY MASONRY DWG. NO.

2167-G-0831 R-27

SPEC. FINISH

EXP. AGG.

DES. STRENGTH

5.0KSI

DESIGN MIX CODE

M-80

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: David Rye TITLE: Area Eng DATE: 8/11/81

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	J. P. Howard	M. D. Myers	8-10	R. Breedlove			8/10/81	
2 FORMS	WP-22	J. C. Hyatt	M. D. Myers	8-10	R. Breedlove			8/10/81	
3 REINFORCING STEEL	WP-11	T. Van der Meer	M. D. Myers	8/11	R. Breedlove			8/10/81	
4 EMBEDS	NA	J. C. Hyatt	M. D. Myers	8/11	R. Breedlove			8/10/81	
5 MECHANICAL	EMBEDS	WP-102	J. C. Hyatt	8/10	J. C. Hyatt			8-11-81	
	PIPE	WP-101	J. C. Hyatt	8/10	J. C. Hyatt			8-11-81	
6 ELECTRICAL	WP-201	J. C. Hyatt	M. D. Myers	8/10	J. C. Hyatt			8-11-81	
7 CADWELDS	WP-01	T. Van der Meer	M. D. Myers	8/10	R. Breedlove			8-11-81	
8 BOP WELDING				8/10	J. C. Hyatt			8-11-81	
9 CODE/SEISMIC WELDING								8-11-81	
10 CLEAN-UP	WP-05	J. C. Hyatt	M. D. Myers	8/11	R. Breedlove			8/10/81	
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT)

J. C. Hyatt 98-299

TIME: 7:15

DATE: 8-11-81

C.I. SIGNOFF

Russell S. Breedlove

TIME: 8:05AM

DATE: 8-11-81

DESIGN APPROVAL

David Rye

TIME OF START

8:30

DATE PLACED

08-11-81

YDS. CONCRETE DELIVERED

67

YDS. NOT PLACED IN THIS PLACEMENT

0.5

YARDS WASTED

0.5

YARDS GROUT

1

YDS. PLACED IN THIS PLACEMENT

66.5

YARDS PLACED ELSEWHERE

10

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Russell S. Breedlove

TITLE: C.I.

DATE: 8-11-81

REMARKS (ATTACH RELEVANT REPORTS)

* Some rebar shifted for access - flagged; Replaced @ completion RLB 8-11-81

1-CR 1C18XW256004

7-12-81

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXW236004

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 S. Bresciani 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 DRAWINGS

Placement Number 1 CBXW256004

Coordinates A2. 315° to 16°

Elevation 251.0' to 256.0'

C.I. Review Russell S. Bredlow

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents *

✓ Masonry ✓ CAR-2167-G-0630(RT)
✓ -0631(RT)

✓ FCR-C-716 (Tolerance on Shell Liner)
✓ FCR-C-2324 (Excess clearance in blister area)

✓ Reinforcing CAR-2167-G-0618(R6)
-0619(R6)

✓ FCR-C-2556 (Interference CC-906/5-57 stud)
✓ FCR-C-2557 (No clearance on cadwelds @ 16°)
✓ FCR-C-2558 (Change C.J. @ A2. 315°)
✓ PW-C-2089 (8th Row As-Built)

-0636(R4)
-0637(R4)

✓ PW-C-2333 (Form and Probe Vibrators)
✓ PW-C-1370 (Omitted 8th Row Dowels)

-0764(R3)
-0767(R2)

✓ PW-C-2495 (Radial Bars mislabeled)
✓ PW-AS-685 (Bent Studs on penetrations)

-0632(R3)
-0633(R3)

✓ PW-AS-736 (Bent Studs on penetrations)
✓ DCN-530-803 ('Endos' 8th Row)

(cont.)

✓ RCI-C-623 (Add'l Temperature Steel)

✓ Embeds CAR-2167-G-0631(RT)

✓ RCI-C-465 (Form Coatings)

✓ RCI-C-498 (ACI concrete cover minimums)

✓ RCI-C-535 (Acceptable 'Endo' lengths)

✓ RCI-C-589 (Conflicts between prints)

✓ Penetrations CAR-2167-G-0630(RT)
-0631(RT)

✓ RCI-C-598 (Conflicts between prints)

✓ RCI-C-599 (Liner plate tolerance clarification)

✓ RCI-C-855 (Shear Bolt Assemblies)

✓ Dowels ✓ CAR-2167-G-0618(R6)
✓ -0619(R6)

✓ RCI-C-600 (Design Drawings Clarification)

✓ Bar Bending CAR-2167-G-9005-3,4,7,8,9,3

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

Other

Russell S. Bredlow

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

Placement Number 103x4)256004

Coordinates A2. 315° to 16°

Elevation 251.0' to 256.0'

C.I. Review R. Brudlow

Area Engineer Review _____

Drawings Required/Revision:

Affecting Documents

012 8-8-81
Rebar

CAR-2167-G-0638 (R3) ✓

Bethlehem Steel Corporation Prints (Reinforcing)

-0639 (R3) ✓

8099-10 (R1) ✓

-0641 (R4) ✓

-7 (R2) ✓

-0650 (R4) ✓

-12 (R6) ✓

-0651 (R4) ✓

-3 (R2) ✓

-0652 (R0) ✓

-8 (R4) ✓

-0770 (R1) ✓

-4 (R1) ✓

-0624 (R3) ✓

-13 (R2) ✓

-0632 (R3) ✓

-24 (R3) ✓

-0761 (R4) ✓

-25 (R4) ✓

-26 (R3) ✓

-32 (R3) ✓

-29 (R2) ✓

CAR-2168-G-601 (R6)

012 8-8-81
Embeds

✓ -0229 (R4)

-33 (R3) ✓

✓ -0230 (R16)

-22 (R4) ✓

✓ -0231 (R18)

-23 (R3) ✓

✓ -233501 (R3)

-23A (R1) ✓

Penetrations

✓ -253502 (R4)

✓ -253503 (R3)

✓ -253504 (R3)

012 8-8-81
Dowels

✓ -253508 (R2)

Bar Bending _____

Other _____

9/80

CONTINMENT EXTERIOR WALL
INSPECTION SUMMARY SHEET

Exhibit 11
TP-22

P. 4 of 44

PLACEMENT NO. 1CBXW256004

INSPECTOR Russell J. Breckler DATE _____
FIELD ENGINEER W. J. Byrd DATE 8/18/81

See Individual sheets

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Az. 16° to 315° El. 251.0' to 256.0'	VERTICALS					
	ROW 1	83	83			
	ROW 2	6	6			
	ROW 7	55	56	1 extra bar	J. Byrd	None
	ROW 8	98	99	1 extra bar	J. Byrd	None
	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	J. Byrd	None	D. Bryan
Bars in 18" gap & around penetrations	✓	✓	As per 0651 & RCI-C-625	J. Byrd	None	D. Bryan

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 5 of 44

PLACEMENT NO / LOCATION 1CBX00256004
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CA-2-2167-G-0637(R4); -0619(R-1); -0632(R-2); -0636(R4)
Bethlehem Print 8099-10(R-1) -0618(R-2)

INSPECTOR Russell S. Braddock DATE 7-22-81
FIELD ENGINEER Mike Malone DATE 8/4/81
DESIGN QUANTITIES PER SHEET

TICALS 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
-------------------	-----------------------------	----------------------------	-----------------------	---	------------	-------

NOTED ITEM (OR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
show Bars "B" B-5 (100 to 200) to CC-250	2	2	1 st Row Verticals 3150 to 3-97	None	None	N/A
C-250	1	1	√			
C-251	2	2	5-97 to 5-34			
C-250	1	1				
B-5 (to CC-200)	2	2				
C-301	1	1				
C-300 (to C3-28)	1	1				
C-297 (to C3-28)	1	1				
C-295 (to C3-28)	1	1	√			
C-298 (to C3-28)	1	1	5-34 to 5-96			
C-296 (to C3-28)	1	1				
C-274	1	1				
C-266	1	1				
C-303	1	1	√			
C-266	1	1	5-96 to 5-57	√	√	√

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

TP-22

Sh. 6 of 44

EMENT NO./LOCATION CBXW286004

ING NUMBER
SCHEDULING SCHEDULE NO. CAR-2167-G-0637(R4), -0619(R-6), -0652(RD), -0636(R4)

Bethlehem Print 8099-10(R-1) -0618(R-6)
RB 8-10-81

ECTOR Russell J. Bueckler DATE 76-22-81

AD ENGINEER Michael B. Johnson DATE 8/4/81

S B	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG.		DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL		SHEAR BARS	OTHER
		HOR./VERT.	VERT./HOR./DIAG.					

ITEM (RKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
303 ✓ Bars "B"	1	1	1st Row Verts. (cont.) # 5-96 to # 5-97	None	None	N/A
267 ✓	3	3				
359 ✓	2	2				
23 ✓	1	1				
22 ✓	1	1				
121 ✓	1	1				
72 ✓ 5-9-91	1			These bars have "deadmen" start in next placement	N/A	N/A
71 ✓ 3-9-91	1				N/A	N/A
117 ✓	1	1	# 5-57 to 5-9			
18 ✓	1	1				
19 ✓	1	1				
20 ✓	1	1				
16 ✓ 3-11-81	1	1				
15 ✓	1	1				
67 ✓	2	2				

**FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL**

TP-22

Sh. 7 of 44

PLACEMENT NO./LOCATION 1CBXW286004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAK-2167-9-0637(R4), -0619(R6), -0682(R0), -0636(R4)

Bethlehem Print 8099-10(R-1) -0618(R6)

INSPECTOR Russell L. Breedlove DATE 7-22-91

FIELD ENGINEER W. J. R. [Signature] DATE 8/4/91

DESIGN QUANTITIES PER SHEET						
CALS 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

ITEM MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Rein Bars = 8" -168 ✓	1	1	1st Row Verticals E-3-57 to 3-9 (cont.)	None	None	N/A
-114 ✓	1	1	5-9 to 3-102	↓	↓	↓
-166 ✓ to B-113)	1	1		↓	↓	↓
-112 ✓	1	1		↓	↓	↓
-111 RLB 321 to CC-930) 9-10-91	1	1		↓	↓	↓
-110 RLB 320 to CC-934)	1	1		↓	↓	↓
-109 RLB 319 to CC-933)	1	1		Needs respacing away from penetration	Respaced & Acceptable	D. Sullivan 8-5-81
-108 RLB 318 to CC-932)	1	1	3-102 to 3-54	↑	↑	↑
-165 RLB 317 to CC-931)	1	1		↑	↑	↑
5-164 RLB 315 to CC-929)	1	1		↑	↑	↑
3-162 ✓	1	1		↓	↓	↓
3-163 ✓	1	1		↓	↓	↓
3-163 ✓	1	1	3-54 to 3-51	—	—	—
3-162 ✓	1	1		↓	↓	↓
3-161 ✓	1	1		↓	↓	↓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXU2256004

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-6)

INSPECTOR Ronald L. Breedlow

DATE 7-22-81

FIELD ENGINEER Michael Blodgett

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
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INSPECTED ITEM (S&P MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
B-160 ✓	1	1	1 st Row Verticals S-34 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 Cadm welded & accepted	D. Sullivan 8-4-81
CC-374 (CO to CC-374) ✓	6	6		↓	↓	↓
CC-347 (CO to CC-250) ✓	5	5		1 cut off short	Extension Cadm 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

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 10 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CA2-2167-G-0633(R-3), -0632(R-3)

Bethlehem Print 8099-7(R-3)

INSPECTOR Russell J. Breedlove DATE 7-23-81

FIELD ENGINEER Mike Breedlove 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 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 - 48" CC-7, B-123 B-124, B-125, CC-1 ✓	1(set)	1(set)	3rd Row Horizontal 315° to 16°	None	None	N/A
CC-7, B-127 B-122, B-126, 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 - 18" 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-129 B-134, CC-2 ✓	1(set)	1(set)	PARTIALLY EMBEDDED	↓	↓	↓

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FIELD INSPECTION REPORT FOR
 CONTA. MENT EXTERIOR WALL
 REINFORCING STEEL

EXHIBIT /
 TP-22

Sh. 12 of 44

PLACEMENT NO./LOCATION 1 CBXW256004
 DRAWING NUMBER _____
 BAR BENDING SCHEDULE NO. CA2-2167-G-0638(RS), -0639(RS)
Bethlehem Prints 8099-12(R4), -3(R2)

INSPECTOR Russell L. Buechler DATE 7-23-81
 FIELD ENGINEER Mark Johnson 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 365 Q.B. 4-4-81	+		5th Row Diagonals 5-33 to 5-57	None	None	N/A
369	1	1	5-57 to 5-9			
371	1	1				
373	1	1				
377 (CD to 434)	1	1	5-9 to 5-54			
385	1	1				
389 (CD to 386)	1	1				
388 (OM start @ el. 204)	1	1				
393	1	1	5-51 to 16°			
439 (OM start @ el. 252)	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

Sh. 13 of 4

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER

BAR BENDING SCHEDULE NO. CAE-2167-G-0638(R5), -0639(R5)

Bethlehem Prints 8099-12(R6), -3(R2)

INSPECTOR Russell S. Buccellone

DATE 7-23-81

FIELD ENGINEER Michael J. Redman

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 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 450)	1	1				
451	1	1				
475 (CD to 452)	1	1				
453	1	1				
477 (CD to 454)	1	1				
455	1	1				
456	1	1				
457	1	1				
458	1 R/S 8-8-81			These bars are embedded at 16° bulkhead	N/A	N/A
459	1 R/S 8-8-81				N/A	N/A

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

 EXHIBIT /
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Sh. 14 of 44

 PLACEMENT NO./LOCATION 1CBXW256604

 DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0638(R5), -0639(R5),
Bethlehem Prints 8099-8(R4), -4(R1)

 INSPECTOR Russell J. Brudlow DATE 7-23-81

 FIELD ENGINEER Michael B. Lefkowitz 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 Bars 355	1	1	1st 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 (CD to 376)	1	1	5-34 to 5-96			
377	1	1	↓			
379 (CD to 390)	1	1	↓			
381 (CD to 382)	1	1	↓	↘	↘	↘
383 (CD to 384)	1	1	↓	Needs respaving away from penetration	Respaved & 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 (CD @ 256')	1	1	5-9 to 5-54	Problems does not start @ correct ALB 5-8-81	↓	↓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0638(R-3), -0639(R-5)

Bethlehem Reints 8099-3(R4), -4(R-1)

INSPECTOR Russell F. Brudlow DATE 7-23-81

FIELD 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 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 ✓	^{AS BENT} 34	4				
21 ✓	2	3	↓		↓	↓
23 ✓	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

PLACEMENT NO./LOCATION: 1 CBXW256004

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-Q-0618(R6); -0619(R6), -0650(R4), -0652(R0)

Bethlehem Print 9099-13(R2) -0641(R4)

INSPECTOR Russell S. Breechlow DATE 7-23-81

FIELD ENGINEER Mike Bledsoe 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
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars CC-740 ✓ (Dres @ 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 ✓ (Dres @ 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 ✓ (Dres @ 256')	1	1	↓			
CC-771	1	1	↓			
CC-772 ✓	1	1	S-96 to E5-57			
CC-762 ✓	2	2	↓			
CC-740 ✓ (Dres @ 256')	1	1	↓			
CC-755	2	2	↓			
CC-754	1	1	↓	↓	↓	↓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

PLACEMENT NO./LOCATION: 1 CBXW256004
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0618(R-6), -0618(R-6), -0650(R-4), -0652(R-0)
Bethlehem Drint 8099-13(R-2) -0641(R-4)

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

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD PER DIA. HOR./VERT.	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars "8" B-118 ✓	1	1	8th Row Verticals 5-96 to 5-57(cont)	None	None	N/A
CC-740 (0.25 @ 296) B-114	0	1	5-57 to 5-9	Extra bar not required	DCN-530.905	D. Bryan
B-115	1	1		↑	↓	↑
B-111 (CD to B-139)	1	1		↓	↓	↓
B-122	2	2		1 does not have correct origin(CC-726)	D. Bryan PW-C-2089	D. Bryan
CC-740 (0.25 @ 296)	2	2		1 does not have correct origin(CC-726)	D. Bryan PW-C-2089	D. Bryan
CC-742 (0.25 @ 296)	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 (CD to CC-835)	1	1				
B-108 (CD to CC-834)	1	1				
B-107 (CD to CC-833)	1	1				
CC-740 (0.25 @ 296)	1	1		↓	↓	↓

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FIELD INSPECTION REPORT FOR
CONCRETE EXTERIOR WALL
REINFORCING STEEL

EXHIBIT 2...
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31.19 of 4

PLACEMENT NO./LOCATION 1 (BYW) 256004

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. BrucklowDATE 7-23-81

FIELD ENGINEER

Mike Brucklow

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 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 ✓ (CO to CC-83)	1	1				
B-137 ✓ (CO 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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Exhibit 7
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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 21 of 44

PLACEMENT NO./LOCATION 1CBXW256004
DRAWING NUMBER 0634
BAR BENDING SCHEDULE NO. 2167-G-0634 R3, -0635 R3
0635
217-232 217-232
BETHLEHEM PRINT 8099-7 R2

INSPECTOR Russell J. Breedlove DATE 7-23-81
FIELD ENGINEER [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 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" 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-174, CC-400	1 (SET)	1 (set)	↓	↓	↓	↓
CC-534, B-120 B-128, CC-400	1 (SET)	1 (set)	↓	↓	↓	↓
CC-567, 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" ROW HORIZ. 315° - 16°	These bars do not have proper clearance at 16° bulkhead	D. Bryan PW-C-2997	D. Bryan
CC-455, B-127 B-122, B-126, CC-401	1 (SET)	1 (set)	↓	↓	↓	↓
CC-455, B-121 B-174, CC-401	1 (SET)	1 (set)	↓	↓	↓	↓
CC-535, B-120 B-128, CC-401	1 (SET)	1 (set)	↓	↓	↓	↓
CC-322, B-129 B-134, CC-401	1 (SET)	1 (set)	PARTIALLY EMBEDDED	↓	↓	↓

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Exhibit 8
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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. Bredelone

DATE 7-24-81

FIELD ENGINEER John [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

SPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL- NOTIFIED
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S-151 C1 # C11 Layer Radials Dev. Rad. = 66.04'

NOTE: These bars encircle S-151 radially, and cadweld to the C7 radials @ rad. = 70.6455'
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	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL-NOTIFIED
29	1	1	S-151 C1 # C11 Layer Radial 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)	✓	✓	✓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-24(R3)

INSPECTOR Russell S. Bredlowe

DATE 7-24-81

FIELD ENGINEER [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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5-57 DI & DDI Radial Layers Dev. Radius = 66.04'

NOTE: These bars encircle 5-57 radially, and cadweld to the D7 radials @ rad. = 70.6458'
In addition, some of these bars will cadweld to the C1 & D4 Radials projecting up
from 5-151. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
44 ✓	2	2	5-57 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 SPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

PLACEMENT NO./LOCATION LCBXW236004

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-24(R3)

INSPECTOR Russell J. Bredlow DATE 7-24-81

FIELD ENGINEER Mike Bredlow DATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS / 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
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EXPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTICES
Radial Bars						
36 ✓	1	1	S57 D1 # DDI Radials T.E. (cont.)	None	None	N/A
37 ✓	1	1	Also cadwelds to CI (2)			
56 -	1	1	Also cadwelds to CI (3)			
38	1	1	∩ ∩			
39	1	1	∩			
57	1	1	∩			
40	1	1	∩			
41	1	1	∩			
58	1	1	∩			
42	1	1	∩			
43 ✓	1	1	∩			
59 ✓	1	1	∩ ∩	∩	∩	∩

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

PLACEMENT NO./LOCATION 1CBXW236004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-25(R4)

INSPECTOR Russell J. Breedlove

DATE 7-23-81

FIELD ENGINEER Michael J. Johnson

DATE 8/2/81

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	SPEAR 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 c/weld to the C6 layer at rad. = 70.0625'
In addition, some of these bars c/weld to the D2 layer radials projecting down
from S-57. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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 9-108 + 11 ✓	1	1	Also c/w to D2 bar (33)			
21 ✓	1	1	↓ ↓	↓	↓	↓

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAMINANT EXTERIOR WALL
PENETRATION STEEL

Sh. 26 of 44

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-25(24)

INSPECTOR Russell S. Bredlowe

DATE 7-24-81

FIELD ENGINEER Mike Gledhill

DATE 8/2/81

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 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.)

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 38	2	2	S-57 D2 Radials 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	√	√	√	√

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 28 of 44

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Prints 8099-26(2-3)

INSPECTOR Russell S. Broadlove DATE 7-24-81

FIELD ENGINEER Mike [Signature] DATE 8/2/81

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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5-151 C-3 LAYER RADIALS DEV. RADIUS = 67.75'
NOTE: THESE BARS ENCIRCLE 5-151 RADIALLY, AND CAOWELDED TO THE C-5 RADIALS @ RADIUS = 69.5'
IN ADDITION, SOME OF THESE BARS CAOWELDED TO THE D-3 RADIALS PROJECTING DOWNWARD
FROM 5-57. EMBEDMENT WILL BE DESIGNATED AS PARTIAL (PE) OR TOTAL EMBEDMENT (TE).

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

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 29 of 44

PLACEMENT NO./LOCATION ICBAW256004
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____
Bethlehem Print 8099-26(R-3)

INSPECTOR Russell J. Broadlow DATE 7-24-91
FIELD ENGINEER Mike [Signature] DATE 8/2/91
DESIGN QUANTITIES PER SHEET 1

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
<p>S-57 D3 LAYER RADIALS DEV. RADIUS = 67.75'</p> <p>NOTE: THESE BARS ENCIRCLE S57 RADIALLY, AND LAPWELD TO THE D-5 RADIALS AT RAD = 69.475'</p> <p>IN ADDITION, SOME OF THESE BARS LAPWELD TO THE C-3 RADIALS PROJECTING UPWARD FROM S-15!</p> <p>EMBEDMENT WILL BE DESIGNATED AS PARTIAL (PE) OR TOTAL EMBEDMENT (TE)</p>						

BETHLEHEM BARS				S-57 D-3 BARS			
31	✓	1	1	PE	None	None	N/A
23	✓	1	1	PE			
22		1	1	TE			
21	✓	1	1	CO TO C3 (16)			
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				

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

Sh. 31 of 44

PLACEMENT NO./LOCATION 1 CBXW256004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-25(R4)

INSPECTOR Russell S. Buccione

DATE 7-24-81

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 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 CL4 #A14 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	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CL6 ✓	1	1	CL4 #A14 Radial Layers 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	✓	✓	✓	✓

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 32 of 44

PLACEMENT NO./LOCATION 1 CBW 256004

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8289-32(R3)

INSPECTOR Russell J. Bredlow DATE 7-27-81
FIELD ENGINEER [Signature] DATE 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
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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5-151 Radial Layer C5 Dev Radius = 69.4742'

NOTE: These bars enclose 5-151 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 downward from 5-57. Embellishment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
1 ✓	2	2	5-151 C5 Radial Layer T.E. Rad. = 69.4742'	None	None	N/A
8 ✓	2	2	↓			
9 ✓	1	1	↓			
10 ✓	1	1	↓ P.E. 7-27-81			
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	↓			

9/80

Exhibit 8
TP-22

**FIELD INSPECTION REPORT FOR
CONCRETE EXTERIOR WALL
PENETRATION STEEL**

Sh. 33 of 44

PLACEMENT NO./LOCATION 1 CBXW2286004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Prrat 8099-32(R3)

INSPECTOR Russell J. Brecklove

DATE 7-27-81

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

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

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
40 ✓	2	2	S-57 D5 Radial Layer 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.			

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 34 of 44

PLACEMENT NO./LOCATION 1 CBXW 286004

DRAWING NUMBER

BAR BENDING SCHEDULE NO.

Bethlehem Print 8099-29(R2)

INSPECTOR Russell J. Buehlone

DATE 7-27-81

FIELD ENGINEER Michael J. ...

DATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 12,7,8	HORIZONTALS ROW 3,4,5,10	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
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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5-181 C6 Radial Layer Dev. Rad. = 70.0623'

NOTE: These bars extend 5-181 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
5-57. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
3	1	1	5-181 C6 Radial Layer T.E. R=70.0623'	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
CONCRETE EXTERIOR WALL
PENETRATION STEEL**

Sh. 36 of 44

PLACEMENT NO./LOCATION 1CBXW256004
 DRAWING NUMBER _____
 BAR BENDING SCHEDULE NO. _____
Bethlehem Print 8099-33(R3)

INSPECTOR Russell F. Bredlowe DATE 7-27-81
 FIELD ENGINEER [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
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
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5-151 C7 Radial Layer Dev. Radius = 70.6438'

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

Bethlehem Bars	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
20 ✓	1	1	5-151 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	✓	✓	✓

9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 38 of 44

PLACEMENT NO./LOCATION 1CBXW256004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 9099-33/R3

INSPECTOR Russell L. Brecklage

DATE _____

FIELD ENGINEER Michael J. [Signature]

DATE 8/4/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 4,7,8	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 BOLT ASSEMBLIES	OTHER

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

NOTE: These bars encircle S-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 S-151. Embedment will be designated as partial (P.E.) or total (T.E.)

Bethlehem Bars.	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
10 ✓	2	2	S-57 D7 Radial Layer 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> PW-C-2495	D. Bryan
31	1	1		↓		↓
32	1	1				
33	1	1	↓			↓

9/80

Exhibit 8
TP-22

**FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL**

Sh. 39 of 44

PLACEMENT NO./LOCATION 1CBXW296004

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-33(R3)

INSPECTOR Russell J. Breedlove DATE 7-27-81

FIELD ENGINEER [Signature] DATE 8/2/81

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 4,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE RADIAL BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
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INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars 65	1	1	S-57 D7 layer (cont.) Also cd to CI layer T.E. Rad. = 70.6437	None	None	N/A
64	1	1	↓ ↑			
63	1	1	Also cd to CI layer			
62	1	1	↓ ↑			
61	1	1	Also cd to CI layer			
60	1	1	↓ ↑			
59	1	1	Also cd to CI layer			
58	1	1	↓ ↑			
57	1	1	Also cd to CI layer			
56	1	1	↓ ↑			
55	1	1	Also cd to CI layer			
54	1	1	↓ ↑			
53	1	1	Also cd to CI layer			
39	1	1	P.E. ↑			
38	1	1	↓ ↓	↓	↓	↓

CAROLIN POWER & LIGHT COM NY
SHNPP

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

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

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (10R LL, 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. Bueddo N/A 8-8-81
ANCHOR BOLTS					
OTHER					

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

PLACEMENT NO. 1CB XW 251 004

PAGE 43 OF 44

DRAWING & REV. ~~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 φ	5 Nelson Studs Bent	PW-AS-736 <i>J. By</i>	R. Bredler D. Bryan 8-8-81
PENETRATION S-102	S-102 Q AZ 347°-15' Q ELEV. 251'	1 TYPE II PEN. 18 φ	11 Nelson Studs Bent	PW-AS-685 <i>J. By</i>	R. Bredler D. Bryan 8-8-81
PENETRATION S-9	S-9 Q AZ 342°-45' Q ELEV. 255'	1 TYPE II PEN. 10 φ	10 Nelson Studs Bent	PW-AS-736 <i>J. By</i>	R. Bredler D. Bryan 8-8-81
PENETRATION S-57	S-57 Q AZ 335°-45' Q ELEV. 255'	1 TYPE III PEN. 48 φ	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 φ	2 Nelson Studs Bent	PW-AS-685 <i>J. By</i>	R. Bredler D. Bryan 8-8-81

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

F CEMENT NO. 1CBxW256004

PAGE 44 OF 44

DRAWING & REV. CAR-2167-G-0631 R7

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE-(10R11, 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-06 Q AZ 327°-45' Q ELEV 255'	1 TYPE II PEN. 12 φ	9 Nelson Studs Bent	PW-AS-736 J. Bry	R. Bredlow D. Bryan 8-8-81
PENETRATION S-34	S-34 Q AZ 324°-15' Q ELEV 251'	1 TYPE II PEN. 10 φ	2 Nelson Studs Bent	PW-AS-685 J. Bry	R. Bredlow D. Bryan 8-8-81
PENETRATION S-97	S-97 Q AZ 317°-15' Q EL 255'	1 TYPE II PEN. 12 φ	4 Nelson Studs Bent	PW-AS-736 J. Bry	R. Bredlow D. Bryan 8-8-81

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-8216 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.

12
8/17/81

C.I. Inspector RE Butler Date 8/10/81

C.I. Supervisor CM [unclear] 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. 1CBXWJ38400
PLACED 8/11/81
END OF CURE 8/18/81
CURE/PROTECTION REQUIREMENTS Extended

LOCATION Cont. #1 Ext. Wall
A2. 318' to 46', el. 291' to 256'

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 > 50°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. Breedlove DATE 8-25-81
CONSTRUCTION INSPECTION SUPERVISOR M.D. Seals DATE 8-25-81

WIDE UP PLACEMENT Pump

PLACEMENT NO. 15BXW256004 DATE 8-11-81

LOCATION Contaminant Bldg #1

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

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR METER (%)	AIR METER NO.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS RESULTS:			SET NO.	LAB #	REMARKS
										DAY	DAY	DAY			
										7	28	28			
	9:45 AM	8	6	83	4664	6.8	4767B		CP.L	3820	5540	5480	1	7740	1 Dry unit weight Cylinder Made.
73456	11:40 AM	56	3 1/2	82	4664	7.0	4767B		CP.L						
73474															

FIELD QA/QC INSPECTOR Sharon Milnes DATE 8-11-81
 LAB QA/QC INSPECTOR Amy Calk DATE 9-8-81
 QA/QC SPECIALIST Ernie Kelly DATE 9-9-81

SLUMP REQUIRED 0-8 MAX in. DESIGN MIX # USED M-20
 AIR REQUIRED 4-8 % DESIGN STRENGTH 5000 PSI
 FOR PLACEMENT

**CONCRETE
PLACEMENT
REPORT**

FILE

EXTerior WALL

PLACEMENT NUMBER **1CBXW286002**

LOCATION (INCLUDE ELEV. IF IN BLDG.) **CON'T #1 Elev 276. AZ 300° TO 315°** SCHEDULED DATE: **5/2/80**

TYPE PLACEMENT **EXT. WALL** ESTIMATED QUANTITY **35 yds** TEMP LIMIT **90°F** SLUMP LIMIT **4" MAX** SEISMIC CLASS I YES NO

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING				PLACING		VIBRATION		FINISHING		FORMED SURF.		UNFORMED SURF.	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input type="checkbox"/>	FORMS ALONE	<input checked="" type="checkbox"/>	WATER	<input checked="" type="checkbox"/>	
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	<input type="checkbox"/>	FORM	<input type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input checked="" type="checkbox"/>	
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input type="checkbox"/>	
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>	
TRUCK	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EXP. AGGR.	<input checked="" type="checkbox"/>		<input type="checkbox"/>	NUCLEAR	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	NON-NUCLEAR	<input type="checkbox"/>	

ANTICIPATED SPECIAL WEATHER PRECAUTIONS **NORMAL** COMMENT & CLARIFICATION TO PROPOSED METHODS
***QA-Make Extra Set Cylinders For A 4 day Break**

PRIMARY MASONRY DWG. NO. **2167-G-0631** SPEC. FINISH **EXP. AGGREGATE** Slump = 4" max - 10 TOLETTANCE

DES. STRENGTH **5000 PSI** DESIGN MIX CODE **M 1717** NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE BY: **J. McLean** TITLE: **ENGR/EEIC** DATE: **4/20**

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-5	<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
2 FORMS	WP-22	<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
3 REINFORCING STEEL	WP-18 II	<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
4 EMBEDS	WP-18	<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
5 MECHANICAL		<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
6 ELECTRICAL		<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
7 CADWELDS	WP-1	<i>[Signature]</i>	<i>[Signature]</i>	7/10	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	7/10/80	<i>[Signature]</i>
8 BOP WELDING CAT 4-8		<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
9 CODE/SEISMIC WELDING		<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
10 CLEAN-UP	WP-5	<i>[Signature]</i>	<i>[Signature]</i>	5/16	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	5/16/80	<i>[Signature]</i>
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT) *[Signature]* DATE: **16 MAY 80** I. SIGNOFF *[Signature]* TIME: **6:45** DATE: **5/16/80**

DESIGN APPROVAL *[Signature]* DATE: **5/16/80** TIME OF START **19:45** DATE PLACED **15-116-80**

YDS. CONCRETE DELIVERED	132	YDS. NOT PLACED IN THIS PLACEMENT	10	YARDS WASTED	0
YARDS GROUT	0	YDS. PLACED IN THIS PLACEMENT	132	YARDS PLACED ELSEWHERE	0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: **Russell J. Buellore** TITLE: **C. I.** DATE: **5-17-80**
REMARKS (ATTACH RELEVANT REPORTS) **Refer. FCR-C-1309 For curing.**

FOR INFORMATION ONLY

1-CB 1CBXW276002

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

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

Placement Number ICBYW276002 Date 5-15-80
Coordinates 300° to 315°
Elevation 276 to 286
Inspector Mac D. Sealsy

A/E Review John M. Lewis 5/16/80

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-6-0630 R5
" " -0631 R6

Reinforcing CAR-2167-6-0633 R2
-0635 R2
-0637 R3
-0650 R3
-0651 R3

Reinforcing
Dwg 8099-38 R5
-42 R5

Embeds

Penetrations CAR-2167-6-0631 R6

Dowels CAR-2167-6-0619 R6

Bar Bending CAR-2167-B-9005-

Other 9007, 9008, 9009

Placement Number ICBXW276002
Inspector Mac D. Sealley

CONTAINMENT EXTERIOR WALL INSPECTION

Location	Inspected Item	Design Qty.	Actual Qty.	Discrepancies	Corrective Action	Individual Notified:
300° to 315° E.E. 266 276	Verticals					
	Row 1	21	21			
	Row 2	2	3	Extra Bar		
	Row 7	2	2			
	Row 8	18	18			
	Horizontals					
	Row 3 @ 300°	13	13			
	Row 4 "	13	13			
	Row 9 "	13	13			
	Row 10 "	13	13			
	Additional Horizontal	2	2			
	Vertical	17	18	→ Req 0651		
	Diagonals					
	Row 5	11 *	11			
	Row 6	12 *	12			
	Additional Horizontal					
	Vertical					
	Diagonal for Pipe Penetration					
	Shear Bars	⊕				
	Other	⊕ Placed at every intersection of 1st and 3rd row v2 bar as per 0651 * quantity will depend upon where bulkhead is finally located quantity correct				
	Horizontals					
	Row 3 @ 315°	13	13			
	Row 4 "	13	13			
	Row 9 "	13	13			
	Row 10 "	13	13			

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

TP-15
Exhibit 3

POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBKW276002
placed 5-16-80
concrete placed a top 5-23-80

LOCATION Containment Ex. Wall
E1. 276 Az. 300° to 315°

CHECKLIST	REMARKS	INITIALS
Form Removal	Sat	WDS
Shoring Removal	NA	WDS
<u>CURING</u>		
A. Water ✓	Sat	WDS
B. Curing Compound	Sat	WDS
C. Ponding	Sat	WDS
D. Burlap ✓	NA	WDS
E. Wet Sand	NA	WDS
F. Polyethylene	NA	WDS
G. Temperature	Sat	WDS
<u>FINISH</u>		
A. Steel Trowel	NA	WDS
B. Wood Float	NA	WDS
C. Broom	NA	WDS
D. Hair Brush	NA	WDS
E. Rubber Float	NA	WDS
F. Exposed Aggregate ✓	Sat	WDS

CONSTRUCTION INSPECTOR

Walter D. Sealey

DATE 5-28-80

CONSTRUCTION INSPECTION SUPERVISOR

Frank A. French

DATE 5-28-80

3/13/80
Rev. 3

HEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

PLACEMENT NO. IC Rxw276002 DATE 5-16-80

MODE OF PLACEMENT Truck discharge

LOCATION #1 Containment Bldg

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

TICKET NO.	TIME SAMPLED	ACCU YARDS PLACED	SLUMP (IN)	TEMP. (°F)	THERM. NO.	AIR (Z)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
											RESULTS						
											DAY 7	DAY 8	DAY 28	DAY			
54460	8:30 AM	5	3 3/4	77	m	1.6	m	m	m	m	2240	6150	5086	1	5803	140	
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																

SLUMP REQUIRED 0-4+1 in.

DESIGN MIX # USED m 5172

FIELD QC INSPECTOR Dennis Miller DATE 5-16-80

AIR REQUIRED 4-8 Z

DESIGN STRENGTH FOR PLACEMENT 5000 PSI

LAB QC INSPECTOR Sam Alvey DATE 6/13/80

QA SPECIALIST Eugene Kelly DATE 6/17/80

CONCRETE PLACEMENT REPORT



SHNPP

FILE

PLACEMENT NUMBER

1CBXW29271011

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONTAINMENT #1 E1 290

SCHEDULED DATE:

7/23/82

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

35 CY

TEMP. LIMIT

50-90 F

SUMP LIMIT

4'

REINFORCING CLASS I

YES NO

X

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF	UNFORMED SURF
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	STEEL TROWEL <input checked="" type="checkbox"/>	FORMS ALONE <input checked="" type="checkbox"/>	NET BURLAP <input checked="" type="checkbox"/>
BUCKET <input type="checkbox"/>	TREMIE <input type="checkbox"/>	FORM <input checked="" type="checkbox"/>	WOOD FLOAT <input type="checkbox"/>	TARPS <input type="checkbox"/>	POLYETHYLENE <input type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>	<input checked="" type="checkbox"/>	HAIR BRUSH <input type="checkbox"/>	INSULATION <input type="checkbox"/>	CURING COMPOUND: <input type="checkbox"/>
PUMP <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	KUREZ <input type="checkbox"/>
TRUCK <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RUBBER FLOAT <input type="checkbox"/>	<input type="checkbox"/>	NUTEC 10 <input type="checkbox"/>
			EXP. Hg. CUR <input checked="" type="checkbox"/>		QUAD CURE <input type="checkbox"/>
			REINFORCING <input checked="" type="checkbox"/>		GALLONS REQUIRED: <input type="checkbox"/>

ANTICIPATED WEATHER CONDITIONS: HOT

SERVICE COND. MILD
PROTECTION BITUMEN
CURE (DAYS) 7

COMMENT & CLARIFICATION TO PROPOSED METHODS

EXT. WALL Floor A-22' to 3rd' C.E.L. 286.83 TO 289.23' AN

PRIMARY MASONRY DWG. NO.

2167-G-0631 R-7

RATE OF RISE

2' / HR

DES. STRENGTH

5,0 KSI

DESIGN MIX CODE

M-172

NAME, TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: David Ryznar TITLE: A.E. DATE: 7/16/82

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	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
2 FORMS	WP-22	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
3 REINFORCING STEEL	WP-11	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
4 EMBEDS		R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
5 MECHANICAL		R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
6 ELECTRICAL	WP-201	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
7 CADWELDS	WP-01	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
8 BOP WELDING		R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
9 CODE/SEISMIC WELDING		R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
10 CLEAN-UP	WP-05	R. L. Searns	R. L. Searns	7-23	R. Bredlow	MA		7-23-82	R. Bredlow
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT) R. L. Searns TIME: 10:00 AM DATE: 7-23-82
G.L. SIGNOFF Russell S. Bredlow TIME: 10:00 AM DATE: 7-23-82

DESIGN APPROVAL: David Ryznar DATE: 7/23/82
TIME OF START: 10:30
DATE PLACED: 07-23-82

YDS. CONCRETE DELIVERED	1413	YDS PLACED IN THIS PLACEMENT	42	YARDS WASTED	CONCRETE 02 GROUT 02
YARDS GROUT DELIVERED	03	CONCRETE	41	YARDS PLACED ELSEWHERE	CONCRETE 0 GROUT 0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: Russell S. Bredlow TITLE: 7-23-82 C.I. DATE: 7-23-82

REMARKS (ATTACH RELEVANT REPORTS)
* Reinforcing on floor for access - 6 #18's 240 to 300 - Respac'd & set RLB 7-26-82

Rev. 7 11
7/81

Exhibit 1
TP-15

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXU 290001

LOCATION Cont. #1 Ext. Wall
Az. 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 Russell J. Bueckow DATE 7-23-82

CONSTRUCTION INSPECTION SUPERVISOR Robert P. Taylor 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 1CBXW3290001

Coordinates A2, 240° to 300°

Elevation 284'10" to 284'10"

C.I. Review Russell J. Buechler, M. J. ... ^{FE} Area Engineer Review J. Ryan

Drawings Required/Revision:

Affecting Documents

✓ Masonry	<u>CAR-2167-G-0630(R7)</u>	<u>FCR-C-2632 (Lapping #6 Shear & Face Bars)</u>
	<u>-0631(R7)</u>	<u>FCR-C-716 (Tolerance on Shell Liner)</u>
		<u>PW-C-2960 (Liner Date out-of-tolerance)</u>
✓ Reinforcing	<u>CAR-2167-G-0637(R4)</u>	<u>PW-C-1958 (Rebar 'deadmen' NDE requirements)</u>
	<u>-0652(R0)</u>	<u>FCR-C-1427 (Crack control steel)</u>
	<u>-0633(R3)</u>	<u>PW-C-3116 (Additional Verticals misspacing)</u>
	<u>-0650(R4)</u>	<u>RCI-C-625 (Clarification of crack control steel)</u>
	<u>-0651(R4)</u>	<u>RCI-C-548 & 549 (Discrepancies between prints)</u>
	<u>-0635(R3)</u>	<u>FCR-C-3399 (Excess wall thickness & cover)</u>
	<u>-0763(R5)</u>	<u>FCR-AS-1730 (Bolt Studs on penetration)</u>
	<u>-0765(R5)</u>	<u>PW-C-3406 (Rejected Cadweld)</u>
	<u>-0639(R3)</u>	<u>✓ Bethlehem Steel Corp (Reinforcing) Prints</u>
	Embeds	
		<u>-39(R5) ✓ -43(R4) ✓</u>
		<u>-42(R2) ✓ -44(R2) ✓</u>
		<u>-35(R2) ✓ -61(R1) ✓</u>
		<u>-34(R3) ✓</u>
		<u>-60(R3) ✓</u>
Penetrations	<u>CAR-2167-G-0631(R7)</u>	<u>FCR-C-2935 (Changes 3" x 4" T" to 3" x 3" T")</u>
	<u>CAR-2168-G-224(R14)</u> <u>-230(R15); -233(R4)(R5)</u>	<u>RCI-C-609 (Masonry dimensions for Cent. #1)</u>
✓ Dowels	<u>CAR-2167-G-0619(R4)</u>	<u>Computer Printout Reviewed</u>
✓ Bar Bending		<u>Daily Document Log Checked</u>
	<u>CAR-2167-B-9005-35, 4, 7, 8, 9</u>	<u>Document Control Contacted</u>
Other		<u>Russell J. Buechler 7-23-82</u>

FOR INFORMATION ONLY

CONCREMENT EXTERIOR WALL INSPECTION SUMMARY SHEET

Sh. 4 of 22

PLACEMENT NO. 1CBW290001

INSPECTOR Russell S. Brudlow DATE 7-22-92

FIELD ENGINEER [Signature] DATE 7/22/92 *See individual sheets*

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Az. 240° to 300° El. 286'10" 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 -D651		
VERTICAL						
DIAGONAL						
ROW 5	14	14				
ROW 6	13 14 <small>AS 7-22-92</small>	18		4 extra bars - BARS DESIGN TO DEE AT EL 286 BUT EXTENDED INTO WALL		OK <i>[Signature]</i>
ADD. PENETRATION						
STEEL / VERTICAL	42	42				
HORIZONTAL	1	1				
DIAGONAL						
FACE BARS	49	49		Some lap spliced	FOR-C-2632	D. Bryan
RADIAL BARS						<i>[Signature]</i>
INNER	14/14/14	14/14/14				
OUTER	14/14	14/14				
RING BARS						
SHEAR BOLT ASSEMBLY						
OTHER						
Shear Bars:						
	Beth. Bar (3)	2x48	2x48			OK <i>[Signature]</i>
	(2)	4x110	4x110	on Add'l Horizontal, No 72 extra bars compared	None	D. Bryan
	CC-40+'S	5/6	5/6 <small>125</small>	Some lap spliced	FOR-C-2632	D. Bryan
	Add'l Steel in 18" gaps	✓	✓			<i>[Signature]</i>
FOR INFORMATION ONLY						

Rev. 1
9/80

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Exhibit 8
TP-22
Sh. 5 of 22

PLACEMENT NO./LOCATION 1 CBX12290001

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

Bethlehem Print 8099-31(R2)

INSPECTOR Kevin J. Brudlow DATE 7-19-92

FIELD ENGINEER Mike [Signature] DATE 7/19/92

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/CUTER	RING BARS	SHEAR BOLT ASSEMBLIES	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 E 51			
<i>Bethlehem Bars "B"</i> 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				
<i>on</i> B-241 ✓	1	1		No cordwelder no. Bad cordweld	<i>Q-12</i>	<i>D. Brum</i>
<i>on</i> B-240 ✓	1	1	E 5-1 to E 5-2		<i>7/23/92 PW-E-5406</i>	
B-226 ✓	1	1				
B-228 ✓	1	1				
B-229 ✓	1	1				

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

PLACEMENT NO./LOCATION LCRND290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2127-G-0637(R4)

Bethlehem Door 8099-31(R2)

INSPECTOR Russell S. Brecklow DATE 7-19-92

FIELD ENGINEER M. J. [Signature] DATE 7/19/92

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 RACIAL BARS BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLES	OTHER
13	0	0	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Section Bars = 8 B-230 ✓	1	1	1st Row Verticals E 5-1 to E 5-2 (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 ✓ 21	1	1				
B-240 ✓ 21	1	1	E 5-2 to E 5-3			
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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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 7 of 22

PLACEMENT NO./LOCATION 1CBX2290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. (AR-2147-G-0637/R4)

Bethlehem Print 3099-31CR2

INSPECTOR Russell J. Bredlow DATE 7-9-82
FIELD ENGINEER Michael J. [Signature] DATE 7/10/82

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
03	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-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	E5-3 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-239 ✓	1	1				
CC-250 ✓	8	8				
CC-269 ✓	2	2				

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CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBx2 296001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. CR-3127-6-01(37(24) 01(43(80)

INSPECTOR Russell L. Brucelle DATE 7-19-92

FIELD ENGINEER [Signature] DATE 7/19/92

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 2,7,8	HORIZONTALS ROW 3,4,9,6	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
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 Qs-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-290-393 MS 7-19-92	1	1				
CC-311 ✓ CC-392	1	1				
CC-250 ✓	7	7	2nd Row Verticals	None	None	N/A
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CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 103xW290001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CR-247-G-0633(R3)

INSPECTOR Russell A. Bredline 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	SPEAR 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
			3 rd 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		↓	↓	↓
			4 th 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		↓	↓	↓

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 10 of 22

PLACEMENT NO./LOCATION 103XW290001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Bar # 9092-39(8)

INSPECTOR Russell J. Bueckler

DATE 7-19-82

FIELD ENGINEER [Signature]

DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1, 7, 8	HORIZONTALS ROW 3, 4, 9, 10	ADD. PER C/WG. 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
			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 CO to B-559 ✓	1	1	↓			
B-573 CO to B-560 ✓	1	1	S-1 to S-2			
B-574 CO to B-559 ✓	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	↓			
B-563 ✓	1	1	7-23-82			
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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 11 of 22

PLACEMENT NO./LOCATION 1CBXW390001

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Print 3099 - 42(R-2)

INSPECTOR Russell J. Brecklowe DATE 7-19-82
FIELD ENGINEER [Signature] DATE 7/19/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER OWG. 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 #18 B-632 ✓	1 1	1	Left Rows 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 no 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	} Extra Bars DESIGNED TO DIG AT EL 286 BUT EXTENDED INTO PUMP.	None	D. Bryon
B-631	0	2	↓			
#18	0	1	↓			
B-632	1	1	↓	FOR INFORMATION ONLY		

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 12 of 22

PLACEMENT NO./LOCATION 103x1020001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. BAR-2147-C-0650(24)

Bentley Print 9094-35122

INSPECTOR Kimberly L. Braddock DATE 7-14-82

FIELD ENGINEER W. J. [Signature] DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 2,7,9	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 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	7 th Row Verticals 2400 to 3000	None	None	N/A
CC-801 ✓	6	6	↓	↓	↓	↓
<i>Bentley Bars: "B"</i>						
CC-719 ✓	16	16	8 th 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	FOR INFORMATION ONLY		
B-178 ✓	1	1	↓	↓	↓	↓

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBK0290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CR-2107-G-0650(R4)

Bethlehem Print SC92-35(R2)

INSPECTOR Russell J. Brantley 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	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: "8"						
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				
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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 108XW290601
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2147-G-D(USD/RH)
Remington Dr. at 8044 - 35102

INSPECTOR William J. Brackley 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	SPEAR BOLT 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
Remington Dr. at 8044						
B-163 ✓	1	1	5th Row Verticals 5-2 to 5-3 (cont.)	None	None	N/A
B-161 ✓	1	1				
B-159 ✓	1	1				
B-193 ✓	1	1				
B-150 ✓	1	1	5-3 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				

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 18 of 22

PLACEMENT NO./LOCATION 108xLW390001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. (AR-2147-G-0650(R4), -0651(R4))

Bethlehem Print 5094-34(R3), -40(R3), -45(R2)

INSPECTOR Russell L. Bredlow DATE 7-17-82

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	8 ^{1/2} 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 ✓	^{RIB 7-20-82} 43	3	Add'l Horizontals from -0651	None	None	N/A
Bethlehem Bars 3	48x2	48x2	Shear Bars			
2	4x110	4x110				
CC-904 ✓	56	¹²⁸ 56 ₂₀₀ ¹⁻¹²⁻⁸²		72 extra bars Some lap spliced	None-no correction FCR C-21032	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-21032	D. Bryan
48	22	22				

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 16 of 22

PLACEMENT NO./LOCATION 1 CBXW290991

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. BAR-2167-G-0633(23)

INSPECTOR Prince J. Drysdale DATE 7-19-82
FIELD ENGINEER Michael J. ... 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	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
			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-401, CC-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		↓	↓	↓

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 17 of 22

PLACEMENT NO./LOCATION 103X102910501

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. BAR-21127-1-17123(R5)

Bethlehem Print 5049-43(RH)

INSPECTOR Russell J. Bueckner 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	ACC. PER DWG. HOR/VERT.	DIAGONALS ROW 5,6	ACC. PENETRATION STEEL HOR/VERT/DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SPEAR 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 1 st - Rad. = 66"1 2 nd - Rad. = 67"2 3 rd - Rad. = 68"3/4			
Bethlehem Bars						
10A ✓	1x3	1x3	@ 5-1	None	None	N/A
8 ✓	2x3	2x3	↓			
9 ✓	2x3	2x3	↓			
8 ✓	2x3	2x3	@ 5-2			
9 ✓	2x3	2x3	↓			
8 ✓	2x3	2x3	@ 5-3			
9 ✓	2x3	2x3	↓			
10 ✓	1x3	1x3	↓	↓	↓	↓
Bethlehem Bars						
1 ✓	2x2	2x2	Add'l Verts. R=67'5 1/2	None	None	N/A
1 ✓	2x2	2x2	R=67'11 1/2	↓	↓	↓
FOR INFORMATION ONLY						

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 18 of 22

PLACEMENT NO./LOCATION 10BXW2900D1

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. BAR-2107-(X-07/3)(RS)

Bethlehem Bars 80A9-#4(R2)

INSPECTOR Donald J. Bradley DATE 7-19-82

FIELD ENGINEER [Signature] DATE 7/20/82

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
0	0	0	0	4	0	14	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars			4 th Layer Radials R=69'3/2 All w/ deadmen			[Signature]
10 ✓	1	1	@ 5-1	NDE Requirements for 'deadmen' deleted	PW-C-1958	D. Bryan
9 ✓	2	2	↓			
7 ✓	2	2	↓			
9 ✓	2	2	@ 5-2			
7 ✓	2	2	↓			
9 ✓	2	2	@ 5-3			
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 ONLY

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 19 of 22

PLACEMENT NO./LOCATION 1034W290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2147-(2-D'143(R5))

Bethlehem Print 9049-60(R3)

INSPECTOR Russell L. Brucellone DATE 7-14-82

FIELD ENGINEER [Signature] DATE 7/30/82

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	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/CUTER	RING BARS	SPEAR SOLT ASSEMBLES	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=70.147' All w/ deadmen			
15	✓ 1	1	② S-1	NDE requirements for 'deadmen' 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						

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh 20 of 22

PLACEMENT NO./LOCATION (CBXW) 290001

DRAWING NUMBER
BAR BENDING SCHEDULE NO.

Bethlehem Trent 8099-61(R1)

INSPECTOR Russell J. Bredlow

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 Rsp. = 70'0			
281 ✓	1	1		Incorrect Spacing	PW-C-3116	D. Bryan
280 ✓	1	1		NOE Requirements for 'deadmen' deleted	PW-C-1458	
252 ✓	1	1				
284 ✓	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				

FIELD INSPECTION REPORT
FOR INFORMATION ONLY

Rev. 1
9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

Sh. 21 of 22

PLACEMENT NO./LOCATION 1 CBXW 20001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Reinforcement Print 3099-61CR1

INSPECTOR Ronald S. Breckler

DATE 7-19-82

FIELD ENGINEER John H. Bluff

DATE 7/20/82

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 1,2,7,8	HORIZONTALS ROW 3,4,9,10	ADD. PER JWG. 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	DWG-3116 J. Bry	D. Bryan
272	✓ 1	1		NDE Requirements for 'deadmen' deleted	DWG-1455	
271	✓ 1	1			J. Bry	
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. 10300240001 PAGE 22 OF 22
DRAWING & REV. 030-2147-G-0431(R7) - 2149-G-229(R14) - 230(R15) - 25304(R5)

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE-(1OR II, 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. 294.95' E El. 290.0'	1 Penetration 10" Type II (Partially embedded)	(4) Nelson Stud Connectors Bent	FCR-AS-1730 D. Bryan	<u>R. Broadlow</u> D. Bryan 7-23-82
ANCHOR BOLTS					
OTHER					

FOR INFORMATION ONLY

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

PLACEMENT NO. 1 CBXW-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)

QA RECORDS
RECEIVED
SEP 22 1982
SHARPS CONSTRUCTION QA UNIT

COMMENTS: * From Az 240° to 300°
No EMBEDDED PIPE

FOR INFORMATION ONLY.

REVIEWED BY QA

SIGNED/INITIALS 9-21-82
DATE

C.I. Inspector Date 7-22-82
C.I. Supervisor Date 7-26-82

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
<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 Robert L. Taylor DATE 8-21-82

FOR INFORMATION ONLY

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

FOR INFORMATION ONLY

QA-24
2/81
Rev. 0

PLACEMENT NO. 1CBXW290001 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 (Z)	AIR METER NO.	UNIT WT.	UNIT BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
											DAY	DAY	DAY	DAY			
8765	12:45 AM	8	4	86	CPM 4965B	5.8	CPM 4854	CPM 4854	CPM 4854	CPM 4858	7	7	7	7	1	9266	NC-2 # C 505 ISSUED.

SLUMP REQUIRED 0-4 MAX in. DESIGN MIX # USED M-72 FIELD QA/QC INSPECTOR Ruby Steadford DATE 7-23-82

AIR REQUIRED 4-8 7. DESIGN STRENGTH 5000 PSI FOR PLACEMENT LAB QA/QC INSPECTOR Army Cate DATE 8-23-82

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

COMPRESSIVE STRENGTH EVALUATION

Placement # 103.XW290001

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	-

FOR INFORMATION ONLY

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. 0

CAROLINA POWER & LIGHT COMPANY
CORPORATE QUALITY ASSURANCE DEPARTMENT

NONCONFORMANCE REPORT
(Procedure CQC-2)

NCR No. 508
Page 1 of 1

Item/Activity Name or Description <u>COMPRESSIVE STRENGTH</u>	Shop Order <u>N/A</u>	Code Class <u>Q</u>	Quantity <u>N/A</u>	Unit <u>1</u>	Quality Assurance Number (Purchase Order & Item) <u>QA- N/A</u>
Material, Heat or Other Identification No. (Specify) <u>CBXW 290 001</u>	Supplier or Manufacturer <u>SHNPP</u>		Type of Procurement <input type="checkbox"/> CP&L PO <input type="checkbox"/> Transfer <input type="checkbox"/> A-E PO <u>N/A</u> <input type="checkbox"/> NSSS PO		
Isolation (Specification, Drawing, Procedure or Other) <u>AR-54-CH-6, SEC. I, PARA. 13.5a</u>			Reporting QA/QC Inspector (Signature) <u>[Signature]</u>		

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
[Signature] 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.

<u>Distribution:</u>	<u>Original</u> <u>BILL SEYLER</u> (Discipline Engineer) Director QA/QC - SHNPP Senior Resident Engineer Issuing QA/QC Specialist	<u>Disposition Verified:</u> <u>[Signature]</u> QA/QC Inspector <u>9-22-83</u> Date
	<u>Other:</u> <u>BYRD ISOM</u> <u>GEORGE SIMPSON</u>	<u>Disposition Accepted:</u> <u>[Signature]</u> QA/QC Specialist <u>9-22-83</u> Date

PLACEMENT NO. 10BXW2900X 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 (7)	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	5.8	CPM 4854	CPM 4854	CPM 4854	CPM DIE 98	7	28	28	28	1	9265	NO. 2 # C-505 1/5 SEP.

SLUMP REQUIRED 0-4 MAX in. DESIGN MIX # USED M-72 FIELD QA/QC INSPECTOR Ricky Stuedebund DATE 7-23-82
 AIR REQUIRED 4-8 z DESIGN STRENGTH 5000 PSI FOR PLACEMENT LAB QA/QC INSPECTOR Army Cate DATE 8-23-82
 QA/QC SPECIALIST Edward Kelly DATE 8-24-82

353

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.

~~1/PW~~ - C - 3769

Type of Request:

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

ORIGINAL

- Non-ASME
- ASME Section III Division 1
- ASME Section III Division 2
- Q Non-Q

Nonconformance No Yes Report No. NCR-C-508

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.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 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 Healy for MFT
Senior Resident Engineer 12/1/82
Date

01
18
2

AP-IX-05
Exhibit 4

PW - C - 3769

Page 2 of 2

Organization Approval AE NSSS NPED Only Other

Phone Resolution Yes No

Approved as Recommended Rejected Conditional Approval

Design Organization Attachments Yes No

change requires the following Document(s) (Specification, Drawing, SAR, etc.)

changed

Comments: _____

Signature	Title	Date	Signature	Title	Date
<i>[Signature]</i>	CP&L Harris Plant Engineering Approval				
	HPES Attachments	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Approved as Recommended	<input type="checkbox"/> Rejected <input type="checkbox"/> Conditional Approval			

TEST BREAKS ARE ATTACHED.

<i>[Signature]</i>	9/16/83	<i>[Signature]</i>	9/16/83
Discipline Engineer	Date	MHPE or PPE	Date

Concurrence: Recommend Implementation

Alternate Resolution Rejected

N/A Per AP IX-05 Rev 28

Senior Resident Engineer Date

Distribution:

Original Document Control (Copy)

1) *W.O. Fridson* (Copy)

1) *J.R. Holmes* (Copy)

Implementation Completed as Approved: Yes No

Comments: _____

James R. Paul 9/24/83

Discipline Engineer Date

Distribution:

Original File in Doc. Control (Copy)

1) (Copy)

1) (Copy)

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

350 PW - C 3709 Sheet 3 of 4

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 (T)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	SCALE NO.	TEST CYLINDERS			SET NO.	LAB #	REMARKS
											RESULTS	DAY	DAY			
87605	12:45 AM	8	4	86	CPR 4765B	5.8	CPR 4854	CPJL 4854	CPJL 4854	CPJL DIE98	7	28	28	1	9266	N.C.C. # C-301 ISSUED.
	PH										7	28	28			
	PH															
	PH															
	PH															
	PH															
	PH															
	PH															
	PH															
	PH															
	PH															
	PH															

SLUMP REQUIRED: 0-4 MAX in. DESIGN MIX # USED: M-72
 AIR REQUIRED: 4-6 % DESIGN STRENGTH: 5000 PSI
 FOR PLACEMENT

FIELD QA/QC INSPECTOR: Ricky Stuedeband DATE: 7-23-82
 LAB QA/QC INSPECTOR: Angie Cate DATE: 8-5-82
 QA/QC SPECIALIST: Elizabeth Kelly DATE: 8-23-82

PW-C-3769 Sheet 4 of 4

COMPRESSIVE STRENGTH EVALUATION

PLACEMENT # 1CBXW290001

MIX # 72, 5000 PSI

	AVERAGE 28 DAY STRENGTH, PSI	RUNNING AVERAGE OF THREE, PSI
'80	5635	5180
'81	5040	4670
'85	4865	4790
'3	4105	-
'7	5400	-

NOTATION: IN ACCORDANCE WITH CAR-54-CH-6

THE 28 DAY TESTS ARE NOT 500 PSI OR MORE
BELOW THE REQUIRED STRENGTH.

THE RUNNING AVERAGE OF ALL GROUPS OF THREE
CONSECUTIVE TEST AVERAGES ABOVE THE REQUIRED
STRENGTH OF 5000 PSI.

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

HPES ATTACHMENT
TO PW-C-3769

PAGE - 1 OF 2

CAROLINA POWER & LIGHT COMPANY -
SHEARON HARRIS NUCLEAR POWER PLANT

ate Placed 7-23-82

Placement No. ICBXW290001

TEST RESULTS

Compression Machine CALM-43105

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.
7	8-8-83	10900	1.74	8.25	2.38	4.7	4580	-	-
7	8-8-83	5800	1.74	7.125	2.38	4.1	2440	-	-
7	8-8-83	9600	1.74	6.50	2.38	3.7	4030	-	-

LAB INSPECTOR Wendy J. Wolter DATE 8-8-83
QA SPECIALIST Donald Duff DATE 8-8-83

HPES ATTACHMENT
TO PLW-C-3769

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PAGE 2 OF 2

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 Wanda J. Wotter DATE 8-23-83
QA SPECIALIST Albert Dulle DATE 8-25-83



CONCRETE
PLACEMENT
REPORT

SHNPP

FILE

PLACEMENT NUMBER

11C181W3108101

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONTAINMENT # 62308.25

SCHEDULED DATE:

8/2/83

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

60 cu

TEMP LIMIT LUMP LIMIT

90° 9"

SEISMIC CLASS I

YES NO

X

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF.		UNFORMED SURF	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	STEEL TROWEL	<input checked="" type="checkbox"/>	FORMS ALONE	<input checked="" type="checkbox"/>	WET BUPLAP	<input checked="" type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	WOOD-FLOAT	<input checked="" type="checkbox"/>	TARPS	<input type="checkbox"/>	POLYETHYLENE	<input type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input type="checkbox"/>	ROD	<input type="checkbox"/>	HAIR BRUSH	<input checked="" type="checkbox"/>	INSULATION	<input type="checkbox"/>	CURING COMPOUND	<input type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM FINISH	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	KUREZ	<input type="checkbox"/>
TRUCK	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	RUBBER FLOAT	<input type="checkbox"/>		<input type="checkbox"/>	NUTEC 10	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	SPALL PATCH	<input checked="" type="checkbox"/>		<input type="checkbox"/>	QUAD CURE	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	ROUGH FINISH	<input checked="" type="checkbox"/>		<input type="checkbox"/>	GALLONS REQUIRED	<input type="checkbox"/>

SERVICE COND. MILD

PROTECTION EXTENDED

CURE (DAYS) 7

ANTICIPATED WEATHER CONDITIONS:

HOT

COMMENT & CLARIFICATION TO PROPOSED METHODS

EQUIP. HATCH POLE FOR A315 TO 16°
NO. 62 303.25 TO 308.25
A 450 #12 PUMP LINE 44' LONG COLOR

PRIMARY MASONRY DWG. NO.

21676-06310-8

RATE OF RISE

2' / HR

DES. STRENGTH

3.0KSI

DESIGN MIX CODE

14-190

NAME/TITLE PERSON SUBMITTING ALL THE ABOVE

BY: [Signature] TITLE: [Signature] DATE: 8/1/83

PRE-PLACEMENT CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY CONTROL

NO.	DESCRIPTION	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	Q.C. SIGNOFF	
							DATE	DATE
1	CONTACT SURFACES	WP-05	[Signature]	[Signature]	8-25	R. Breedlove		
2	FORMS	WP-22	[Signature]	[Signature]	8-25	R. Breedlove		
3	REINFORCING STEEL	WP-11	[Signature]	[Signature]	8-25	R. Breedlove		
4	EMBEDS		[Signature]	[Signature]	8-25	R. Breedlove		
5	MECHANICAL EMBEDS PIPE	WP-10.2	[Signature]	[Signature]	8-25	R. G. Lott	Comin Center	8-25-83
6	ELECTRICAL	WP-201	[Signature]	[Signature]	8-25	[Signature]		
7	CADWELDS	WP-01	[Signature]	[Signature]	8-25	R. Breedlove	B. Smith	8-25-83
8	BOP WELDING				8-25/14	[Signature]		
9	CODE WELDING SEISMIC WELDING						Comin Center	8-25-83
10	CLEAN-UP	WP-05	[Signature]	[Signature]	8-29	R. Breedlove		

CONSTRUCTOR SIGNOFF (AREA SUPT)

TIME: 8:40

C. SIGNOFF

TIME: 8:43 AM

[Signature]

DATE: 8-29-83

[Signature]

DATE: 8-29-83

DESIGN APPROVAL

[Signature]

DATE: 8/29/83

TIME OF START

9:50 AM

DATE PLACED

08 29 83

YDS. CONCRETE DELIVERED

1613

YDS PLACED IN THIS PLACEMENT

56 1/2

YARDS WASTED

CONCRETE 0 0 7
GROUT 0 1 1/2

YDS. GROUT DELIVERED

OR

CONCRETE
GROUT

56
0 0 0 1/2

YDS PLACED ELSEWHERE

CONCRETE 0 0 0
GROUT 0 0 0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME:

[Signature]

TITLE: C.I.

DATE: 8/29/83

REMARKS (ATTACH RELEVANT REPORTS)

FOR INFORMATION ONLY

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Exhibit 1
TP-15

Sh. 2 of 30

PLACEMENT CHECKLIST

1CBXW308001

LOCATION Cont. #1 Ext. Wall

Az 31° to 16°, el. 303.25' to 308.25'

KLIST	REMARKS	INITIALS
ght	Sat.	RLB
ment	Sat.	RLB
onditions	Sat.	RLB
Conditions	^{R/B 8-29-83} Sat N/A	R/B
ss	Sat.	R/B
g Equipment	Sat.	R/B
	Sat.	R/B
s	Sat.	R/B
	Sat.	R/B
ained	Sat.	R/B
cing Intervals	Sat.	R/B
d Rebar Replaced	N/A	R/B
<u>smooth & satisfactory placement</u>		

CONSTRUCTION INSPECTOR Russell J. Bredlowe DATE 8-29-83
ON INSPECTION SUPERVISOR Thomas Smith DATE 9-1-83

FOR INFORMATION ONLY

Rev. 5
8/82

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Exhibit 1
TP-22
Sheet 3 of 30

FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGS

Placement Number 1CBXW308001

Coordinates A2 315° 40' 16"

Elevation 298.2 to 308.25'
R/B 8-24-83

Computer Printout Reviewed 8-28-83
Daily Document Log Checked 8-28-83
Document Control Contacted 8-28-83

C.I. Review Russell J. Brecklone

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-G-0630 (R8)
-0631 (R8)

DCN-550-1067 (R1) (Adds Strain Gauges)
FCR-C-4097 ("Half-nuts" on shear bolts)

Reinforcing CAR-2167-G-0637 (R3)
-0636 (R3)

PW-C-4040 (Spacing - Rows 1, 2, 3, 4)
PW-C-4004 (Spacing - Rows 5 & 6)

-0633 (R4)
-0632 (R4)

PW-C-4207 (Spacing - Rows 7, 8, 9, 10, Add'l)
FCR-C-2958 ("Dead-men" Assemblies)

-0638 (R6)
-0639 (R6)

FCR-C-2937 (Lapping of Shear Bars)
FCR-C-2825 (Spacing - 8th Row @ 16")

-0650 (R5)
-0651 (R5)

FCR-C-4228 (sh. AS shear bolts)
PW-C-2333 (Form & Probe Vibrators)

~~Embeds~~
R/B 8-24-83

-0641 (R5)
-0635 (R4)

FCR-C-1427 (Add'l Steel in 18" gaps)
PW-C-1958 ("Deadmen" requirements)

-0634 (R4)
-0760 (R4)

FCR-C-716 (Liner plate tolerance)
FCR-C-4298 (Const. Joint changes)

~~Penetrations~~
R/B 8-24-83

-0764 (R3)

FCR-C-4264 (Liner plate out-of-tolerance)
FCR-C-4332 (Inoperative Strain Gauges)

~~LINER PLATE~~
~~Downs~~
R/B 8-24-83

CAR-2169-G-228 (R11)
-253 501 (R5)

PW-C-4299 (Bent Studs - 5-150)
PW-C-15283 (Omitted Reqlt)

Bar Bending CAR-2167-B-9005-
3, 5, 6, 7, 8, 9

FCR-C-4426 (Excess Cover) R/B 8-31-83
FCR-C-4427 (Time interval between placements)

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Exhibit 1
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Sheet 4 of 30

FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGS

Placement Number 1CBXW308001

Coordinates A2.315° to 16°

Elevation 303.25' to 308.25'

Computer Printout Reviewed 8-28-83

Daily Document Log Checked 8-28-83

Document Control Contacted 8-28-83

C.I. Review Russell J. Breckham

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

Drawings Required/Revision:	Affecting Documents
8-24-83 Bethlehem Steel Corp. (Perin.)	
8099-41(R2)	
-58(R1)	
-37(R1)	
Reinforcing -46(R1)	
-38(R3)	
-1(R2)	
-42(R2)	
-51(R0)	
-39(R0)	
-2(R4)	
-59(R1)	
8-24-83 -62(R2)	
-63(R2) ^{R1 ALB} 8-25-83	
-66(R1)	
-68(R0)	
69(R0)	
6-24-83 -67(R1)	
-64(R1)	
-64A(R1)	
6-24-83 -64B(R1)	
-64C(R1)	
-64D(R1)	
Banding -64E(R1)	
8-24-83	

CONTAINMENT EXTERIOR WALL
INSULATION SUMMARY SHEET

Exhibit 11
IP-22

1 CBKW308001

5 of 30

Prepared by Russell J. Brecklow DATE 8-24-83

Reviewed by Mike [unclear] DATE 8/25/83

see individual sheets

EXPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
STAPLES					
1	69	69			
2	1	1			
7	59	59			
8	61	61			
SCREWS					
3	5	5			
4	5	5			
9	5	5			
10	5	5			
ANCHORS PER DWG.					
HORIZONTAL	20	20			
VERTICAL					
5	15	15			
6	115 15	15			
ANCHOR PENETRATION					
HORIZONTAL	4	4	As per -0651		
ANCHOR BARS					
HORIZONTAL	2	2	As per PW-C-4004	None	D. Bryan
ANCHOR BARS					
			See sh. of		
			See sh. thru of		
			See sh. thru of		
BOLT ASSEMBLY					
Bolts (CC-904's)	109	112	3 extra bars	None	D. Bryan
in 18" gaps	/	/	As per -0651		
not over blister	/	/	As per -0760		
not excess coat	/	/	As per FOR-C-4426	FOR-C-4426	D. Bryan

**FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL**

Exhibit 8
TP-22

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CEMENT NO./LOCATION 1CBXW308001

DESIGN NUMBER
BENDING SCHEDULE NO. CAR-2167-G-0637(R5); -0636(R5)

Bethlehem Print 8099-41(R2)

INSPECTOR Dwight J. Brudlow DATE 8-23-83

LEAD ENGINEER [Signature] DATE 8/25/83

DESIGN QUANTITIES PER SHEET

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
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ITEM (MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
3 bars - "8"			1st Row Verticals 315° to 25-150			
50	5	5		Spacing Violations	PW-C-4040	D. Bryan
51	2	2			[Signature]	
259	1	1				
69	1	1				
70	1	1				
272	1	1				
173	2	2				
13	1	1				
93	1	1				
72	1	1				
91	1	1				
90	1	1				
79	1	1				
88	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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EMENT NO./LOCATION 1CBXW308001
 DRAWING NUMBER
 BENDING SCHEDULE NO. CAR-2167-G-0637(R5) ; -0636(R3)
Bethlehem Plant 8099-41(R2)

INSPECTOR Russell J. Brecklow DATE 8-23-83
 DESIGN ENGINEER Mike [Signature] DATE 8/25/83
 DESIGN QUANTITIES PER SHEET

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
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ITEM (RKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
5	1	1	1st Row Verticals E-150 to 160	Spacing Violations	PW-C-4040	D. Bryan
56	1	1				[Signature]
57	1	1				
58	1	1				
59	1	1				
60	1	1				
61	1	1				
62	1	1				
63	1	1				
64	1	1				
65	1	1				
66	1	1				
67	1	1				
68	1	1				
69	1	1				

**FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL**

Exhibit 8
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UNIT NO./LOCATION 1CBXW308001

NUMBER OF DWG SCHEDULE NO. CAR-2167-G-0637(R4); -0636(R4)

Bethlehem Print 8099-41(R2)

DESIGNED BY Daniel J. Bredlow DATE 8-23-83

ENGINEER Mike Bledsoe DATE 8/25/89

DESIGN QUANTITIES PER SHEET

HORIZONTALS 1,3,4,9,10	ADD. PER DWG. HOR./VERT.	DIAGONALS ROW 5,6	ADD. PENETRATION STEEL HOR./VERT./DIAG.	FACE BARS	RADIAL BARS INNER/OUTER	RING BARS	SHEAR ASSEMBLIES	OTHER
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VIOLATION	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
"B"	1	1	1st Row Verticals @ 5-150 to 160(cont.)	Spacing Violations	DW-C-4040	D. Bryan
	1	1			<i>D. Bryan</i>	
	1	1				
	1	1				
	1	1				
	1	1				
	13	13				
	1	1	2nd Row Verticals 315° to 16°	Spacing Violations NO R43 8-25-83	PW-C-4040	D. Bryan
					<i>D. Bryan</i>	

**FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL**

Exhibit 8
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MENT NO./LOCATION 1CBXW308001

ING NUMBER
SCHEDULE NO. CAR-2167-G-0633(R4); -0632(R4)

Bethlehem Print 8099-58(R1)

OR Russell J. Breedlove DATE 8-23-83

ENGINEER [Signature] DATE 8/25/83

DESIGN QUANTITIES PER SHEET

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
5	5							

ITEM (S)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
1208° <i>AP 2383</i>	(sets)		3rd Row Horizontals 315° to 160°			
3424 332	1	1		Spacing Violations	DWC-4040	D. Bryan
16	1	1			<i>[Signature]</i>	
17	1	1				
318	1	1				
319	1	1				
44 32	1	1	4th Row Horizontals 315° to 160°	Spacing Violations	DWC-4040	D. Bryan
314	1	1			<i>[Signature]</i>	
17	1	1				
18	1	1				
319	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

PLACEMENT N.O./LOCATION 1CBXW308001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. (PAR-2167-G-0638(R3); -0639(R3))

Bethlehem Print 8099-42(R2); -51(R0); -039(R0); -2(R4)

INSPECTOR Russell J. Breedlove

DATE 8-24-83

FIELD ENGINEER Alvin J. [Signature]

DATE 8/25/83

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
			17						
INSPECTED ITEM (BAR MARKS)	DESIGN QUANT.	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
Bethlehem Bars "8"									
640	1	1	6th Row Diagonals 315° to 45-150	Spacing Violations	PW-C-4004	D. Bryan			
641 CO to 94	1	1							
733 CO to 95	1	1							
94	1	1							
139	1	1							
138	1	1							
91A CO to 92B	1	1	45-150 to 16°						
92A CO to 93B	1	1							
93A CO to 93B	1	1							
104	1	1							
105	1	1							
106	1	1							
107	1	1							
108 CO to 512	1	1							
129 CO to 513	1	1							
#11	2	2	Add'l Diagonals	As per PW-C-4004	PW-C-4004	D. Bryan			

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW308001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CR-2167-G-0651(R4)

INSPECTOR Russell J. Breeding DATE 8-24-83
FIELD ENGINEER Mike Nielsen DATE 8/25/83
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 ASSEMBLES	OTHER
				14					

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			Add'l Horizontals Req. = 68'0 1/2			
CC-924 CC-919	✓ 1	1	El. 303'6 315° to & S-180	Spacing Violations	PW-C-4207	D. Bryan
CC-919	✓ 1	1	El. 304'0			
CC-924 CC-920	✓ 1	1	El. 304'6			
CC-928	✓ 1	1	El. 305'0			
CC-924 CC-921	✓ 1	1	El. 305'6			
CC-928	✓ 1	1	El. 306'0			
CC-924 CC-920	✓ 1	1	El. 306'6			
CC-928	✓ 1	1	El. 307'0			
CC-924 CC-921	✓ 1	1	El. 307'6			
CC-928	✓ 1	1	El. 308'0			
CC-911 CC-916	✓ 1	1	El. 303'6 & S-150 to 16°			
CC-913	✓ 1	1	El. 304'0			
CC-911 CC-922	✓ 1	1	El. 304'6			
CC-926	✓ 1	1	El. 305'0			

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW308001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0651(25)

INSPECTOR Russell J. Breedlove DATE 8-24-83
FIELD ENGINEER Mike Blackburn DATE 8/25/83
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
				6					
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
CC-911 CC-923	✓ 1	1	Add'l Horizontals (cont) El. 305'6	Spacing Violations	PW-C-4207	D. Bryan			
CC-926	✓ 1	1	El. 306'0						
CC-911 CC-922	✓ 1	1	El. 306'6						
CC-926	✓ 1	1	El. 307'0						
CC-911 CC-923	✓ 1	1	El. 307'6						
CC-926	✓ 1	1	El. 308'0						
CC-904	109	112	Shear Bars	Some top spliced 3 extra bars	FCR-C-2937	D. Bryan			
CC-929	4	4	Vertical Crack Control in 18" + gaps	None	None	N/A			

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW 308001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0650(R5); -0641(R5)
Bethlehem Print 8099-59(R1)

INSPECTOR Russell V. Breckler DATE 8-24-83
FIELD ENGINEER Mike [Signature] DATE 8/25/83
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
24									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars = "B"						
CC-767	3	3	8th Row Verticals 3/5" to 25-150	Spacing Violations	PO-C-4207	D. Bryen
CC-758	4	4				[Signature]
CC-757	3	3				
CC-759	2	2				
CC-256	2	2				
B-255	1	1				
B-237	1	1				
B-236	1	1				
B-235	1	1				
B-234	1	1				
B-233	1	1				
B-232	1	1				
B-231	1	1				
B-230	1	1				
B-229	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW308001

DRAWING NUMBER

BAR BENDING SCHEDULE NO. (AR-2167-G-0650(R3); -0641(R3))

Bethlehem Print 8099-59(K1)

INSPECTOR Russell V. Brecklow

DATE 8-24-83

FIELD ENGINEER Mike Blodgett

DATE 8/25/83

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
15									
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
Bewick Bars 2" B" B-228	1	1	8th Row Verticals 315040 & 5-190 (cont.)	Spacing Violations	PW-C-4207	D. Brien			
B-227	1	1							
B-226	1	1							
B-225	1	1							
B-224	1	1							
B-223	1	1							
B-222	1	1							
B-211	1	1	Q5-150 to 16°						
B-212	1	1							
B-213	1	1							
B-214	1	1							
B-215	1	1							
B-216	1	1							
B-217	1	1							
B-218	1	1							

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1 CBXW308001 ^{AB 8-25-83}
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0633(R4) - 0632(R4) - 0634(R4) - 0635(R4)
Bethlehem Print 8099-58(R1)

INSPECTOR Russell F. Brudlow DATE 8-23-83
FIELD ENGINEER Michael Gledhill DATE 8/25/83
DESIGN QUANTITIES PER SHEET

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

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars = "B" (sets)			9th Row Horizontals 315° to 16°			
CC-496, B-344 ✓ CC-400, B-332 ✓	1	1		Spacing Violations	PW-C-4207	D. Bryan
CC-496, B-359 ✓ CC-400, B-346 ✓	1	1				
CC-496, B-377 ✓ CC-400, B-377 ✓	1	1				
CC-496, B-318 ✓ CC-400, B-318 ✓	1	1				
CC-496, B-319 ✓ CC-400, B-319 ✓	1	1				
CC-455, B-344 ✓ CC-401, B-332 ✓	1	1	10th Row Horizontals 318° to 16°	Spacing Violations	PW-C-4207	D. Bryan
CC-455, B-359 ✓ CC-401, B-346 ✓	1	1				
CC-455, B-317 ✓ CC-401, B-317 ✓	1	1				
CC-455, B-318 ✓ CC-401, B-318 ✓	1	1				
CC-455, B-319 ✓ CC-401, B-319 ✓	1	1				

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FIELD INSPECTION REPORT FOR CONTAINMENT EXTERIOR WALL PENETRATION STEEL

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PLACEMENT NO./LOCATION 1CBXW308001

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

RI 882-2543
Bethlehem Prints 8099-62 (22); -63 (22); -66 (21); -68 (20)

INSPECTOR Russell J. Freedlove DATE 9-24-83

FIELD ENGINEER Michael S. [Signature] DATE 10/25/83

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	RIP'S BARS	SHEAR BOLT ASSEMBLIES	OTHER
						128/30			

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
<i>Radial Bars</i> 2	15 _N	15	Layer 1 Radials Rad. = 66.042'	None	None	N/A
1	17 _N	17	↓	↓	↓	↓
22	15 _N	15	Layer 2 Radials Rad. = 66'7"	None	None	N/A
21	17 _N	17	↓	↓	↓	↓
2	15 _N	15	Layer 3 Radials Rad. = 67'2"	None	None	N/A
1	17 _N	17	↓	↓	↓	↓
2	15 _N	15	Layer 4 Radials Rad. = 67'9"	None	None	N/A
1	17 _N	17	↓	↓	↓	↓
2	14 _N	14	Layer 5 Radials Rad. = 69.48'	None	None	N/A
1	16 _N	16	↓	↓	↓	↓

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1 CBXW 309001

DRAWING NUMBER
BAR BENDING SCHEDULE NO.

Bethlehem Prints 8099-64(21); 64A(21)

INSPECTOR Russell V. Brecklow

DATE 9-24-83

FIELD ENGINEER Mike Blodgett

DATE 8/25/83

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 RADIAL BARS BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
						15		

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars	(Sets)					
A-11 A-12	✓ 1	1	Layer "A" Ring Bars Rad. = 65' 9 3/4"	None	None	N/A
B-11 B-12	✓ 1	1	Layer "B" Ring Bars Rad. = 66' 4 1/4"	None	None	N/A
C-11 C-12	✓ 1	1	Layer "C" Ring Bars Rad. = 66' 11 1/4"	None	None	N/A
C-21 C-22	✓ 1	1				
C-31 C-33	✓ 1	1				
C-51 C-52	✓ 1	1				
C-61 C-62	✓ 1	1				
C-71 C-73	✓ 1	1				
C-81 C-82	✓ 1	1				
C-91 C-92	✓ 1	1				
C-101 C-102	✓ 1	1				
C-111 C-112	✓ 1	1				
C-121 C-122	✓ 1	1				
C-131 C-132	✓ 1	1				
C-141 C-142	✓ 1	1				

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FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

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PLACEMENT NO./LOCATION 1 CBXW308001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Prints 9099-64A(21); -64B(21)

INSPECTOR Russell S. Bredlow

DATE 8-24-83

FIELD ENGINEER Mike Johnson

DATE 8/25/83

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 RADIAL BARS BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
						15		
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED		
Bethlehem Bars = "B" C-151 C-152	1	1	Layer "C" Ring Bars Rad. = 66'11 1/4 (cont.)	None	None	N/A		
C-161 C-162	1	1						
C-171 C-172	1	1						
C-181 C-182	1	1						
C-191 C-192	1	1						
(2x)C-201 C-202	1	1						
C-211 (2x)C-212	1	1						
(2x)C-221 C-222	1	1						
C-231 (2x)C-232	1	1						
(2x)C-241 C-242	1	1						
D-11 D-12	1	1	Layer "D" Ring Bars Rad. = 67'6 1/4	None	None	N/A		
D-21 D-22	1	1						
D-31 D-32	1	1						
D-51 D-52	1	1						
D-61 D-63	1	1						

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

24 of 30

PLACEMENT NO./LOCATION 1CBK0308001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-64B(K1)

INSPECTOR Russell V. Breedlove

DATE 8-24-83

FIELD ENGINEER Mike [Signature]

DATE 8/25/83

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		

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars						
D-71 D-72	1	1	Layer "D" Ring Bars Rad. = 67' 0 1/4 (cont.)	None	None	N/A
D-81 D-82	1	1				
D-91 D-92	1	1				
D-101 D-102	1	1				
D-111 D-112	1	1				
D-121 D-122	1	1				
D-131 D-132	1	1				
D-141 D-142	1	1				
D-151 D-152	1	1				
D-161 D-162	1	1				
D-171 D-172	1	1				
D-181 (2x) D-182	1	1				
(2x) D-191 D-192	1	1				
D-201 (2x) D-202	1	1				
(2x) D-211 D-212	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

25 of 30

PLACEMENT NO./LOCATION 1CBXW308001

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Print 9099-64B(R1);-64(R1)

INSPECTOR Russell J. Brecklaw DATE 9-24-83

FIELD ENGINEER [Signature] DATE 8/25/83

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
							13		

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars D-221 (2x) D-222	1	1	Layer "D" Ring Bars Rad. = 67'6 1/4 (cont.)	None	None	N/A
(2x) D-231 D-232	1	1				
D-341 (2x) D-242	1	1				
(2x) D-251 D-252	1	1				
D-261 (2x) D-262	1	1				
(2x) D-271 D-272	1	1				
D-281 (2x) D-292	1	1				
(2x) D-291 D-292	1	1				
D-301 (2x) D-302	1	1		↓	↓	↓
E-11 E-12	1	1	Layer "E" Ring Bars Rad. = 68'7	None	None	N/A
E-21 E-22	1	1		↓	↓	↓
F-11 F-12	1	1	Layer "F" Ring Bars Rad. = 69'1 1/2	None	None	N/A
F-21 F-22	1	1		↓	↓	↓

Rev. 1
9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

26 of 30

PLACEMENT NO./LOCATION LCXW308001

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Print 8099-64C(R1)

INSPECTOR Donald J. Breedlove DATE 8-24-83

FIELD ENGINEER M. J. [Signature] DATE 8/25/83

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
							15		

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars						
G-11	1	1	Layer "G" Ring Bars	None	None	N/A
G-12			Rad. - 6@9 1/2			
G-21	1	1				
G-22	1	1				
G-41	1	1				
G-42	1	1				
G-51	1	1				
G-53	1	1				
G-61	1	1				
G-62	1	1				
G-71	1	1				
G-73	1	1				
G-81	1	1				
G-82	1	1				
G-91	1	1				
G-92	1	1				
G-101	1	1				
G-102	1	1				
G-121	1	1				
G-122	1	1				
G-131	1	1				
G-132	1	1				
G-141	1	1				
G-142	1	1				
G-161	1	1				
G-162	1	1				
G-171	1	1				
G-172	1	1				
G-181	1	1				
G-182	1	1				

Rev. 1
9/80

Exhibit 8
TP-22

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

27 of 30

PLACEMENT NO./LOCATION 1CBXL030800

DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. _____

Bethlehem Drm: 8099-64C(ri) - 64D(ri)

INSPECTOR Ronald J. Brezillon DATE 8-24-83

FIELD ENGINEER Michael J. ... DATE 8/25/83

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
							14		

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Bethlehem Bars G-191 (2x) G-192	1	1	Layer "G" Ring Bars Rad. = 69' 8 1/2 (cont.)	None	None	N/A
(2x) G-201 G-202	1	1				
G-211 (2x) G-212	1	1				
(2x) G-221 G-222	1	1				
(2x) G-241 G-242	1	1				
G-251 (2x) G-252	1	1				
(2x) G-261 G-262	1	1				
H-11 H-12	1	1	Layer "H" Ring Bars Rad. = 70' 3 1/2	None	None	N/A
H-21 H-22	1	1				
H-41 H-43	1	1				
H-51 H-52	1	1				
H-61 H-63	1	1				
H-71 H-72	1	1				
H-81 H-82	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

28 of 30

PLACEMENT NO./LOCATION CBW308001

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. _____

Bethlehem Dymt 9099-64D(e)

INSPECTOR Russell J. Breedlove

DATE 8-24-83

FIELD ENGINEER Mike [Signature]

DATE 8/25/83

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		
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED			
Bethlehem Bars "B" H-91 H-92	1	1	Layer "H" Ring Bars Rad. = 70' 3 1/2 (cont.)	None	None	N/A			
H-101 H-102	1	1							
H-121 H-122	1	1							
H-241 (2x) H-242	1	1							
J-11 J-12	1	1	Layer "J" Ring Bars Rad. = 70' 10 1/2	None	None	N/A			
J-21 J-22	1	1							
J-41 J-42	1	1							
J-51 J-53	1	1							
J-61 J-62	1	1							
J-71 J-73	1	1							
J-81 J-82	1	1							
J-91 J-92	1	1							
J-101 J-102	1	1							
J-121 J-122	1	1							
J-131 J-132	1	1							

CAROLINA POWER & LIGHT CO. COMPANY
SHNPP

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

PLACEMENT NO. 1CBXW308001
DRAWING & REV. CAR-2167-G-0631 (R2)

R43 9-6-83
PAGE 30 OF 33

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (1 OR LL, 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-150 ± A2. 346'0 ± El. 298'0	1) Penetration 24'0 Type II	Nelson Stud Shear Connectors Bent	PW-C-4299 (All welds visually examined - no breaks) <i>D. Bryan</i>	<i>R. Breedlove</i> D. Bryan 8-24-83
ANCHOR BOLTS					
OTHER	Various (@ intersections of ring bars & radial bars)	Shear Bolts (94) (2) 1 1/2" Rods A193 B7 (2) 3/4" Plates A-36 (2) 1 1/2" Nuts 194 BH (1) 1 1/2" Sleeve A1019	1) Tack welds & epoxy eliminated 2) some bolts shifted one bar spacing	1) FCR-C-4097 <i>D. Bryan</i> 2) FCR-C-4228 <i>D. Bryan</i>	<i>R. Breedlove</i> D. Bryan 8-24-83

CAROLINA POWER & LIGHT COMPANY
SHF ON HARRIS NUCLEAR POWER PLANT
POST PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXLJ308001 LOCATION A2. 3150 to 16', el. 303' to 308'
 PLACED 8-29-83 SURFACE AREA N/A
 END OF CURE 9-5-83 CURE COMPOUND (AMOUNT) N/A
 CURE/PROTECTION REQUIREMENTS Mild exposure/ext. prot. / 7 days moist / 1ft

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

FORMS

Form & Shoring Removal Sat 9-22-83 RLB

REPAIRS

Type of Repair Required Cosmetic Structural Forms Still In Place RLB

EMBED PLATES W/SCREW-IN-STUDS

Thread Engagement N/A RLB

SEISMIC GAP

Proper Gap Maintained N/A RLB

CURING/PROTECTION

	EXTENSIONS	REMARKS	
A. Water <input checked="" type="checkbox"/>	N/A	Sat - 7 days moist	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. Polyethylene	N/A	N/A	RLB
G. Temperature <input checked="" type="checkbox"/>	N/A	Sat - 7 days $\geq 50^{\circ}F$	RLB

COMMENTS:

TWS CONSTRUCTION INSPECTOR Russell S. Brecklow DATE 9-22-83

CONSTRUCTION INSPECTION SUPERVISOR Thomas Smith DATE 9-26-83

PLACEMENT NO. ICB X6308001

DATE 8-29-83

MODE OF PLACEMENT Pump Dis.

LOCATION #1 Cent. Bldg.

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			
98623	7:25 AM	3	6	80	CP&L 4944B	10.0+	4767B	142.4	4767B	CP&L 5048B	3430	4930	4810	1	10664	5 yds RES.	
98624	10:00 AM																8
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
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	PM																
	AM																
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	AM																
	PM																
	AM																
	PM																

FOR INFORMATION ONLY

SLUMP REQUIRED 0-8 MAX. in.

DESIGN MIX # USED M-80

FIELD QA/QC INSPECTOR John Holland

DATE 8-29-83

AIR REQUIRED 4-8 %

DESIGN STRENGTH FOR PLACEMENT 5000 psi

LAB QA/QC INSPECTOR Wendy J. Wolf

DATE 9-26-83

QA/QC SPECIALIST Donald J. Suggs

DATE 10-4-83

264

PLACEMENT * 1CBXW308001
M-80 5000 PSI

LAB NO.	AVG. 28-DAY STRENGTH	AVG. OF THREE CONSECUTING TEST
10639	5275	5647
10654	6795	6040
10664	4870	5632
10685	6455	
10699	5570	

EVALUATION IN ACCORDANCE WITH CAR-SH-CH-6

- ① THE 28-DAY AVERAGE STRENGTH TESTS ARE NOT MORE THAN 500 PSI BELOW THE DESIGN STRENGTH OF 5000 PSI.
- ② THE AVERAGE OF ALL GROUPS OF THREE CONSECUTIVE TESTS ARE ABOVE THE DESIGN STRENGTH OF 5000 PSI.
- ③ THE 28-DAY STRENGTH TEST IS NOT CONSIDERED A FAILURE.

John C. ... 10-7-83

CONCRETE
PLACEMENT
REPORT

SHNPP

FILE

PLACEMENT NUMBER

11CBXW34H0101

LOCATION (INCLUDE ELEV. IF IN BLDG.)

EDTANMENT #1 EL 341

SCHEDULED DATE:

9/21/83

0113 336003
9/14/83

TYPE PLACEMENT

EXT. WALL

ESTIMATED QUANTITY

75 C.Y.

TEMP LIMIT

90°

SLUMP LIMIT

8-8

"SEISMIC CLASS I

YES NO

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES) *hrs 9/22/83* CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF	UNFORMED SURF
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	<input checked="" type="checkbox"/> INTERNAL	<input checked="" type="checkbox"/> STEEL TROWEL	<input type="checkbox"/> FORMS ALONE	<input checked="" type="checkbox"/> WET BURLAP
BUCKET <input type="checkbox"/>	TREMIE <input type="checkbox"/>	<input checked="" type="checkbox"/> FORM	<input checked="" type="checkbox"/> WOOD FLOAT	<input type="checkbox"/> TARPS	<input type="checkbox"/> POLYETHYLENE
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> HAIR BRUSH	<input type="checkbox"/> INSULATION	<input type="checkbox"/> CURING COMPOUND:
PUMP <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	KUREZ <input checked="" type="checkbox"/>
TRUCK <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RUBBER FLOAT <input type="checkbox"/>	<input type="checkbox"/>	ON CURING COMPOUND <input type="checkbox"/>
	SERVICE COND. <i>W/P</i>				QUAD CURE <input type="checkbox"/>
	PROTECTION <i>ELT/ST/ST</i>				GALLONS REQUIRED <i>3/4</i>

ANTICIPATED WEATHER CONDITIONS:

HOT

CURE (DAYS)

7

COMMENT & CLARIFICATION TO PROPOSED METHODS

EQUIP MATCH AREA A2 315-16

PRIMARY MASONRY DWG. NO.

2167-6-06312-8

RATE OF RISE

2 1/4" / hr

06 330.25 - 344 336 *0113 9/13/83*
+ 450 09-12 *PUMP CONC CURT*

DES. STRENGTH

50KSI

DESIGN MIX CODE

A-1801

NAME/TITLE PERSON SUBMITTING ALL THE ABOVE

BY: *[Signature]* TITLE: *AC* DATE: *9/8/83*

PRE-PLACEMENT
CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY CONTROL

1	CONTACT SURFACES	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	Q.C. SIGNOFF	
							DATE	DATE
1	CONTACT SURFACES	W.P. 05	<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>		
2	FORMS	W.P. 22	<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>		
3	REINFORCING STEEL	W.P. 11	<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>		
4	EMBEDS		<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>		
5	MECHANICAL		<i>[Signature]</i>	<i>[Signature]</i>	9/23	<i>[Signature]</i>	<i>[Signature]</i>	9-19-83
	PIPE	W.P. 102	<i>[Signature]</i>	<i>[Signature]</i>	9/19	<i>[Signature]</i>	<i>[Signature]</i>	
6	ELECTRICAL	W.P. 201	<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>	<i>[Signature]</i>	9-20-83
7	CADWELDS	W.P. 01	<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>	<i>[Signature]</i>	9-20-83
8	BOP WELDING		<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>	<i>[Signature]</i>	9-19-83
9	CODE WELDING		<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>	<i>[Signature]</i>	9/19/83
	SEISMIC WELDING		<i>[Signature]</i>	<i>[Signature]</i>	9/20	<i>[Signature]</i>	<i>[Signature]</i>	9/19/83
10	CLEAN-UP	W.P. 05	<i>[Signature]</i>	<i>[Signature]</i>	9-20	<i>[Signature]</i>		

CONSTRUCTOR SIGNOFF (AREA SUPT)

[Signature]

TIME: 8:15

DATE: 9-20-83

C. SIGNOFF

[Signature]

TIME: 8:45 AM

DATE: 9-20-83

DESIGN APPROVAL

[Signature]

TIME OF START

DATE: 9/20/83 11:30 AM

DATE PLACED

09 210 813

YDS. CONCRETE DELIVERED

010916

YDS PLACED IN THIS PLACEMENT

87

YARDS WASTED

CONCRETE 0 1 0
GROUT 0 0 1

YDS. GROUT DELIVERED

012

CONCRETE

0 0 8 6

YDS PLACED ELSEWHERE

CONCRETE 0 0 0
GROUT 0 0 0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: *[Signature]*

TITLE: C.I.

DATE: 9-22-83

REMARKS (ATTACH RELEVANT REPORTS)

* Bulkhead @ top to be continuously wet during placement - Sat RB 9-20-83
* Recheck prior to placement - Sat RB 9-20-83

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW 336 003

LOCATION Cont. #1 Ext. Wall

Az. 315° to 160°, el. 330.25' to 336.25'

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	N/A	RLB
COMMENTS * Some excess water on top of placement due to continuous wetting of top bulkhead. Water was removed and all results satisfactory. The <u>last</u> placement!		

CONSTRUCTION INSPECTOR Russell J. Bruckner DATE 9-22-83

CONSTRUCTION INSPECTION SUPERVISOR Thomas Smith DATE 9/22/83

FOR INFORMATION ONLY

FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGS

Placement Number 1 CBXW336003

Coordinates Az. 315°± to 16°±

Elevation 330.25' to 336.75'

Computer Printout Reviewed 9-19-83

Daily Document Log Checked 9-19-83

Document Control Contacted 9-19-83

C.I. Review Russell J. Brecklowe

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-G-0630 (R8)
-0631 (R8)

-PW-C-4040 (Spacing - Rows 1, 2, 3, 4)

PW-C-4004 (Spacing - Rows 5 & 6)

PW-C-4207 (Spacing - Rows 7, 8, 9, 10)

FCR-C-2825 (Spacing - 8th Row @ 16°)

Reinforcing CAR-2167-G-D637 (R9)
-0636 (R5)

FCR-C-1427 (Add'l Steel - 18" gaps)

FCR-C-716 (Liner plate tolerance)

-0633 (R4)

FCR-C-4298 (Const. Joint changes)

-0632 (R4)

FCR-C-4264 (Liner plate out-of-tolerance)

-0638 (R6)

FCR-C-4426 (Excess cover)

-0639 (R6)

FCR-C-2937 (Lapping of Shear Bars)

-0650 (R5)

FCR-C-1475 (Const. Jt. Changes)

-0651 (R5)

Time 11/23/82
Embeds
RJB 9-19-83

-0641 (R5)

Bethlehem Steel Corp. (Reinforcing)

-0635 (R4)

8099-41 (R2)

-0634 (R4)

-48 (R1)

-0764 (R3)

-46 (R1)

Penetrations

-1 (R2)

-51 (R0)

-49 (R1)

-39 (R0)

LINER PLATE
Boyer
Time 11/23/83

CAR-2168-G-228 (R1)

-2 (R4)

-59 (R1)

Bar Bending

CAR-2167-B-9009 -

3, 5, 6, 7, 8, 9

Add'l Cadwelds Added

[Signature] / S.E. FIELD ENG.
MS-R11163

CONTAINMENT EXTERIOR WALL
INSPECTION SUMMARY SHEET

Sh. 4 of 19

PLACEMENT NO. 1CBXW336003

INSPECTOR Ronald V. Brecklow

D. DATE 9-19-83

FIELD ENGINEER Mike J. Jordon

DATE 9/19/83

See individual sheets

LOCATION	INSPECTED ITEM	DESIGN QUANTITY	ACTUAL QUANTITY	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Ra. 3150 to 16° El. 330.25' to 336.75'	VERTICALS					
	ROW 1	✓ 90	90			
	ROW 2	✓ 8	8			
	ROW 7	✓ 70	70			
	ROW 8	✓ 83	84	One extra bar	None	D. Bryan
	HORIZONTALS					
	ROW 3	✓ 9	9			
	ROW 4	✓ 9	9			
	ROW 9	✓ 10	10			
	ROW 10	✓ 10	10			
ADDITIONAL PER DWG.						
HORIZONTAL						
VERTICAL						
DIAGONAL						
ROW 5	✓ 23	23				
ROW 6	✓ 22 23	22 23	One extra bar	None	D. Bryan	
ADD. PENETRATION		22	23			
STEEL / VERTICAL						
HORIZONTAL						
DIAGONAL						
FACE BARS						
RADIAL BARS						
INNER						
OUTER						
RING BARS						
SHEAR BOLT ASSEMBLY						
OTHER						
Shear Bars (at 90°'s)	869	873	See ch. 7 of 19			
Bars in 18" gaps	✓	✓	As per -0651		None	N/A
Excess cover mat	✓	✓	As per FCR-C-4426		None	N/A

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

5 of 19

PLACEMENT NO./LOCATION 1CBXW336003

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. CAR-2167-G-0637(RS); -0636(RS)

Beth. Print 8099-41(R2)

INSPECTOR Russell F. Smedley DATE 9-16-83

FIELD ENGINEER Michael J. ... DATE 9/19/83

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 BOL. ASSEMBLIES	OTHER
56									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DEVIATION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Beth. Bars = "B"			1st Row Verticals	Spacing Violations	PW-C-4040	D. Bryan
CC-278 ✓	1	1	3150 to 16°			
CC-268 ✓	^{218 9-16-83} 9-810	9				
CC-365 ✓	1	1				
CC-265 ✓	2	2				
CC-264 ✓	^{218 9-16-83} 23	3				
CC-317 ✓	30	30				
B-293 ✓ CD to CC-317	1	1				
B-291 ✓ CD to CC-317	1	1				
B-289 ✓ CD to CC-317	1	1				
B-287 ✓ CD to CC-317	1	1				
B-285 ✓ CD to CC-317	1	1				
B-283 ✓ CD to CC-317	1	1				
B-281 ✓ CD to CC-317	1	1				
B-279 ✓ CD to CC-317	1	1				
B-277 ✓ CD to CC-317	1	1				
B-275 ✓ CD to CC-317	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

6 of 19

PLACEMENT NO./LOCATION 1CBKW336003

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0637(R5) ; -0636(R5)

Beth. Print 8099-41(2)

INSPECTOR Russell J. Brecklow DATE 9-16-83

FIELD ENGINEER Mike [Signature] DATE 9/17/83

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 4,7,8	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									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Beth. Bars = "8" B-273 CD to CC-317	1	1	1 st Row Verticals (cont.)	Spacing Violations	DW-C-4040	D. Bryan
B-309 CD to CC-317	1	1				
B-307 CD to CC-317	1	1				
B-308 CD to CC-317	1	1				
B-303 CD to CC-317	1	1				
B-301 CD to CC-317	1	1				
B-299 CD to CC-317	1	1				
B-297 CD to CC-317	1	1				
B-295 CD to CC-317	1	1				
B-256 CD to CC-317	1	1				
B-258 CD to CC-317	1	1				
B-260 CD to CC-317	1	1				
B-262 CD to CC-317	1	1				
B-264 CD to CC-317	1	1				
B-266 CD to CC-317	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

7 of 19

PLACEMENT NO./LOCATION 1CBXW336003

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0637(RS); -0636(RS)

Allechem Print 8099-41(R2)

INSPECTOR Russell J. Brecklen DATE 9-16-93

FIELD ENGINEER Michael [Signature] DATE 9/19/93

DESIGN QUANTITIES PER SHEET

VERTICALS ROW 4,7,8	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
19	8								

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Belt. Bars "B" B-268 CD to CC-317	1	1	1st Row Verticals (cont.)	Spacing Violations	PW-C-4040	D. Bryan
B-270 CD to CC-317	1	1				
B-272 CD to CC-317	1	1				
B-312 CD to CC-317	1	1				
CC-268	RW 4/16/93 13	13				
CC-365	TWC 9/22/93 1	1				
CC-278	1	1				
CC-904	869	873	Shear Bars	90 partially embedded in CBXW336001, some have < 6" N/C splice. → 4 extra bars OK - [Signature]	FCR-C-2937 # 182 FCR-C-1475	D. Bryan
CC-379 CD to CC-370	RW 9/19/93 86	6	2nd Row Verticals 315° to 16°	Spacing Violations	PW-C-4040	D. Bryan
#19 CD to CC-370	2	2	As per 0637			

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

10 of 19

PLACEMENT NO./LOCATION 1CBXW336003

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0638(R1); -0639(R1)

Beth. Prints 8094-48(R1); -46(R1); -1(R2)

INSPECTOR Russell A. Bredlowe DATE 9-16-83

FIELD ENGINEER Michael Bredlowe DATE 9/19/83

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
			15						

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Beth. Bars						
720	✓ 1	1	5th Row Diagonals 315° to 16°	Spacing Violations	AWC-4004	D. Bryson
721 CD to 712	✓ 1	1				
722	✓ 1	1				
713 CD to 723	✓ 1	1				
721 CD to 57	✓ 1	1				
723 CD to 40	✓ 1	1				
714 CD to 39	✓ 1	1				
715 CD to 38	✓ 1	1				
725 CD to 37	✓ 1	1				
724 CD to 36	✓ 1	1				
716 CD to 7	✓ 1	1				
725 CD to 6	✓ 1	1				
717 CD to 5	✓ 1	1				
621 CD to 4	✓ 1	1				
620 CD to 3A	✓ 1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

12 of 19

PLACEMENT NO./LOCATION 1CBXW336003

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. QAR-2167-G-0638(R4); -0639(R3)

Bethlehem Prints 8099-51(R0); -49(R1); -39(R0); -2(R4)

INSPECTOR Russell J. Buehler DATE 9-16-83

FIELD ENGINEER Michael J. [Signature] DATE 9/19/83

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
			13						

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Beth. Bars			Left Row Diagonals 315° to 160°			
738 CD to 134	1	1		Spacing Violations	PWC-4004	D. Bryan
#18	0	1		One extra bar	None.	D. Bryan
739 CD to 133	1	1		OK		
719 CD to 132	1	1				
720 CD to 131	1	1				
739 CD to 130	1	1				
740 CD to 91B	1	1				
721 CD to 92B	1	1				
739 CD to 93B	1	1				
722 CD to 104	1	1				
741 CD to 105 105 PWC 9-21-83	1	1				
739 CD to 106	1	1				
723 CD to 107	1	1				
724 CD to 108	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

14 of 19

PLACEMENT NO./LOCATION ICBXW336003
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0650(R5); -0641(R5); -0691(R5)

INSPECTOR Russell J. Brydell DATE 9-16-83
FIELD ENGINEER Mike [Signature] DATE 9/19/83
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
70									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CC-759 CO to CC-775	1	1	7th Row Verticals 318° to 16°	Spacing Violations	4207 D.C. Wood 10/9-83	D. Bryan
CC-379 CO to CC-775	2	2				
CC-804	1	1	u			
#18 CO to CC-775	1	1	As per -0651			
CC-908	11	11	u			
CC-909	11	12 11	TWS 9-22-83	One extra bar	None	D. Bryan
CC-910	2	2				
CC-908	14	14				
CC-909	13	13				
CC-908	11	11				
CC-804	3	3				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

15 of 19

PLACEMENT NO./LOCATION 1CBXW336003

DRAWING NUMBER _____

BAR BENDING SCHEDULE NO. (AR-2167-G-0650(RS); -0641(RS))

Both. Print 8099-59(R1)

INSPECTOR Russell F. Brecklene DATE 9-16-83

FIELD ENGINEER Michael S. ... DATE 9/19/83

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
58									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
<i>Both. Bars "B"</i> CC-801 ✓	1	1	8 ¹ / ₂ Row Verticals 315° to 16°	Spacing Violations	DW-C-4207	D. Bryan
CC-804 ✓	1	1				
CC-802 ✓	1	1				
CC-776 ✓	40 32	40				
CC-753 ✓ CD to CC-775	4	4				
CC-759 ✓ CD to CC-775	2	2		u	u	u
#18 (CD to CC-775) ✓	0	1		1 extra bar	None	D. Bryan
B-255 ✓ CD to CC-775	1	1		u	u	u
B-236 ✓ CD to CC-775	1	1				
B-233 ✓ CD to CC-775	1	1				
B-231 ✓ CD to CC-775	1	1				
B-229 ✓ CD to CC-775	1	1				
B-227 ✓ CD to CC-775	1	1				
B-225 ✓ CD to CC-775	1	1				
B-223 ✓ CD to CC-775	1	1				
B-275 ✓ CD to CC-775	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

16 of 19

PLACEMENT NO./LOCATION 1 CBXW336003

DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0650(RS) ; -0641(RS)

Bethlehem Print 8099-59(R1)

INSPECTOR Ronald S. Brecklone DATE 9-16-83

FIELD ENGINEER William J. Glendon DATE 9/19/83

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									

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
Beth. Bars = "B" B-253 CD to CC-775	1	1	8 th Row Verticals 3 (Cont.)	Spacing Violations	PWC-4207	D. Bryan
B-251 CD to CC-775	1	1				
B-249 CD to CC-775	1	1				
B-247 CD to CC-775	1	1				
B-245 CD to CC-775	1	1				
B-243 CD to CC-775	1	1				
B-241 CD to CC-775	1	1				
B-234 CD to CC-775	1	1				
B-211 CD to CC-775	1	1				
B-213 CD to CC-775	1	1				
B-215 CD to CC-775	1	1				
B-217 CD to CC-775	1	1				
B-219 CD to CC-775	1	1				
B-220 CD to CC-775	1	1				
B-221 CD to CC-775	1	1				

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
PENETRATION STEEL

180A19

PLACEMENT NO./LOCATION 1CBXW336003
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0634(R4); -0635(R4)

INSPECTOR Russell J. Brudlow DATE 9-16-83
FIELD ENGINEER Mike Blanton DATE 5/19/83
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 RADIAL BARS BARS INNER/OUTER	RING BARS	SHEAR BOLT ASSEMBLIES	OTHER
	10							

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			9th Row Horizontals 315° to 16°			
CC-446, CC-449 CC-400	1	1		Spacing Violations	PW-C-4207	D Bryan
CC-418, CC-449 CC-420	1	1				
CC-446, CC-449 CC-400	1	1				
CC-446, CC-449 CC-400	1	1				
CC-420, CC-449 CC-400	1	1				
CC-446, CC-449 CC-400	1	1				
CC-446, CC-449 CC-400	1	1				
CC-418, CC-449 CC-420	1	1				
CC-446, CC-449 CC-400	1	1				
CC-446, CC-449 CC-400	1	1				

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

PLACEMENT NO. 1CBXW.336003
PLACED 9-20-83
END OF CURE 9-27-83
CURE/PROTECTION REQUIREMENTS Mild exposure / Extended Protection / 7 days moist

LOCATION A2. 315° to 160°, el. 330.29' to 336'
SURFACE AREA 500 ft²
CURE COMPOUND (AMOUNT) 2 1/2 gals.

CHECKLIST	REMARKS	INITIALS
<u>FINISH</u>		
A. Steel Trowel	N/A	RLB
B. Wood Float	✓ Applied after head box removal - Sat	RLB
C. Broom	N/A	RLB
D. Hair Brush	↓	RLB
E. Rubber Float	↓	RLB
F. Keyways Installed	N/A	RLB

FORMS

Form & Shoring Removal	Sat	RLB
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REPAIRS

Type of Repair Required	<input checked="" type="checkbox"/> Cosmetic <input type="checkbox"/> Structural <input type="checkbox"/> Forms Still In Place	RLB
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EMBED PLATES W/SCREW-IN-STUDS

Thread Engagement	N/A	RLB
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SEISMIC GAP

Proper Gap Maintained	N/A	RLB
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CURING/PROTECTION

	EXTENSIONS	REMARKS	
A. Water	N/A	Sat. Kurex verified	RLB
B. Curing Compound	↑	3 1/4 gal. extra added Kurex verified	RLB
C. Ponding	↓	N/A	RLB
D. Burlap	↓	↓	RLB
E. Wet Sand	↓	↓	RLB
F. Polyethylene	N/A	N/A	RLB
G. Temperature	N/A	Sat. 7 days ≥ 50°F	RLB

COMMENTS: ~~3 1/4 gal. reappplied @ C.I. Inspectors request~~ RLB 10-25-83

* 3/4 gal. applied to head box area, removed during chipping operations -
2 1/2 gals. on final product

CONSTRUCTION INSPECTOR Russell J. Buccellone DATE 10.24.83

CONSTRUCTION INSPECTION SUPERVISOR Thomas Smith DATE 10/26/83

FOR PLACEMENT # 1CBYW336003

M-80 5000 PSI

LAB NO.	AVG 28-DAY STRENGTH	AVG OF THREE CONSECUTIVE TESTS
10705	5090	5355
10712	5980	5792
10719	4995	6120
10803	6400	
10823	6965	

EVALUATION IN ACCORDANCE WITH CAR-SH-CH-6

- ① THE 28-DAY AVERAGE STRENGTHS ARE NOT MORE THAN 500 PSI BELOW THE DESIGN STRENGTH OF 5000 PSI.
- ② THE AVERAGE OF ALL GROUPS OF THREE CONSECUTIVE TEST ARE ABOVE THE DESIGN STRENGTH OF 5000 PSI.
- ③ THE 28 DAY STRENGTH TEST IS NOT CONSIDERED A FAILURE.

Aug Ch 11-21-83

DJ 11-21-83

**CONCRETE
PLACEMENT
REPORT**

000569 SHNPP

FILE

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PLACEMENT NUMBER 1CBXW386001

LOCATION (INCLUDE ELEV. IF IN BLDG.) CONT. of FLOW 3X70 356 SCHEDULED DATE: 3/12/82

TYPE PLACEMENT <u>EXT. WALL</u>	ESTIMATED QUANTITY <u>355CY</u>	TEMP LIMIT <u>90°F</u>	SLUMP LIMIT <u>4"</u>	SEISMIC CLASS I <input checked="" type="checkbox"/>	YES NO
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PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF.	UNFORMED SURF.
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	STEEL TROWEL <input checked="" type="checkbox"/>	FORMS ALONE <input type="checkbox"/>	WET BURLAP <input checked="" type="checkbox"/>
BUCKET <input type="checkbox"/>	TREMIE <input type="checkbox"/>	FORM <input checked="" type="checkbox"/>	WOOD FLOAT <input type="checkbox"/>	TARPS <input type="checkbox"/>	POLYETHYLENE <input type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>		HAIR BRUSH <input type="checkbox"/>	INSULATION <input type="checkbox"/>	CURING COMPOUND <input type="checkbox"/>
PUMP <input checked="" type="checkbox"/>			BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	KUREZ <input type="checkbox"/>
TRUCK <input type="checkbox"/>			RUBBER FLOAT <input type="checkbox"/>		NUTEC 10 <input type="checkbox"/>
					QUAD CURE <input type="checkbox"/>
					GALLONS REQUIRED <input type="checkbox"/>

ANTICIPATED WEATHER CONDITIONS: COLD PROTECTION: ENCLOSURE CURE (DAYS): 7 days

PRIMARY MASONRY DWG. NO. CM-267-6-0630 R-7 RATE OF RISE 4x slope down to 2x4-07-22"

DES. STRENGTH 4025 DESIGN MIX CODE M-312 NAME/TITLE PERSON SUBMITTING ALL THE ABOVE: David By TITLE: Supervisor DATE: 3/11/82

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			CONST. INSPECTION		QUALITY ASSURANCE			
	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	G.C. SIGNOFF	DATE	Q.A. SIGNOFF
1 CONTACT SURFACES	WR-05	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3/11/82	R. Buehler
2 FORMS	WR-22	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3/11/82	R. Buehler
3 REINFORCING STEEL	WR-11	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3/11/82	R. Buehler
4 EMBEDS	WR-11	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3/11/82	R. Buehler
5 MECHANICAL	WR-102	J. G. Hyatt	R. L. Buehler	3/11	R. Buehler	1/4		3/11/82	R. Buehler
6 ELECTRICAL	WR-201	J. G. Hyatt	R. L. Buehler	3/11	R. Buehler	1/4		3/11/82	R. Buehler
7 CADWELDS	WR-1	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3-11-82	R. Buehler
8 BOP WELDING				3-11	R. Buehler	1/4		3-11-82	R. Buehler
9 JOGE/SEISMIC WELDING									
10 CLEAN-UP	WR-25	J. G. Hyatt	R. L. Buehler	3-11	R. Buehler	1/4		3/11/82	R. Buehler
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT) J. G. Hyatt TIME: 2:15 DATE: 3-11-82 G.C. SIGNOFF: Russell J. Buehler TIME: 3:30 PM DATE: 3-11-82

DESIGN APPROVAL: David By DATE: 3-11-82 TIME OF START: 09:45 AM DATE PLACED: 03-12-82

YDS. CONCRETE DELIVERED	<u>1344</u>	YDS PLACED IN THIS PLACEMENT	<u>349</u>	YARDS WASTED	CONCRETE	<u>0</u>
YARDS GROUT DELIVERED	<u>05</u>	CONCRETE	<u>344</u>	YARDS PLACED ELSEWHERE	CONCRETE	<u>0</u>
		GROUT	<u>5</u>		GROUT	<u>0</u>

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: Russell J. Buehler TITLE: C.I. DATE: 3-12-82

REMARKS (ATTACH RELEVANT REPORTS)
1. Use of 2" dia. pipe for 2" dia. rebar. Pending approval of FDR-C-2088-App. RLB 3-12-82.
2. Natchez prior to placement on 3/11/82.

1-CB-1CBXW386001

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. ICRXW386001

LOCATION Cont. #1 Ext. Wall

Az. 90°± to 190°± ; 270°± to 360°±, el. 376'7 to 395'9

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat.	
Rate of Placement	*Sat.	
Hot Weather Conditions	N/A	
Cold Weather Conditions	Sat.	
Layer Thickness	Sat.	
Use of Placing Equipment	Sat.	
Consolidation	Sat.	
Embedded Items	Sat.	
Forms	Sat.	
Cleanup Maintained	**Sat.	
Mixing To Placing Intervals	Sat.	
Shifted/Removed Rebar Replaced	N/A	
COMMENTS * Rate of rise dependent upon temperature, checked @ placement with		
CPD-4918B. 2'/hr for first 6'; 1'/hr. for last 3'		
** Some water came into placement from vertical bulkheads still in		
cure. It was removed by vacuuming.		
A smooth and satisfactory placement.		

CONSTRUCTION INSPECTOR Russell P. Brecklow DATE 3-16-82

CONSTRUCTION INSPECTION SUPERVISOR Herbert A. Taylor DATE 3-16-82

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

Placement Number 1CBXW386001

Coordinates Az. 90°± to 180°± ; Az. 270°± to 360°±

Elevation 376'7" to 385'9"

C.I. Review R. Breedlove ^{F.E.}

Area Engineer Review David Rye

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-G-0630(R7)
-0640(R5)

PW-C-2891(R1) (Form cleanliness requirements)
FCR-C-2864(R1) (Eliminates horiz. C.S. @ el. 291')
FCR-C-2843 (Spacing, 7th & 8th Row 0° to 180°)
FCR-C-2902 (Relocates horiz. C.S. @ el. 376'7")

Reinforcing CAR-2167-G-0640(R5)
-0660(R4)
-0661(R4)
-0636(R4)
-0637(R4)
-0641(R4)
-0650(R4)
-0638(R5)
-0639(R5)

PW-C-2483 (Projections of dowels above 362')
FCR-C-716 (Tolerance on liner dimensions)
RCI-C-672 (Rate of Rise above el. 376')
RCI-C-630 (Dome cadweld locations)
FCR-C-2974 (Vertical Construction Joints)
PW-C-2461 (Blockouts for strain gauges)
FCR-C-2937 (Lapping of Shear Bars)
PW-C-2069 (Polishing rebar for strain gauges)
FCR-C-3036 (Eliminates 3" Key)
PW-C-3038 (Excessive Cover)

Embeds CAR-2168-G-225(R5)

Penetrations CAR-2168-G-0601(R8)

BETHLEHEM STEEL CORP. (REINFORCING)
8099-52(R2); -53(R2); -54(R2); -55(R3); 54(R2); -57(R2)

Dowels

Document Control Contacted
Daily Document Log Checked
Computer Printout Reviewed

Bar Bending CAR-2167-B-9005-4,10,6,8

Other LINER CAR-2168-G-253505(R3)

Ronald V. Breedlove 3-11-82

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 4 of 9

PLACEMENT NO./LOCATION 1 CBXW 386001
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0640(R5); -0660(R7); -0661(R4)

INSPECTOR Russell J. Buellone DATE 3-3-82
FIELD ENGINEER Mike Blodgett DATE 3/4/82
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
246/246	0	0	0	0	0	0
INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CJ-261	OF 246 62	62	Row 1 I.F. 90° to 180°	Incorrect Projections \$	D. Bryan PW-C-2483	D. Bryan
CJ-262	OF 246 61	61	↓	RIB 3-11-82 Incorrect Spacing	↓	↓
CJ-261	OF 246 61	61	Row 1 I.F. 270° to 360°	Incorrect Projections	D. Bryan PW-C-2483	D. Bryan
CJ-262	OF 246 62	62	↓	↓	↓	↓
CJ-266	OF 224 57	57	1st Layer O.F. 90° to 180°	Incorrect Projections \$	D. Bryan PW-C-2483	D. Bryan
CJ-296	OF 22 7	7	↓	Incorrect Spacing	D. Bryan PW-C-2843	↓
CJ-267	OF 224 56	56	↓	↓	↓	↓
CJ-295	OF 22 3	3	↓	↓	↓	↓
CJ-266	OF 224 56	56	1st Layer O.F. 270° to 360°	Incorrect Projections \$	D. Bryan PW-C-2483	D. Bryan
CJ-296	OF 22 8	8	↓	Incorrect Spacing	D. Bryan FCR-C-2843	↓
CJ-267	OF 224 56	56	↓	↓	↓	↓
CJ-295	OF 22 3	3	↓	↓	↓	↓

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 5 of 9

PLACEMENT NO./LOCATION CBXW386001
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0640(LS); -0660(RH); -0661(RH)

INSPECTOR Russell J. Brecklowe DATE 3-3-82
FIELD ENGINEER W. J. Johnson DATE 3/4/82
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
123	36	18 124	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CJ-271	OF 123 30	30	2 nd Layer O.F. 90° to 180°	None	None	N/A
CJ-297	OF 123 31	31	↓	↓	↓	↓
CJ-271	OF 123 31	31	2 nd Layer O.F. 270° to 360°	None	None	N/A
CJ-297	OF 123 31	31	↓	↓	↓	↓
CJ-1	OF 7 sets 6 sets	6 sets	1 st Layer I.F. Horiz 90° to 180°; 270° to 360°	1 set embedded in previous placement	<i>D. Bryan</i> FCR-C-2902	D. Bryan
CJ-2	OF 12 sets 12	12 sets	↓	↓	↓	↓
CJ-7	OF sets 2LB 3-11-82					
CJ-127	OF 19 sets 18 sets	18 (sets)	O.F. Horizontals 90° to 180°; 270° to 360°	1 set embedded in previous placement	<i>D. Bryan</i> FCR-C-2902	D. Bryan
CD-6	OF 19 sets 18 sets	18 sets	Parapet Horizontals 90° to 180°; 270° to 360°	1 set embedded in previous placement	<i>D. Bryan</i> FCR-C-2902	D. Bryan
CD-2	OF 492 124	124	Parapet Verticals 90° to 180°	None	None	N/A

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
REINFORCING STEEL

Sh. 6 of 9

PLACEMENT NO./LOCATION 1CBXLW386001
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0640(R5); -0660(R4); -0661(R4)

INSPECTOR Russell J. Breedlove DATE 3-3-82
FIELD ENGINEER [Signature] DATE ~~3/3/82~~ 3/4/82
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
0	0	2	218	123	0	4428	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
CD-2	OP 492 122	123	Parapet Verticals 270° to 360°	1 extra bar	OK [Signature] None	D. Bryan
CD-4	4x 1 set	4x1 set	Slab Horiz. O.F. 90° to 180°; 270° to 360°	None	None	N/A
CD-5	4x 1 set	4x1 set	Slab Horiz. I.F. 90° to 180°; 270° to 360°	None	None	N/A
CJ-290	OP 6x492 1476	1476	Shear Bars	Bars lap spliced at Const. Joints	[Signature] FCR-C-2937	D. Bryan
CJ-291	OP 12x492 2952	2952	Shear Bars	Bars lap spliced at Const. Joints	[Signature] FCR-C-2937	D. Bryan
CD-1	OP 435 218	239	Curb Dials	21 extra bars	OK [Signature] None	D. Bryan

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

PLACEMENT NO. 1 CBXW386001 PAGE 9 OF 9
DRAWING & REV. CR-2168-G-223(R5); -0601(R5)

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (1 OR LL, 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	♀ Az. 1350	4 φ	None	None	R. Bredlow
	♀ Az. 305045'	Storm Drains R = 68'0			N/A
					3-11-82
ANCHOR BOLTS	1) ♀ el. 379'0 ³ / ₈ ♀ Az. ± 11" from 1'4 ¹ / ₂ E of Az. H70	1) 2-3/4 Conc. Inserts Richmond Type EC-2W	None	None	R. Bredlow
	2) ♀ el. 385'8 ³ / ₈ ♀ Az. ± 11" from 1'4 ¹ / ₂ E of Az. H70	2) 2-3/4 Conc. Inserts Richmond Type EC-2W			N/A
					3-11-82
OTHER					R. Bredlow
		Temperature Gauges installed as per CH-22			D. Bryan
					3-11-82

PLACEMENT NO. 1CBXW386001 LOCATION Cont. #1 Ext. Wall
 PLACED 3-12-82 SURFACE AREA N/A
 END OF CURE 3-19-82 CURE COMPOUND (AMOUNT) N/A
 CURE/PROTECTION REQUIREMENTS Severe exposure / Extended protection / 7 days moisture

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	✓ Forms not removed 3-26-82	RLB
REPAIRS		
Concrete Repairs Required	✓ Forms not removed 3-26-82	RLB
EMBED PLATES W/SCREW-IN-STUDS		
Thread Engagement	N/A	RLB
SEISMIC GAP		
Proper Gap Maintained	N/A	RLB
CURING/PROTECTION		
	EXTENSIONS	REMARKS
A. Water	✓ N/A	Sat
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.

COMMENTS: * Roughened surface and/or exposed aggregate

CONSTRUCTION INSPECTOR Russell J. Breedlove DATE 3-26-82

CONSTRUCTION INSPECTION SUPERVISOR Herbert Taylor Jr. DATE 3-26-82

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

PLACEMENT NO. 1CBXW386001 DATE 3-12-82 MODE OF PLACEMENT Pump Discharge

LOCATION Containment #1

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 BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
											RESULTS						
											DAY 7	DAY 28	DAY 28	DAY			
80852	10:10 AM	8	5 1/4	77	CP#L 4939B	7.8	CP#L 4767B	139.6	CP#L 4767B	CP#L 0453D	3870	5060	5200	1	8502		
80861	10:50 AM	56	6 1/4	82	CP#L 4939B	6.3	CP#L 4767B										
80870	11:35 AM	104	4 3/4	81	CP#L 4939B	5.8	CP#L 4767B	143.5	CP#L 4767B	CP#L 0453D	3890	4950	5150	2	8503		
80880	12:00 PM	152	5 3/4	82	CP#L 4939B	5.2	CP#L 4767B										
80889	12:55 PM	200	7 3/4	82	CP#L 4939B	5.8	CP#L 4767B										
80910	1:40 PM	248	6	82	CP#L 4939B	5.8	CP#L 4767B	140.6	CP#L 4767B	CP#L 0453D	3930	5270	5130	3	8504		
80936	2:35 PM	296	6 1/4	79	CP#L 4939B	6.0	CP#L 4767B										
80946	3:00 PM	312	6 1/2	79	CP#L 4939B	5.6	CP#L 4767B	140.2	CP#L 4767B	CP#L 0453D	3450	4490	4560	4	8505		
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																

FOR INFORMATION ONLY

SLUMP REQUIRED 0-5 max in. DESIGN MIX # USED M-81
AIR REQUIRED 4-8 % DESIGN STRENGTH 4500 PSI
FOR PLACEMENT J.W.R. 3-12-82

FIELD QA/QC INSPECTOR Kathy Smith DATE 3-12-82
LAB QA/QC INSPECTOR Donald Puccio DATE 4-9-82
QA/QC SPECIALIST Eugene Kelly DATE 4-13-82

12/81
**CONCRETE
PLACEMENT
REPORT**

000570

SHNPP

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 <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	STEEL TROWEL <input checked="" type="checkbox"/>	FORMS ALONE <input type="checkbox"/>	WET BURLAP <input type="checkbox"/>
BUCKET <input type="checkbox"/>	TREMIE <input type="checkbox"/>	FORM <input checked="" type="checkbox"/>	WOOD FLOAT <input type="checkbox"/>	TARPS <input checked="" type="checkbox"/>	POLYETHYLENE <input type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>	<input type="checkbox"/>	HAIR BRUSH <input type="checkbox"/>	INSULATION <input type="checkbox"/>	CURING COMPOUND <input type="checkbox"/>
PUMP <input checked="" type="checkbox"/>	IF BEST METHOD EQUAL TO 5' <input type="checkbox"/>	<input type="checkbox"/>	BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	KUREZ <input checked="" type="checkbox"/>
TRUCK <input type="checkbox"/>	SERVICE COND. <u>3500 PSI</u>	<input type="checkbox"/>	RUBBER FLOAT <input type="checkbox"/>	<input type="checkbox"/>	NUTEC 10 <input type="checkbox"/>
	PROTECTION <u>EXTENDED</u>		EXP. AGE FOR <u>1</u>		QUAD CURE <u>1135</u>
	CURE (DAYS) <u>7</u>		ROUGH SURFACE ON C.T.		GALLONS REQUIRED <u>4</u>

ANTICIPATED WEATHER CONDITIONS: NORMAL

COMMENT & CLARIFICATION TO PROPOSED METHODS

EXT. WALL FROM A 20° TO 90° & 180° TO 270°
FROM ELEV. 391 TO 396 (USE M-12 AND GROUT)

PRIMARY MASONRY DWG. NO.

RATE OF RISE

CM-21676-0640 L-5

2" / 11"

DES. STRENGTH
40KSI

DESIGN MIX CODE
M-1011

NAME/TITLE PERSON SUBMITTING ALL THE ABOVE

BY: David B. Ryan TITLE: Asst. Supt. DATE: 3/26/82

PRE-PLACEMENT CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY ASSURANCE

NO.	DESCRIPTION	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	QUALITY ASSURANCE	
								Q.C. SIGNOFF	DATE
1	CONTACT SURFACES	WP-05	J. E. Hyatt	M. Walters	4-2	R. Breedlove	M/B	4/1/82	M. Walters
2	FORMS	WP-22	J. E. Hyatt	M. Walters	4-5	R. Breedlove	M/B	4/1/82	M. Walters
3	REINFORCING STEEL	WP-11	J. E. Hyatt	M. Walters	4-5	R. Breedlove	M/B	4/1/82	M. Walters
4	EMBEDS	—	J. E. Hyatt	M. Walters	4-2	R. Breedlove	M/B	4/1/82	M. Walters
5	MECHANICAL	EMBEDS	WP-104	J. E. Hyatt	4-5	R. Breedlove	M/B	4/1/82	M. Walters
		PIPE	WP-102	J. E. Hyatt	4-5	R. Breedlove	M/B	4/1/82	M. Walters
6	ELECTRICAL	WP-201	J. E. Hyatt	M. Walters	4-5	R. Breedlove	M/B	4/1/82	M. Walters
7	CADWELDS	WP-31	J. E. Hyatt	M. Walters	4-2	R. Breedlove	M/B	4-6-82	M. Walters
8	BOP WELDING	—	J. E. Hyatt	M. Walters	4-6	R. Breedlove	M/B	4-6-82	M. Walters
9	CODE/SEISMIC WELDING	—	J. E. Hyatt	M. Walters	4-5	R. Breedlove	M/B	4-6-82	M. Walters
10	CLEAN-UP	WP-05	J. E. Hyatt	M. Walters	4-2	R. Breedlove	M/B	4/1/82	M. Walters
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT)

TIME: 9:30

CL SIGNOFF

TIME: 11:09

DATE: 4-6-82

DATE: 4-15-82

DATE: 4-15-82

DESIGN APPROVAL

TIME OF START

DATE PLACED

DATE: 4-6-82

11:30

04-15-82

YDS. CONCRETE DELIVERED

1112

YDS PLACED IN THIS PLACEMENT

113

YARDS WASTED

CONCRETE 6

YARDS GROUT DELIVERED

M-10 15

CONCRETE

106

YARDS PLACED ELSEWHERE

GROUT 2

CONCRETE 0

NAME: Russell S. Breedlove

TITLE: C.I.

DATE: 4-15-82

REMARKS (ATTACH RELEVANT REPORTS)

* M-10 GROUT TO BE SPREAD ON EXT. SURFACES IN ACCORDANCE TO FCR-C-301
 * upon work class. review for checks done on 0° to 90° - 11 #12's; 180° to 270° - 14 #12's
 * Recheck prior to placement OK 4/15/82 - Respanded & Sat - PLB 4-15-82
 * recheck prior to placement OK 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

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW396002

LOCATION Cont. #1 Ext. Well

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" ^{long} 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 CBXW396002

Coordinates 0° to 90° & 180° to 270°

Elevation 391' to 396'

C.I. Review R. Buccellone Michael J. Buccellone Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

✓ Masonry	<u>CAR-2167-G-0630(R7)</u>	<u>FCR-C-2843 (Spacing, 7th & 8th Row 0° to 180°)</u>
	<u>-0640(R8)</u>	<u>PW-C-2483 (Projection of Dowels above el. 362')</u>
	<u>0631(R7)</u> <u>RLB 4-5-82</u>	<u>FCR-C-3061 (Cover & Placing method)</u>
		<u>FCR-C-3059 (Vertical Construction Joints)</u>
✓ Reinforcing	<u>CAR-2167-G-0660(R4)</u>	<u>FCR-C-3067 (Preparation of Construction Joint)</u>
	<u>-0661(R4)</u>	
	<u>0662(R4)</u> <u>H.L.T. 4-16-82</u>	
	<u>0640(R5)</u> <u>RLB 4-5-82</u>	
Embeds		
Penetrations		
Dowels		<u>Computer Printout Checked</u>
		<u>Daily Document Log Reviewed</u>
		<u>Document Control Contacted</u>
		<u>Russell J. Buccellone 4-7-82</u>
✓ Bar Bending	<u>CAR-2167-B-9005-10</u>	
Other Liner	<u>CAR-2167-G-253505(B3)</u>	
	<u>-228(R11)</u>	

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Exhibit 13
TP-22
Pg. 4 of 6

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXW396002
DRAWING NUMBER
BAR BENDING SCHEDULE NO. CAR-2167-G-0640(R3); -0660(R4); -0661(R4)

INSPECTOR Russell J. Buehler DATE 3/31/82
FIELD ENGINEER Mike Blodson DATE 4/1/82
DESIGN QUANTITIES PER SHEET 1

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
246 246	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 *	<i>D. Bryan</i> PW-C-2483 FCR	D. Bryan
CJ-262	62	62	↓	Incorrect Spacing R-13 4-2-82	FCR-C-2483	↓
CJ-261	61	61	Row 1 I.F. Verticals 180° to 270°	Incorrect Projections	<i>D. Bryan</i> PW-C-2483 FCR	D. Bryan
CJ-262	61	61	↓	↓	↓	↓
CJ-266	56	56	Row 1 D.F. Verticals 0° to 90°	Incorrect Projections *	<i>D. Bryan</i> PW-C-2483	D. Bryan
CJ-267	57	57	↓	Incorrect Spacing	<i>D. Bryan</i> FCR-C-2483	↓
CJ-296	3	3	↓	↓	↓	↓
CJ-295	8	8	↓	↓	↓	↓
CJ-266	55	55	Row 1 D.F. Verticals 180° to 270°	Incorrect Projections	<i>D. Bryan</i> PW-C-2483	D. Bryan
CJ-267	55	55	↓	↓	↓	↓
CJ-296	4	4	↓	↓	↓	↓
CJ-295	8	8	↓	↓	↓	↓

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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 3-21-92
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

SPECTED 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)				

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

2165-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 4-5-82
C.I. Supervisor [Signature] Date 4-6-82

1-CBXW-396-002 RW 4/15/82

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>		
	EXTENSIONS	REMARKS
A. Water	N/A	Sat-Moist 7 days
B. Curing Compound	N/A	Sat-Kurez 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. Brecklone DATE 4-26-82

CONSTRUCTION INSPECTION SUPERVISOR W. D. Taylor DATE 4-26-82

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

PLACEMENT NO. 1CBXW396022 DATE 4-15-82 MODE OF PLACEMENT Pump

LOCATION # 1 Cont

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
											DAY	DAY	DAY	DAY			
82545	1 AM	9	4	75	CPHL 4997B	5.5	CPHL 4310	142.3	CPHL 4310	01897	7	28	28	1	8663		
	12:25 PM										3680	5340	5220				
82558	1 AM	56	3	77	CPHL 4997B	5.0	CPHL 4310	142.3	CPHL 4310	01897	7	28	28	2	8664		
	1:23 PM										3400	4930	5020				
82574	3:15 PM	104	5	79	CPHL 4997B	4.6	CPHL 4310										
	1 AM																
	1 PM																
	1 AM																
	1 PM																
	1 AM																
	1 PM																
	1 AM																
	1 PM																
	1 AM																
	1 PM																

SLUMP REQUIRED 0-8 MAY in. DESIGN MIX # USED M-81 FIELD QA/QC INSPECTOR Ricky Strubbed DATE 4-15-82
 AIR REQUIRED 4-8 z DESIGN STRENGTH FOR PLACEMENT 4000 PSI LAB QA/QC INSPECTOR Donald Pinner DATE 5-13-82
 QA/QC SPECIALIST Robert Hall DATE 5-14-82

CONCRETE
PLACEMENT
REPORT

SHNPP

Sh. 30/8

FILE

PLACEMENT NUMBER

16BXW425001

LOCATION (INCLUDE ELEV. IF IN BLDG.)

CONTAINMENT #1 FL 425

SCHEDULED DATE:

10-5-82

TYPE PLACEMENT

EAT. DOME

ESTIMATED QUANTITY

105 C.Y.

TEMP LIMIT

50°-90°F

SLUMP LIMIT

9"

SEISMIC CLASS I YES NO

YES

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES)

CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF	UNFORMED SURF
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	INTERNAL <input type="checkbox"/>	STEEL TROWEL <input checked="" type="checkbox"/>	FORMS ALONE <input type="checkbox"/>	WATER ON 2ND C.S. <input checked="" type="checkbox"/>
BUCKET <input type="checkbox"/>	TREMIE <input type="checkbox"/>	FORM <input checked="" type="checkbox"/>	WOOD FLOAT <input type="checkbox"/>	TARPS <input checked="" type="checkbox"/>	WET BURLAP <input type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>		HAIR BRUSH <input type="checkbox"/>	INSULATION <input type="checkbox"/>	POLYETHYLENE <input type="checkbox"/>
PUMP <input checked="" type="checkbox"/>			BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	CURING COMPOUND: <input type="checkbox"/>
TRUCK <input type="checkbox"/>			RUBBER FLOAT <input type="checkbox"/>	N/A (WRC M30) <input checked="" type="checkbox"/>	KUREZ UCRT. FAC <input checked="" type="checkbox"/>
			EXP. N66 50A 200# <input checked="" type="checkbox"/>	ADARNE CO. 2500 <input checked="" type="checkbox"/>	NUTEC 10 <input type="checkbox"/>
					QUAD CURE <input type="checkbox"/>
					GALLONS REQUIRED 4 <input checked="" type="checkbox"/>

ANTICIPATED WEATHER CONDITIONS:

normal

PROTECTION EXTENDED

CURE (DAYS) 7

COMMENT & CLARIFICATION TO PROPOSED METHODS

FL 421-425; A2 90°-180° & 270°-360°

PRIMARY MASONRY DWG. NO.

2167-G-0640 R-5

RATE OF RISE

2'/hr

M-10 MORTAR PLACED ON FACE.

DES. STRENGTH

4.0KSI

DESIGN MIX CODE

M-8/1*

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY: [Signature] TITLE: P.E. DATE: 10/24/82

PRE-PLACEMENT CHECKOUT

CONSTRUCTOR

CONST. INSPECTION

QUALITY ASSURANCE

1	CONTACT SURFACES	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	Q.C. SIGNOFF	
								DATE	QA. SIGNOFF
2	FORMS	WP-22	R. Spears	[Signature]	10-6	R. Breedlove	[Signature]	9-27-82	X. K... [Signature]
3	REINFORCING STEEL	WP-11	T. [Signature]	[Signature]	10-6	R. Breedlove	[Signature]	9-27-82	X. K... [Signature]
4	EMBEDS		R. Spears	[Signature]	10-6	R. Breedlove	[Signature]	9-27-82	X. K... [Signature]
5	MECHANICAL	EMBEDS	[Signature]	[Signature]	10-6	[Signature]	[Signature]	9-27-82	X. K... [Signature]
		PIPE	WP-102	J. Smith	[Signature]	10-6	[Signature]	[Signature]	9-27-82
6	ELECTRICAL	WP-201	[Signature]	[Signature]	10-12	J.A. Guzman	[Signature]		
7	CADWELDS	WP-01	[Signature]	[Signature]	10-15	R. Breedlove	W/A M. [Signature]	10-5-82	
8	BOP WELDING				10-15	R. Breedlove	[Signature]		
9	CODE/SEISMIC WELDING								
10	CLEAN-UP	WP-05	R. Spears	[Signature]	10-6	R. Breedlove	[Signature]	9-27-82	X. K... [Signature]
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT) TIME: 10 AM DATE: 10-6-82

C.I. SIGNOFF TIME: 10:45 AM DATE: 10-6-82

DESIGN APPROVAL DATE: 10/3/82

TIME OF START 12:00 NOON DATE PLACED 10-06-82

YDS. CONCRETE DELIVERED

112

YDS PLACED IN THIS PLACEMENT 120

CONCRETE 3

YARDS GROUT DELIVERED

119

YARDS PLACED ELSEWHERE

CONCRETE 0

CONCRETE		3
GROUT	M-12	1
CONCRETE		0
GROUT		0

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION

NAME: Russell J. Breedlove TITLE: C.I. DATE: 10-6-82

REMARKS (ATTACH RELEVANT REPORTS)
CONCRETE TO BE PLACED CONTINUOUSLY & SYMMETRICALLY PER 2167-G-0640
* Temporarily release rebar for concrete. Rebar, tagged in blue - Respond to it.
* Recheck prior to placement at 10/6/82 SAT. R.B. 10-6-82

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

Exhibit 1
TP-15
P. 7 of 8

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBXW425001

LOCATION Cent. #1 Ext. Wall

Az. 90° to 180°, el. 421' to 425' (I.F.)

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	Sat.	RLB
Forms	Sat.	RLB
Cleanup Maintained	Sat.	RLB
Mixing To Placing Intervals	Sat.	RLB
Shifted/Removed Rebar Replaced	Sat.	RLB
COMMENTS <u>A very smooth and satisfactory placement</u>		

CONSTRUCTION INSPECTOR Russell J. Buccione DATE 10-6-82

CONSTRUCTION INSPECTION SUPERVISOR Herbert L. Taylor DATE 10-7-82

FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGS

Placement Number CBXL 423001

Coordinates Az. 90° to 180° & 270° to 360°

Elevation 421' to 426' (i.p.)

C.I. Review Daniel J. Buechler
Michael Johnson

Computer Printout Reviewed 10-5-82

Daily Document Log Checked 10-5-82

Document Control Contacted 10-6-82

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-G-0630(R8)
-0640(R5)

FCR-C-2483 (Projection of dwls. above 362')

FCR-C-3061 (Cover & Placement Methods)

FCR-C-3059 (Vertical Const. Joints)

FCR-C-3067 (Preparation of Const. Joint)

Reinforcing CAR-2167-G-0660(R4)
-0661(R4)

RCI-C-765 (Bulkhead @ top)

Embeds CAR-2168-G-225(R4)

Penetrations CAR-2168-G-2330(R3)
&
LINER PLATE -228(R11)
-2167-G-0662(R5)

Dowels

Bar Bending CAR-2167-B-9005-10

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXW425001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0660(R4); -0661(R4)

INSPECTOR Russell J. Breedlove DATE 9-20-82
FIELD ENGINEER Michael J. Blodgett DATE 9/23/82
DESIGN QUANTITIES PER SHEET

Verticals Layer 1, I.F., O.F.	HORIZONTALS I.F., O.F.	Verticals Layer 2, O.F.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
125/125	0	0	0	0	1250	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			Layer 1 I.F. Verticals 90° to 180°			
CJ-260 ✓	16	16		1A	None	None N/A
CJ-260 ✓	16 15 <small>R/S 9-23-82</small>	15		1B		
CJ-264 ✓	62	62		2		
CJ-138 ✓	30 31 <small>R/S 9-23-82</small>	31		3		
CJ-135 ✓	1	1		3		
			Layer 1 I.F. Verticals 270° to 360°			
CJ-260 ✓	16	16		1A	None	None N/A
CJ-260 ✓	16 15 <small>R/S 9-23-82</small>	15		1B		
CJ-264 ✓	62	62		2		
CJ-138 ✓	32	32		3		
			Add'l Verts @ Pen. R=66'0 1/2			
CJ-299 ✓	2 0 <small>R/S 9-23-82</small>	0	90° to 180°		In next placement	N/A N/A
CJ-289	625 563 <small>R/S 9-23-82</small>	625	Shear Bars 90° to 180°		None	None N/A
CJ-289	625 563 <small>R/S 9-23-82</small>	625	270° to 360°			

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO./LOCATION LCBXW425001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0660(R4);-0661(R4)

INSPECTOR Russell J. Breedlove DATE 9-21-82
FIELD ENGINEER Mike B. [unclear] DATE 9/23/82
DESIGN QUANTITIES PER SHEET

Verticals Layer 1, I.F., O.F.	HORIZONTALS I.F., O.F.	Verticals Layer 2, O.F.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
125/125	0	0	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			Layer 1 O.F. Verticals 90° to 180°			
CJ-265 ✓	16	16		1A None	None	N/A
CJ-265 ✓	15 15 <small>2.8-2.85-82</small>	15		1B		
CJ-269 ✓	62	62		2		
CJ-139 ✓	32	32		3		
			Layer 1 O.F. Verticals 270° to 360° <small>9-21-82</small>			
CJ-265 ✓	16 15 <small>2.8-2.85-82</small>	16		1A None	None	N/A
CJ-265 ✓	15 15 <small>9-23-82</small>	15		1B		
CJ-269 ✓	63	63		2		
CJ-139 ✓	31	31		3		
			Add'l Verts @ Pens. R=66'5 3/4"			
CJ-300 ✓	20 20 <small>2.8-10-9-82</small>	0	90° to 180°	In next placement	N/A	N/A

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXW425001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0660(R4); -0660(R4)

INSPECTOR Russell J. Breedlove DATE 9-21-82
FIELD ENGINEER Mike Johnson DATE 9/23/82
DESIGN QUANTITIES PER SHEET

Verticals Layer 1, I.F., O.F.	HORIZONTALS I.F., O.F.	Verticals Layer 2, O.F.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
0	10	63	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			1, F. Horizontals 90° to 180° & 270° to 360°			
CJ-65	✓ 1 (set)	1 (set)		None	None	N/A
CJ-66	✓ 1 (set)	1 (set)				
CJ-67	✓ 1 (set)	1 (set)				
CJ-68	✓ 1 (set)	1 (set)				
CJ-69	✓ 1 (set)	1 (set)				
CJ-70	✓ 1 (set)	1 (set)				
CJ-71	✓ 1 (set)	1 (set)				
CJ-72	✓ 1 (set)	1 (set)				
CJ-73	✓ 1 (set)	1 (set)	✓	✓	✓	✓
CJ-74	1 (set)	1 (set)	✓	✓	✓	✓
CJ-270	✓ 32	32	2nd Layer D.F. Verts. 90° to 180°	None	None	N/A
CJ-137	✓ 30	30	✓	✓	✓	✓
CJ-140	✓ 1	1	✓	✓	✓	✓

FIELD INSPECTION REPORT FC
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO./LOCATION 1 CBXW 425001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0660(R4); -0661(R4)

INSPECTOR Russell J. Brecklowe DATE 9-21-82
FIELD ENGINEER Mike Blaker DATE 9/23/82

DESIGN QUANTITIES PER SHEET

Verticals Layer 1, I.F., O.F.	HORIZONTALS I.F., O.F.	Verticals Layer 2, O.F.	DIAGONALS ROWS 5,6	ADD PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
0	11	62	0	0	0	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			O.F. Verts to 213 9-21-82 Horizontals 90° to 180° & 270° to 360°			
CJ-198 ✓	1(set)	1(set)		None	None	N/A
CJ-199 ✓	1(set)	1(set)				
CJ-200 ✓	1(set)	1(set)				
CJ-201 ✓	1(set)	1(set)				
CJ-202 ✓	1(set)	1(set)				
CJ-203 ✓	1(set)	1(set)				
CJ-204 ✓	1(set)	1(set)				
CJ-205 ✓	1(set)	1(set)				
CJ-206 ✓	1(set)	1(set)				
CJ-207 ✓	1(set)	1(set)		↓	↓	↓
CJ-208	1(set)	1(set)		↓	↓	↓
CJ-270 ✓	31	31	2nd Layer O.F. Verts. 270° to 360°	None	None	N/A
CJ-140 ✓	31	31		↓	↓	↓

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

PLACEMENT NO. 1CBXLW425001
DRAWING & REV. CAR-2168-G-225 (R5)

PAGE 2 OF 3

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (1 OR LL, 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					
ANCHOR BOLTS					
OTHER	4 Az. 6" to either side of 145°	(4) 3/4" Concrete Inserts - Richmond type EC-2W	None	None	<i>L. Bredt</i> N/A 10-6-82

PLACEMENT NO. ICBxW425001
 PLACED 10-6-82
 END OF CURE 10-13-82
 CURE/PROTECTION REQUIREMENTS Severe exposure / Extended Protection / 7 day moist cure

LOCATION Cont. #1 Ext. Wall
 SURFACE AREA 1000 ft² ±
 CURE COMPOUND (AMOUNT) 4 1/2 gal.

CHKLIST	REMARKS	INITIALS
<u>FINISH</u>		
A. Steel Trowel	N/A	RUB
B. Wood Float	✓ Sat.	RUB
C. Broom	N/A	RUB
D. Hair Brush	N/A	RUB
E. Rubber Float	N/A	RUB
F. Keyways Installed	Sat.	RUB

FORMS

Form & Shoring Removal	N/A	RUB
------------------------	-----	-----

REPAIRS

Type of Repair Required	<input checked="" type="checkbox"/> Cosmetic <input type="checkbox"/> Structural <input type="checkbox"/> Forms Still In Place	RUB
-------------------------	--	-----

EMBED PLATES W/SCREW-IN-STUDS

Thread Engagement	N/A	RUB
-------------------	-----	-----

SEISMIC GAP

Proper Gap Maintained	N/A	RUB
-----------------------	-----	-----

CURING/PROTECTION

	EXTENSIONS	REMARKS	
A. Water	^{RUB 10-16-82} N/A	Sat - 7 days moist	RUB
B. Curing Compound	N/A	Sat - Kurez vented	RUB
C. Ponding	N/A	N/A	RUB
D. Burlap	N/A	N/A	RUB
E. Wet Sand	N/A	N/A	RUB
F. Polyethylene	N/A	N/A	RUB
G. Temperature	N/A	Sat - 7 days ≥ 50°F	RUB

COMMENTS:

CONSTRUCTION INSPECTOR Russell F. Bruckner DATE 10-18-82

CONSTRUCTION INSPECTION SUPERVISOR Robert D. Taylor DATE 10-18-82

A-24
 1/81
 rev. 0

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

PLACEMENT NO. ICBXW425001 DATE 10-6-82 MODE OF PLACEMENT Pump

LOCATION #1 Containment Bldg

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. BUCKET	SCALE NO.	TEST CYLINDERS				SET NO.	LAB #	REMARKS
										RESULTS						
										DAY 7	DAY 28	DAY 28	DAY			
90762	1:12 AM	8	7 1/4	81	CP+L 50908	7.8	CP+L 47678	1385	CP+L 47678	CP+L 50898	2870	4320	4140	1	9645	
90771	1:25 AM	56	7	79	CP+L 50908	4.8	CP+L 47678									
90778	2:45 AM	104	7 1/4	82	CP+L 50908	4.6	CP+L 47678	141.8	CP+L 47678	CP+L 50898	3150	4850	4950	2	9646	
	3:00 AM															
	3:15 AM															
	3:30 AM															
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	11:30 AM															
	11:45 AM															
	12:00 PM															

SLUMP REQUIRED 0-7+1 in. DESIGN MIX # USED M-81 FIELD QA/QC INSPECTOR [Signature] DATE 10-6-82
 AIR REQUIRED 4-8 % DESIGN STRENGTH FOR PLACEMENT 4000 PSE LAB QA/QC INSPECTOR [Signature] DATE 11-3-82
 QA/QC SPECIALIST [Signature] DATE 11-4-82

228
229

000572

CP&L
SHNPP

ATTACHMENT 12

Exhibit 1
WP-05

FILE

PLACEMENT NUMBER 1CB1W4440101

LOCATION (INCLUDE ELEV. IF IN BLDG.)
CONTAINMENT #1 EL 444

SCHEDULED DATE:
12/21/82

TYPE PLACEMENT
DOME

ESTIMATED QUANTITY
12 C.Y.

TEMP LIMIT 50°-90°
SLUMP LIMIT 7" #

SEISMIC CLASS I YES NO
 YES NO

PROPOSED PLACEMENT METHODS: (CHECK APPLICABLE SPACES) * SEE FCR-3794 CURING

TRANSPORTING	PLACING	VIBRATION	FINISHING	FORMED SURF.	UNFORMED SURF.
BUGGY <input type="checkbox"/>	CHUTE <input type="checkbox"/>	<input checked="" type="checkbox"/> INTERNAL	<input checked="" type="checkbox"/> STEEL TROWEL	FORMS ALONE <input type="checkbox"/>	WATER <input checked="" type="checkbox"/>
BUCKET <input type="checkbox"/>	<input checked="" type="checkbox"/> TREMIE	<input type="checkbox"/> FORM	<input checked="" type="checkbox"/> WOOD FLOAT	TARPS <input type="checkbox"/>	WET BURLAP <input type="checkbox"/>
CONVEYOR <input type="checkbox"/>	DROP <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> HAIR BRUSH	INSULATION <input type="checkbox"/>	POLYETHYLENE <input type="checkbox"/>
PUMP <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BROOM FINISH <input type="checkbox"/>	FORMS & WATER <input type="checkbox"/>	CURING COMPOUND: <input type="checkbox"/>
TRUCK <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RUBBER FLOAT <input type="checkbox"/>	<u>N/A</u> <input checked="" type="checkbox"/> NUTEC 10	KUREZ <input type="checkbox"/>
			EXP. M.L.S. <u>1/2" #</u>	QUAD CURE <input type="checkbox"/>	GALLONS REQUIRED <input type="checkbox"/>

ANTICIPATED WEATHER CONDITIONS: COLD

SERVICE COND. SEVERE
PROTECTION EXTENDED
CURE (DAYS) 7

COMMENT & CLARIFICATION TO PROPOSED METHODS
POUR FROM RADIUS 2' TO 14' AT BOTTOM
144B PUMP (1' HIGH) SEE FCR-3794
FOR CONSTRUCTION METHODS.

PRIMARY MASONRY DWG. NO.
CM-2676-06402-5

RATE OF RISE
2"/HR

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE
BY: DAVID BOYNTON TITLE: D.E. DATE: 12/21/82

DES. STRENGTH
5,000 PSI

DESIGN MIX CODE
M-1917

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			CONST. INSPECTION		QUALITY ASSURANCE			
	REF. PROC.	CRAFT SUPT	FIELD ENG	DATE	INSPECTOR	H	Q.C. SIGNOFF	DATE	QA. SIGNOFF
1 CONTACT SURFACES	WP-05	<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
2 FORMS	WP-22	<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
3 REINFORCING STEEL	WP-11	<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
4 EMBEDS		<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
5 MECHANICAL		<i>[Signature]</i>	<i>[Signature]</i>	12/17	Ed Williams	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
6 ELECTRICAL	WP-201	<i>[Signature]</i>	<i>[Signature]</i>	12/20	C.C. Smith	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
7 CADWELDS	WP-01	<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
8 BOP WELDING		<i>[Signature]</i>	<i>[Signature]</i>	12/17	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
9 CODE/SEISMIC WELDING		<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
10 CLEAN-UP	WP-05	<i>[Signature]</i>	<i>[Signature]</i>	12/20	R. Brecklow	<i>[Signature]</i>	<i>[Signature]</i>	12/21/82	<i>[Signature]</i>
11									
12									

CONSTRUCTOR SIGNOFF (AREA SUPT) J.C. Hyatt TIME: 8:50 DATE: 12-21-82
C.I. SIGNOFF Russell V. Brecklow TIME: 10:20 DATE: 12-21-82

DESIGN APPROVAL David Boynton DATE: 12/21/82 TIME OF START 11:30 AM DATE PLACED 12-21-82

YDS. CONCRETE DELIVERED	<u>1116</u>	YDS PLACED IN THIS PLACEMENT	<u>14.0</u>	YARDS WASTED	CONCRETE	<u>2.5</u>
YARDS GROUT DELIVERED	<u>12</u>	CONCRETE	<u>13.5</u>	YARDS PLACED ELSEWHERE	GROUT	<u>1.5</u>
		GROUT	<u>0.5</u>		CONCRETE	<u>0</u>
					GROUT	<u>0</u>

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: Russell V. Brecklow TITLE: C.I. DATE: 12-21-82

REMARKS (ATTACH RELEVANT REPORTS)
* 495 M-07 GROUT MIX PER FCR-3794
* Recheck prior to placement - Sat AM 12-21-82

FOR INFORMATION ONLY

PRECHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1 CBXW444001

LOCATION Cont. #1 Ext. Wall

Az. 0° to 360°, el. 443' to 444'

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat.	RLB
Rate of Placement	Sat.	RLB
Hot Weather Conditions	N/A	RLB
Cold Weather Conditions	Sat.	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	N/A	RLB
COMMENTS <u>A smooth & satisfactory placement (if somewhat over-supervised). Form vibrators and head box arrangements worked well and produced good results.</u>		
<u>A D.R. will be written for 5 1/2 cy placed with a low air %.</u>		

CONSTRUCTION INSPECTOR Russell J. Brullers DATE 12-21-82

CONSTRUCTION INSPECTION SUPERVISOR Thomas Smith DATE 12/28/82

FIELD INSPECTION REPORT FOR REINFORCING STEEL -
REQUIRED DRAWINGS

Placement Number 1CBXW444001

Coordinates A2. 0° to 360°

Elevation 443' to 444'

Computer Printout Reviewed RLB 12-20-82

Daily Document Log Checked RLB 12-20-82

Document Control Contacted RLB 12-20-82

C.I. Review Russell J. Brudlow

Area Engineer Review [Signature]

Drawings Required/Revision:

Affecting Documents

Masonry CAR-2167-G-0630(R2)
-0640(R5)

FCR-C-3218/Extends (Unconcreted Area) ✓

FCR-C-3793(Add'l Const. Joint) ✓

FCR-C-3350 (Hub plate ^{RLB 12-20-82} placement sequence)
(Codwells Wisker bars)

Reinforcing CAR-2167-G-0660(R4)
-0661(R4)
-0662(R5)

FCR-C-3794 (Hub plate placement sequence) ✓

Embeds

Penetrations & CAR-2167-G-0662(R5)
LINER PLATE -2168-G-253505(R3)
-228(R11)

Dowels

Bar Bending CAR-2167-B-9089-10

FIELD INSPECTION REPORT FOR
CONTAINMENT EXTERIOR WALL
DOME REINFORCING STEEL

PLACEMENT NO / LOCATION 1CBXW444001
DRAWING NUMBER _____
BAR BENDING SCHEDULE NO. CAR-2167-G-0660(R4); - 0661(R4); - 0662(R5)

INSPECTOR Russell J. Breedlove DATE 12-20-92
FIELD ENGINEER Michael Johnson DATE 12/20/92
DESIGN QUANTITIES PER SHEET

Verticals Layer 1, I.F., O.F.	HORIZONTALS I.F., O.F.	Verticals Layer 2, O.F.	DIAGONALS ROWS 5,6	ADD. PENETRATING STEEL VERT./HOR./DIAG.	SHEAR BARS	OTHER
123	1	0	0	0	62	0

INSPECTED ITEM (BAR MARKS)	DESIGN QUANTITY	ACTUAL QUANTITY	DESCRIPTION	DISCREPANCIES	CORRECTIVE ACTION	INDIVIDUAL NOTIFIED
			Layer 1 I.F. 0° to 360°			
CJ-4	✓ 61	61	↓	Weldable Grate Reinforcing	None	N/A
CJ-5	✓ 62	62	↓	↓	↓	↓
			I.F. Horizontals 0° to 360°			
CJ-124	✓ 1(set)	1(set)	↓	None	None	N/A
CJ-289	✓ 62	62	Shear Bars 0° to 360°	Partially embedded previously	None	N/A

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

RUB 12-20-82

PLACEMENT NO. 1 CBXW 444 001

PAGE 5 OF 65

DRAWING & REV. CAR-2167-G-0662 (25)

ITEM INSPECTED	LOCATION	DESCRIPTION TYPE - (1 OR LL, 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	Q. A2 = Q. Dome Axis Q. E1 = Q. Dome Axis	(1) Det. "B" Pipe Sleeve (Radial) 24" ϕ	(1) Nelson Studs Cut to allow bottom plate to be set	To be welded back prior to next placement (1 CBXW 444 002) Welded back as of 12-20-82	R. Brudlow D. Bryan 12-20-82
ANCHOR BOLTS					
OTHER	R = 65' 6 7/16 Sym. about Dome Axis	(1) Hub Plate Assembly Rad = 8' 11 5/8 3/8" Curved plate	1) Add'l Inspection holes drilled 2) 12 Nelson Studs Bent > 150 3) 2 Nelson Studs Bent > 150 4) 15 Nelson Studs Bent > 70 < 150	1) FCR-C-3794 2) Cut off & rewelded 3) Cut off & rewelded 4) Bent back to < 70 5) Threaded Studs added 6) Form vibrator supports welded	R. Brudlow D. Bryan 12-20-82

Rev. 9
7/82

CAROLINA POWER & LIGHT COMPANY
S. HARRIS NUCLEAR POWER PLANT
POST PLACEMENT CHECKLIST

Exhibit 2
TP-15

PLACEMENT NO. 1 CBXLW444001 LOCATION Cont. #1 Ext. Wall
 PLACED 12-21-82 SURFACE AREA N/A
 END OF CURE 12-28-82 CURE COMPOUND (AMOUNT) N/A
 CURE/PROTECTION REQUIREMENTS Severe exp. / Extended Protection / 7 days moist cure

CHECKLIST	REM. RKS	INITIALS
<u>FINISH</u>		
A. Steel Trowel	N/A	RUB
B. Wood Float	N/A	RUB
C. Broom	N/A	RUB
D. Hair Brush	N/A	RUB
E. Rubber Float	N/A	RUB
F. Keyways Installed	N/A	RUB
<u>FORMS</u>		
Form & Shoring Removal	N/A	RUB
<u>REPAIRS</u>		
Type of Repair Required	<input checked="" type="checkbox"/> Cosmetic <input type="checkbox"/> Structural <input type="checkbox"/> Forms Still In Place N/A RUB 1-5-83	RUB
<u>EMBED PLATES W/SCREW-IN-STUDS</u>		
Thread Engagement	N/A	RUB
<u>SEISMIC GAP</u>		
Proper Gap Maintained	N/A	RUB
<u>CURING/PROTECTION</u>		
	EXTENSIONS	REMARKS
A. Water ✓	N/A	Sat - 7 days moist
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 ≥ 50°F

COMMENTS:

CONSTRUCTION INSPECTOR Russell J. Bradshaw DATE 1-5-83

CONSTRUCTION INSPECTION SUPERVISOR Herbert L. Taylor DATE 1-10-83

QA-24
2/81
Rev.0

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

Page 1 of 1

PLACEMENT NO. 1CBXW444001 DATE 12-21-82 MODE OF PLACEMENT TRUCK DISCHARGE

LOCATION Containment Bldg.

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 7	DAY 28	DAY 28	DAY			
93165	11:55 AM	8	6 1/4*	68	CP&L 5117B	6.4	CP&L 4854	139.7	CP&L 4854	CP&L 5059B	4000	6370	6580	1	9965	Preliminary slump of 6" 11	
93168	12:30 PM	8 1/6	7*	67	CP&L 5117B	4.5	CP&L 4854	139.6	CP&L 4854	CP&L 5059B	3960	5660	5840	2	9966	Preliminary slump of 8 1/4" 12	
	AM	7 hr 12-21-82														*D.R.C-1751 ISSUED	
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																
	AM																
	PM																

SLUMP REQUIRED 0-7 max in. DESIGN MIX # USED M-97 FIELD QA/QC INSPECTOR Tony Wayne Rogers DATE 12-21-82
 AIR REQUIRED 5-9 % DESIGN STRENGTH 5000 PSI FOR PLACEMENT LAB QA/QC INSPECTOR Wendy J. Wotz DATE 1-18-83
 QA/QC SPECIALIST Eugene Kelly DATE 1-18-83

* per FCR-C-3794



CONCRETE
PLACEMENT
REPORT

FILE _____

PLACEMENT NUMBER **1CBSL216001**

LOCATION (INCLUDE ELEV. IF IN BLDG.)
UNIT 1 C.B. BASE MAT - WEST SIDE

SCHEDULED DATE
7-14-78

TYPE PLACEMENT **STRUCT. MAT** ESTIMATED QUANTITY **3020 YD³** TEMP **90° AT CASSETTE** SLABS **1-4*** SELECTED CLANS

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF.		UNFORMED SURF.	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input checked="" type="checkbox"/>
BUCKET	<input checked="" type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input type="checkbox"/>
CONVEYOR	<input checked="" type="checkbox"/>	DROP	<input type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input checked="" type="checkbox"/>
PUMP	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input checked="" type="checkbox"/>
TRUCK	<input type="checkbox"/>	* OUTSIDE EXTERIOR WALL		* RUBBER FLOAT		<input checked="" type="checkbox"/>		<input type="checkbox"/>		NUCLEAR	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	EXPOSED AGGREGATE ON REMAINDER								NON-NUCLEAR	<input type="checkbox"/>

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

HOT WEATHER

COMMENT & CLARIFICATION TO PROPOSED METHOD

* OUTSIDE EXTERIOR WALL ONLY
(SEE ACTION PLAN FOR THIS PLACEMENT)
* OUTSIDE EDGE OF MAT ONLY

PRIMARY MASONRY DWG. NO.
CAR-2167-G-0610 R6

SPEC. FINISH

DES. STRENGTH
4000 PSI

DESIGN MIX CODE

M44

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE

BY **Charles Tally** TITLE: **A.E.** DATE **7/14/78**

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			QUALITY CONTROL		QUALITY ASSURANCE			
	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE	INSPECTOR
1 CONTACT SURFACES	VP-5	JRL	J.E.E.	7/14/78	TGG		VP-5	7-15-78	JRL
2 FORMS	VP-22	JRL	J.E.E.	7/14/78	TGG		N/A	-	JRL
3 REINFORCING STEEL	VP-11	J.C.	J.E.E.	7/14/78	TGG		VP-11	7-15-78	JRL
4 EMBEDS	NA	NA	NA	7/14/78	TGG		N/A	-	-
5 MECHANICAL	NR	J.E.E.	NA	7/14/78	NA TGG CSH		N/A	-	-
6 ELECTRICAL	NA	J.E.E.	NA	7/14/78	NA TGG CSH		N/A	-	-
7 CADWELDS	VP-1	J.C.	NA	7/14/78	TGG	✓	NA 15	7/14	M. Conough
8 N D E	NA	NA	NA	7/14/78	TGG		N/A	-	-
9 CLEANUP	VP-5	JRL	NA	7/17/78	TGG	✓	VP-5	7-15	JRL
10 WATERSTOP	VP-12	JRL	NA	7/14/78	TGG	✓	VP-12	7-15	JRL
11									
12									
13									
14									

CONSTRUCTOR SIGNOFF (AREA SUPT) **T. Tally** DATE: **7-14-78** Q.C. SIGNOFF **Randy D. Bohls** DATE: **7/14/78** Q.A. SIGNOFF **A.R. Wright** DATE: **7-15-78**

DESIGN APPROVAL **Ken Tally** DATE: **7-15-78** TIME OF START _____ DATE PLACED **07-18-78**

YDS. CONCRETE DELIVERED	3070	YDS. NOT PLACED IN THIS PLACEMENT	76	YARDS WASTED	76
YARDS GROUT	05	YDS. PLACED IN THIS PLACEMENT	2999	YARDS PLACED ELSEWHERE	00

ACCEPTANCE OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME **Randy D. Bohls** TITLE **Construction Inspector** DATE **7/18/78**

REMARKS (ATTACH RELEVANT REPORTS)
Hold on cleanup until time of placement 7/15/78
Scheduled for Monday 7/17/78 7:00 AM
Cleanup to continue ahead of placement 7/17/78

000560

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-CBSL216001

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1CBSL 216001

LOCATION Unit No. 1
Containment Building

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

QC INSPECTOR Randy R. Shivers DATE 7/18/78

PRINCIPAL SITE CIVIL ENGINEER L. O'Connell DATE 7/19/78

SK

FOR INFORMATION ONLY

TP-21
Exhibit 1

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

Placement No. ICBSL 21605!

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 65° to 115° Fuel Handling Wall Between Requets and bond of membrane to waterstop.	Several Holidays Detected and patched in accordance with WP-02.	None	Satisfactory	Randy G. Godwin
					Individual Notified: Stanley Carter
					Date 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikastix Epoxy Cement	None	None	Satisfactory	Randy G. Godwin
					Individual Notified: N/A
					Date 5/24/78
3	Waterstop Tie-in to existing Waterstop in Fuel Handling Bldg. Wall 0° and 180° (Top and Bottom)	None	None Butt-splice approved by FCR-180	Satisfactory	Randy G. Godwin
					Individual Notified: J.C. Hyatt
					Date 7/11/78
4	Waterstop Fuel Handling Wall Top Layer (0° - 151° - 50')	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. <u>Not completed</u> 7/13/78	Satisfactory complete 7/14/78 3:30 PM	Satisfactory	Randy G. Godwin
					Individual Notified: J.C. Hyatt
					Date 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (0° - 151° 50')	None All work under Item 4 above completed in accordance with specifications.	Final check was made prior to concrete placement 6:00 AM 7/17/78	Satisfactory	Randy G. Godwin
					Individual Notified: Jim Lathan
					Date 7/17/78

SKK

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

FOR INFORMATION ONLY
4

Placement No. ICBSL216001

Sheet 1 of 4

Location Unit No. 1 Containment Building

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

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place	Two bars checked out of tolerance, but checked out upon correction by field	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy D. Colvin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2 inch <u>min.</u>	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy D. Colvin
3	Elevation 198 ft. Bottom Reinf. North-South Bars	<u>None</u> All req'd. bars in place.	Five spacing violations were noted and corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/8/78 Date Randy G. Colvin
4	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel Access Area)	<u>None</u> All req'd. bars in place.	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy G. Colvin
5	Elevation 204 ft. Bottom Mat Circular Bars Radial Bar Curt. Joint between 90' and 30'-10' (Lower Layer of Lower Mat)	<u>None</u> All req'd. bars in place	All violations corrected and checked out 6/14/78	<u>Satisfactory</u>	Randy G. Colvin Individual Notified: Frank Collins Date 6/14/78 SPK

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

FOR INFORMATION ONLY

Placement No. ICBSL 216001

Sheet 2 of 4

Location Unit No 1 Containment Building

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

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

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

FOR INFORMATION ONLY

Placement No. 1CB5L216001

Sheet 3 of 4

Location Unit No 1 Containment Building

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

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 216</u> Cylinder Wall Dowels - 1 st Row (90° - 30°-10°)	<u>None</u> All req'd bars in place.	Numerous bars out of tolerance as far as spacing. Quality was unsatisfactory. Superintendent and General Foreman notified. Both agreed that tolerances would be met and quality re-established.		Randy G. Godwin Individual Notified: Frank Collins Jim Lathan Date 7/6/78
2	<u>Elevation 216</u> Cylinder Wall Dowels - 2 nd Row, 3 rd Row, 5 th Row. (30°-10° - 151°-50°)	<u>None</u> Areas complete, No violations Work not complete as of 7/11/78.	Several violations noted and reported to General Foreman	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/11/78
3	<u>Elevation 204</u> Shear Truss Bars	Not complete as of 7/12/78	Several Bars left out need to be corrected 7/12/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/12/78
4	<u>Elevation 216</u> Cylinder Wall Dowels all Rows including Vertical and Horizontal Bars.	<u>None</u> All req'd bars in place.	Several areas flagged for spacing violations. General Foreman was notified. Not corrected 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
5	<u>Elevation 216</u> Shear Truss Bars 21 quantity bars and 6 bars in Key Way.	<u>None</u> All req'd bars in place. (Reference Item 3)	<u>None</u> All areas corrected 7/13/78 4:00 PM	Satisfactory EAK	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78

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

FOR INFORMATION ONLY

Placement No. ICT5L216001 Sheet 4 of 4
 Location Unit No. 1 Containment Building
 Drawings CAE-2167-G-0612, 0613, 0614, 0615, 0616, 0617, 0618 & 0619

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SCHEDULING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 198</u> Reactor Vessel Recess Vertical Bars adjacent to Slope Wall	<u>None</u> All req'd bars in place.	Tolerances need to be met between bars and slope wall in several areas. Not completed 7/13/78 4:00 PM	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
2	<u>Elevation 216</u> Bottom Mat Top Mat Upper & Lower Layers Radial and Circular Bars FINAL CHECK	<u>None</u> All req'd bars in place.	Several bars had to be moved to accommodate concrete placement. Top to be corrected prior to tipping out of concrete.	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 7/13/78
3	<u>Elevation 216</u> Shear Keys at Radius 44'-9" Steel - see Detail "Z" - Dwg. 2167-G-0613	<u>None</u> All bars in place in 7 Keys located in placement.	<u>None</u> All errors noted in work.	Satisfactory	Randy G. Godwin Individual Notified: N/A Date 7/13/78
4	<u>Elevation 216</u> Reinf. around Bulkhead at Reactor Vessel Recess. 3 #18 @ 12"	<u>None</u> All bars in place.	<u>None</u> Area correctly installed.	Satisfactory	Randy G. Godwin Individual Notified: N/A Date 7/13/78
5	<u>Elevation 204 to 216</u> Final Visual inspection made on entire placement. (0° - 151° 51')	<u>None</u> All req'd bars in place. All work performed in accordance with WP-11.	<u>None</u> All areas which were flagged have been corrected. 6:00 AM 7/12/78	Satisfactory EAK	Randy G. Godwin Individual Notified: Frank Collins Date 7/12/78

TP-21
Exhibit 1

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

FOR INFORMATION ONLY

Placement No. 1CT35L216 out

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Viraliner Inspection using Holiday Detector	Several Holidays Detected and patched in accordance with WP-02.	None	satisfactory	Randy G. Godwin
	From 65° to 115° Fuel Handling Wall Between Reqlts and bond of membrane to waterstop.				Individual Notified: Stanley Carter
					Date: 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikastix Epoxy Cement	None	None	satisfactory	Randy G. Godwin
					Individual Notified: N/A
					Date: 5/24/78
3	Accidental Burning of Waterstop Location ± 100° Const. Joint Area to be cut out and patched.	Not corrected as of PM 6/21/78. Area not as bad as anticipated. Corrected 7/6/78 ✓		-	Randy G. Godwin
					Individual Notified: Jim Cather
					Date: 6/21/78
4	Waterstop Fuel Handling Wall Top Layer (90° - 151° - 50")	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. satisfactory Complete 7/14/78			Randy G. Godwin
					Individual Notified: J.C. Hyatt
					Date: 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (90° - 151° 50")	None All work under Item 4 above completed in accordance with specification.	Final check was made prior to concrete placement. 6:00 AM 7/17/78	satisfactory	Randy G. Godwin
					Individual Notified: Jim Cather
					Date: 7/17/78

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

FOR INFORMATION ONLY

Placement No. LCBSL 216004

Sheet 1 of 4

Location Unit No. 1 Containment Building

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

7.	INSPECTION LOCATION	CLARITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Frank Collins
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under $\frac{1}{2}$ ". Discussed with Area Engineer decided to tolerate $\frac{1}{2}$ " or more. Future clearance to be $\frac{1}{2}$ " min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Ernie G. Godwin
3	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) Recess Area	<u>None</u> All req'd. bars in place.	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Frank Collins
4	Elevation 204 ft. Bottom Mat Circular Bar Radial Bar Const. Joint Between 151-51' and 90' (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place.	Several violations noted and discussed with General Foreman	<u>Satisfactory</u>	Stan Warner Foreman Individual Notified: 6/12/78 Date Ernie G. Godwin
5	Elevation 204 ft. Bottom Mat Circular Bars Radial Bars Const. Joint between 151-51' and 90' (Lower Layer of) Lower Mat	<u>None</u> All req'd. bars in place	All violations corrected and checked out. 6/13/78	<u>Satisfactory</u> SK	Ernie G. Godwin Individual Notified: Frank Collins Date 6/13/78

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

FOR INFORMATION ONLY

Placement No. ICB5L216004

Sheet 2 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2157-G- 0612 0613 0614 0615 0616 0617 0618 0619

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

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

FOR INFORMATION ONLY

Placement No. 1CBSL216004

Sheet 3 of 4

Location Unit No. 1 Containment Building

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

7.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IG INSPECTOR
1	Elevation 216 Top Mat Upper Layer Radial Bars Circular Bars (90° - 151°-50')	None All req'd. bars in place.	Several areas need to be plumped and tied down. Foreman was informed and stated that this would be done prior to wall dowel installation.	satisfactory	Randy G. Godwin Individual Notified: Frank Coll. Date 7/6/78
2	Elevation 201 SHEAR KEY U Bars (90° - 151°-50')	None All req'd. bars in place.	Bars checked. Will have to be moved around several times to accommodate wall dowel installation. To be rechecked prior to concrete placement.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78
3	Elevation 204 SHEAR TRUSS BARS	Not Complete as of 7/5/78	—	Work in progress	Randy G. Godwin Individual Notified: — Date 7/5/78
4	Elevation 216 Cylinder Wall Dowels - 1 st Row (90° - 151°-50')	None All req'd. bars in place.	Numerous bars out of tolerance as far as spacing. quality was unsatisfactory. Superintendent and General Foreman notified. Both agreed that tolerances would be met and quality re-established.		Randy G. Godwin Individual Notified: Frank Coll. Jim Latta Date 7/6/78
5	References Item No. 1, 2, 3 and 4 on sheet 4 of Placement No. 1CBSL216001. These items are for Isometric Nos. 1CBSL216001, 004 and 005.				Randy G. Godwin Individual Notified: N/A Date 7/14/78 SPK

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

FOR INFORMATION ONLY

Placement No. 1CBSL216004

Sheet 4 of 4

Location Unit No. 1 Containment Building

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

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	IQC INSPECTOR
1	<p>Elevation <u>204 to 216</u></p> <p>Final visual inspection made on entire placement. (0° - 151° 5')</p>	<p><u>None</u></p> <p>All req'd. bars in place. All work performed in accordance with WP-11</p>	<p><u>None</u></p> <p>All areas which were flagged have been corrected.</p> <p>6:00 AM 6/17/78</p>	<p><u>satisfactory</u></p>	<p>Randy G. Godwin</p> <hr/> <p>Individual Notified: Frank Collins</p> <hr/> <p>Date 7/17/78</p>
2					<p>Individual Notified:</p> <hr/> <p>Date</p>
3					<p>Individual Notified:</p> <hr/> <p>Date</p>
4					<p>Individual Notified:</p> <hr/> <p>Date</p>
5					<p>Individual Notified:</p> <hr/> <p>Date</p>

SK

TP-21
Exhibit 1

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

FOR INFORMATION ONLY

Placement No. 1CBSL21005

Sheet 1 of 1

Location Unit No 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	OC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 0° to 65° Fuel Handling Wall Between Raglets and bond of Membrane to waterstop.	Several Holidays Detected and patched in accordance with WIP-02.	None	Satisfactory	Randy G. Godwin Individual Notified: Stanley Carter Date: 6/5/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikoshix Epoxy Cement	None	None	Satisfactory	Randy G. Godwin Individual Notified: N/A Date: 5/24/78
3	Accidental Burning of Waterstop. Location ± 30°-10' const. Joint. Area to be cut out and patched.	Not corrected as of PM 6/21/78. Area not as bad as anticipated. Corrected 7/6/78 ✓			Randy G. Godwin Individual Notified: Jim Catlan Date: 6/21/78
4	Waterstop Fuel Handling Wall Top Layer (0° - 30°-10')	Waterstop needs to be tied up to eliminate possibility of bending down when concrete is placed. Satisfactory Complete 7/14/78			Randy G. Godwin Individual Notified: J.C. Hyatt Date: 7/13/78
5	Waterstop Fuel Handling Wall Top Layer Bottom Layer (0° - 30°-10')	None All work under Item 4 above completed in accordance with specification.	Final check was made prior to concrete placement. 6:00 AM 7/17/78	Satisfactory	Randy G. Godwin Individual Notified: Jim Catlan Date: 7/17/78

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

FOR INFORMATION

Placement No. LCBSL216005

Sheet 1 of 3

Location Unit No. 1 Containment Building

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

ID	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	CC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place	Two bars checked out of tolerance, but checked out upon correction by field.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Godwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2" min.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Godwin
3	Elevation 198 ft. Bottom Reinf. North-South Bars	<u>None</u> All req'd. bars in place.	Three violations were noted and corrected.	<u>satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/8/78 Date Randy G. Godwin
4	Elevation 204 Ft. Bottom Mat Circular Bars Radial Bar Const. Joint between 0° and 30° - 10' (Lower Layer of Lower Mat)	<u>None</u> All req'd. bars in place	All violations corrected and checked out 6/14/78	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins 6/14/78 Date
5	Elevation 204 Ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 340° - 0°	<u>None</u> All req'd. bars in place.	Several violations noted and Foreman notified	<u>satisfactory</u>	Randy G. Godwin Individual Notified: 5/7/78 Warner Date 6/15/78 SK

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

FOR INFORMATION ONLY

Placement No. 1CB5L216005

Sheet 2 of 3

Location Unit No 1 Containment Building

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

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
	<u>Elevation 204</u> No clearance between cadweld and concrete on lower Mat. <u>Location - 55° +</u>	—	Not corrected as of TM 6/21/78 Corrected 7/6/78	— by use of shim.	Randy G. Godwin Individual Notified: Frank Collins Date 6/21/78
2	<u>Elevation 198</u> Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel Recess Area)	<u>None</u> All req'd. bars in place.	A final rebar inspection was made and all violations corrected.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/6/78
3	<u>Elevation 204</u> Bottom Mat Upper Layer Radial and Circular Bars (0° - 30° - 10')	<u>None</u> All req'd. bars in place.	Several areas to be plumbed and tied down. Foreman Notified.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrind Date 6/14/78
4	<u>Elevation 204</u> SHEAR TRUSS BARS	Not complete as of 7/5/78.	—	Work in progress.	Randy G. Godwin Individual Notified: — Date 7/5/78
5	<u>Elevation 201</u> SHEAR KEY U Bars Between 90° 0° - 30° - 10'	<u>None</u> All req'd. bars in place.	Bars checked. Will have to be moved around several times to accommodate wall diaphragm installation. To be rechecked prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78

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

FOR INFORMATION ONLY

Placement No. 1 CBSL 216005

Sheet 3 of 3

Location Unit No 1 Containment Building

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

INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	INSPECTOR
<p>Elevation <u>216</u> <u>Top Mat</u> <u>Bottom Layer</u> <u>Radial Bars</u> <u>(0° - 30° - 10')</u></p>	<p><u>None</u> All req'd. bars in place.</p>	<p>All bars met tolerance. By using plumb bob able to see several bars not plumb with bottom Mat. Informed Foreman and General Foreman.</p>	<p><u>satisfactory</u></p>	<p>Randy G. Godwin Individual Notified: Frank Collins Date 6/22/78</p>
<p>Elevation <u>216</u> <u>Top Mat</u> <u>Upper Layer</u> <u>Circular and Radial</u> <u>Bars</u> <u>(0° - 30° - 10')</u></p>	<p><u>None</u> All req'd. bars in place.</p>	<p>Several areas need to be plumbed and tied down. Foreman was informed and stated that this would be done prior to Wall Dowel installation.</p>	<p><u>satisfactory</u></p>	<p>Randy G. Godwin Individual Notified: Stan Warmbrnd Date 6/29/78</p>
<p>Elevation <u>216</u> <u>Cylinder Wall</u> <u>Dowels - 1st Row</u> <u>(0° - 30° - 10')</u></p>	<p><u>None</u> All req'd. bars in place.</p>	<p>one bar to be moved to clear waterstop in Bulkhead. Foreman notified.</p>	<p><u>satisfactory</u></p>	<p>Randy G. Godwin Individual Notified: Stan Warmbrnd Date 7/6/78</p>
<p>Reference Item Nos. 1, 2, 3 and 4 on Sheet 4 of Placement Report No. 1 CBSL 216001. These Items are for Isometric Nos. 1 CBSL 216001, 004 and 005.</p>				<p>Randy G. Godwin Individual Notified: N/A Date 7/14/78</p>
<p>Elevation <u>204 to</u> <u>216</u> Final visual inspection made on entire placement. <u>(0° - 151° 50')</u></p>	<p><u>None</u> All req'd. bars in place. All work performed in accordance with WP-11.</p>	<p><u>None</u> All areas which were flagged have been corrected. 6:00 AM 7/17/78</p>	<p><u>satisfactory</u></p>	<p>Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78</p>

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

FOR INFORMATION ONLY
 EXHIBIT 15

PLACEMENT NO. 1CBSL 216001

LOCATION Unit No 1
Containment Building

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

QC INSPECTOR Randy D. Edwin DATE 7/25/78
 PRINCIPAL SITE CIVIL ENGINEER [Signature] DATE 7/25/78

QA-29
12/77
Rev. 1

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT

Page 1 of 3

FOR INFORMATION ONLY

PLACEMENT NO. JCB5816 001 DATE 7-17-78 (Procedure CQC-13)
 LOCATION # 1 Containment Bldg. Pump discharge) Test pt. 2
 WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER
 () WET () FOG () P. CLOUDY
 AMBIENT TEMP. 66 °F
 THERMOMETER NO. 00448

TRUCK NO.	TIME SAMPLED	ELEVATION FEET	FICKET NO.	SLIP (IN)	CONC. TEMP. (OF)	THERM. NO.	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS		REMARKS
										7 DAY	28 DAY	
24	11:25	10	12394	2	82	00448	00509A	147.8		4990	6470	Sit 1 LAB 1206
23	11:36	10	12398	2 1/2	80			145.6		4740	6080	Sit 3 1208
30	12:25	10	12408	3 1/2	87			148.4		4830	6150	Sit 5 1210
29	1:10	10	12418	2 1/4	81							
22	1:35	10	12428	3 3/4	80							
25	2:30	10	12438	2 1/4	83							
24	3:00	10	12448	2 1/4	83			147.4		5090	6440	Sit 6 1212
29	4:00	10	12458	3 1/4	82							
26	4:30	10	12468	3 1/4	84			146.4		4530	6230	Sit 8 1214
24	5:10	10	12478	2 1/2	93							
23	5:45	10	12488	3	83			147.0		4770	6440	Sit 10 1216
25	6:40	10	12498	3 1/2	82							

SLEEP REQUIRED 4 ± 1 in.
 AIR EXHAUSTED 6 ± 2 ft.
 BUREAU HEIGHT 11-45 AS-56 6mm
 PRESSURE 4000 psi 8-16-78
 FIELD QC INSPECTOR Ricky Stuibard DATE 7-17-78
 LAB QC INSPECTOR Steve Mendenhall DATE 8-14-78
 QA SPECIALIST Wayne Kelly DATE 8-15-78

FOR INFORMATION ONLY

AMBIENT TEMP. 82 °F
 THERMOMETER NO. 04507

DATE 7-17-78

PLACEMENT NO. 1035A216001

LOCATION # / Containment Bldg (pump discharge) Test pt. 2

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

TABLE NO.	TIME SAMPLE	GPA TUBE	BUCKET NO.	SLURRY (%)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS		REMARKS	
												7 DAY	28 DAY		
20	7:45	10	12508	3 1/2	83	MANAB	4.4	MS508A	149.9	MS508A		4350	6230	5940	Set 12 12/18
21	8:00	10	12508	3 1/2	80		5.4								
22	8:30	10	12529	6 1/2	80		5.2		147.8	MS508A		4240	6010	5720	Set 14 12/20
23	9:10	10	12528	4 1/2	86		5.0								
24	9:35	10	12522	3	90		5.8		148.1	MS508A		4310	6230	6510	Set 16 12/22
25	10:05	10	12558	2	90		5.2								
26	10:35	10	12568	1 3/4	80		5.0		148.1	MS508A		4480	6470	6190	Set 18 12/24
27	11:15	10	12578	4 1/2	82		4.9								
28	11:55	10	12588	2 3/4	76		5.4		147.7	MS508A		4280	6080	5820	Set 20 12/26

FIELD QC INSPECTOR Bruce Hoped DATE 7/18/78
 LAB QC INSPECTOR Alan M. Johnson DATE 8-14-78
 QA SPECIALIST Elyse Kelly DATE 8-15-78

SLURRY PLACED 4 1/2 in.
 ALL RECEIVED 6 1/2 in.
 DESIGN MIX 1035A-M-56 6mw 8-16-78
 BATCH SPECIFIC 4000 psi

FLASHPOINT NO. JCB5210001 DATE 7-17-79 (Procedure CPK-13)

LOCATION # 1 Confinement Bldg (pump discharge) Test pt 1

WEATHER: (M) CLEAR () OVERCAST () RAIN () OTHER () P. CLOUDY

FOR INFORMATION ONLY

AMBIENT TEMP. 73 °F
THERMOMETER NO. M 4927

TEST NO.	TEST SAMPLE	DEPTH	TEMP. (°F)	SLIP (IN)	THICKT (IN)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS		REMARKS
									7 DAY	28 DAY	
25	10' 45"	10	80	3	12311	ms527	148.0	1.19	4810	5940	Set 2 ²¹⁶ 1207
30	11' 0"	10	80	1 1/2	12313	ms527	148.6		5130	6260	Set 4 1209
23	12' 0"	10	80	2	12403	ms527	148.4		4440	5910	Set 5A 1211
27	1' 20"	10	80	3	12413	ms527	148.1		4560	6540	Set 7 1213
23	1' 35"	10	83	4 3/4	12423	ms527	148.5		4770	6930	Set 9 1215
27	2' 20"	10	83	2 1/4	12433	ms527	148.9		4490	6050	Set 11 1217
23	3' 20"	10	82	2 3/4	12443	ms527					
26	3' 45"	10	83	3	12453	ms527					
22	4' 15"	10	84	3	12463	ms527					
28	5' 00"	10	86	3 1/4	12473	ms527					
22	5' 35"	10	86	2 1/4	12483	ms527					
28	6' 45"	10	86	4	12493	ms527					

SLIP REQUIRED 4 in. FIELD QC INSPECTOR John Holland DATE 7-17-79
 AIR REQUIRED 6 in. LAB QC INSPECTOR Atta Moustafa DATE 8-14-78
 DESIGN MIX # M-95 17-56 CMW QA SPECIALIST Eugene Kelly DATE 8-15-78
 DESIGN SPECIFICATION 4000 psi

12/77
Rev. 1

CAROLINA POWER LIGHT COMPANY
SHEARON HARRIS, NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure COC-13)

Page 2 of 4

FOR INFORMATION ONLY

PLACEMENT NO. 1CBSk216001

DATE 7-17-78 - 7-18-78
(pump discharge) Test pt. 1

LOCATION # 1 Containment Bldg

AMBIENT TEMP. 80 °F
THERMOMETER NO. m4507

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

TRUCK NO.	TIME SAMPLED	INDIVIDUAL TRUCK YARDAGE	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7-DAY	7-DAY	7-DAY	7-DAY	
26	7:00	10	12503	3 1/4	81	m4507	4.7	m4507A								
26	8:05	10	12513	2 1/2	82		4.1		148.1	m4507A		4530	6190	5130	5129	Set 13 1219
24	8:30	10	12523	3 1/2	82		4.9									
27	8:50	10	12533	3 3/4	82		4.7		146.9	m4507A		4210	6400	6300		Set 15 1221
25	9:37	10	12543	3 1/4	80		4.6									
25	10:06	10	12553	2 1/2	80		4.3		149.0	m4507A		4560	6580	6380		Set 17 1223
28	10:20	10	12563	2 1/2	80		4.5									
28	11:22	10	12573	4	82		4.2		146.8	m4507A		4460	5980	5800		Set 19 1225
26	11:45	10	12583	5	82		4.8									
24	12:20	10	12593	4 1/4	80		5.2		150.0	m4507A		3470	5080	5410	5660	Set 21 1227
26	12:30	10	12598	4 1/4	80		5.0									
27	12:50	10	12603	3	80		5.2		150.0	m4507A		4210	5230	5520	5670	Set 22 1228

SLUMP REQUIRED 4 ± 1 in.

AIR REQUIRED 6 ± 2 %

DESIGN MIX # M-56 ^{GMW} 8-8-78

DESIGN STRENGTH 4000 psi.

FIELD QC INSPECTOR Bruce [Signature] DATE 7/18/78

LAB QC INSPECTOR Steve [Signature] DATE 8/15/78

QA SPECIALIST Eugene Kelly DATE 8-17-78

CAROLINA POWER LIGHT COMPANY
SHEARON HARTS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

PLACEMENT NO. 1CBSA216001

DATE 7-18-78

FOR INFORMATION ONLY

LOCATION # 1 Containment Bldg

(pump discharge) Test pt. 1

AMBIENT TEMP. 71 °F

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

THERMOMETER NO. M4507

TRUCK NO.	TIME SAMPLED	EPA/LEGAL TRUCK YARDAGE	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7DAY	8DAY	15DAY	28DAY	
												30	1:10	10	12608	
27	1:25	10	12613	2 1/2	80		5.0		149.1	M4507A		4460	5910	5980		255 Set 23 1229
23	1:45	10	12618	3 1/2	78		5.3									
29	2:10	10	12624	2 3/4	80		5.0		147.7	M4507A		4770	5840	5520	6230	270 Set 24 1230
24	2:20	10	12629	3 1/4	80		5.1									
22	2:40	10	12634	3 1/4	82		2.8		146.4	M4507A		4530	5800	6080		257 Set 25 1231
28	2:50	10	12639	3 1/2	80		4.8									
30	3:10	10	12644	3 1/4	80		4.5		147.9	M4507A		4390	6400	6470		258 Set 26 1232
29	3:30	10	12649	2 1/2	80		4.7									
23	3:40	10	12654	2 3/4	80		6.0		146.9	M4507A		4740	5530	5810	6100	259 Set 27 1233
29	4:00	10	12689	2 3/4	80		4.4									
26	4:20	10	12664	2 1/2	80		4.4		147.1	M4507A		4460	5380	5380		260 Set 28 1234

SLUMP REQUIRED 4 ± 1 in.

FIELD QC INSPECTOR Bruce Wolfe DATE 7/18/78

AIR REQUIRED 6 ± 2 %

LAB QC INSPECTOR Alan M. ... DATE 8/15/78

DESIGN MIX # M-45 M-56 6MW 8-Y-78

QA SPECIALIST Eugene Kelly DATE 8-17-78

DESIGN STRENGTH 4000 psi

PLACEMENT NO. 1CBSA 216001

DATE 7-18-78

FOR INFORMATION ONLY

LOCATION # 1 Containment Bldg. (pump discharge) Test pt. 1

AMBIENT TEMP. 70 °F

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

THERMOMETER NO. 114507

TRUCK NO.	TIME SAMPLED	REPTVTRIAL TRUCK YARDAGE	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (°)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS				REMARKS
												RESULTS				
												1 DAY	2 DAY	3 DAY	4 DAY	
28	4:40	10	12669	4	80	m4507	4.4	m4507A								
25	5:00	10	12674	6 1/4	80		4.7		149.8	m4507A		3860	5700	5130	5240	Set 29 1235
26	5:20	10	12679	3	80		6.5									
29	5:35	10	12684	3	80		4.2		148.7	m4507A		4240	6050	6100		Set 30 1236
25	6:05	10	12689	2	80		4.9				+10					
27	6:30	10	12694	2 1/4	79		5.0		148.0	m4507A		4170	5060	5090		Set 31 1237
23	7:30	10	12699	2 1/2	79	↓	5.0	↓	147.7	m4507A						Set 32 1238
	:															
	:															
	:															
	:															
	:															
	:															
	:															

SLUMP REQUIRED 4 ± 1 in.

FIELD QC INSPECTOR Bruce T. Kelly DATE 7/18/78

AIR REQUIRED 6 ± 2 %

LAB QC INSPECTOR Steve Marshall DATE 8/15/78

DESIGN MIX # M-495 M-56 6 MW 8-8-78.

QA SPECIALIST Eugene Kelly DATE 8-17-78

DESIGN STRENGTH 4000 psi.



CONCRETE
PLACEMENT
REPORT

FILE

PLACEMENT NUMBER 1CB5L216002

LOCATION (INCLUDE ELEV. IF IN BLDG)
Unit #1 CB Box - West - East Side

SCHEDULED DATE

TYPE PLACEMENT Struct. Mat ESTIMATED QUANTITY 4709 yds TEMP. LIMIT 50 placed 1-4" BEISING CLASS

PROPOSED PLACEMENT METHODS (CHECK APPLICABLE SPACES)

TRANSPORTING		PLACING		VIBRATION		FINISHING		FORMED SURF		UNFORMED SURF	
BUGGY	<input type="checkbox"/>	CHUTE	<input type="checkbox"/>	INTERNAL	<input type="checkbox"/>	HAND SCREED	<input checked="" type="checkbox"/>	FORMS ALONE	<input type="checkbox"/>	WATER	<input type="checkbox"/>
BUCKET	<input type="checkbox"/>	TREMIE	<input checked="" type="checkbox"/>	FORM	<input checked="" type="checkbox"/>	BULL FLOAT	<input type="checkbox"/>	TARPS	<input type="checkbox"/>	WET BURLAP	<input type="checkbox"/>
CONVEYOR	<input type="checkbox"/>	DROP	<input checked="" type="checkbox"/>		<input type="checkbox"/>	TROWEL MACH.	<input type="checkbox"/>	INSULATION	<input type="checkbox"/>	VAPOR BARRIER	<input checked="" type="checkbox"/>
PUMP	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BROOM	<input type="checkbox"/>	FORMS & WATER	<input type="checkbox"/>	MEMBRANE	<input type="checkbox"/>
TRUCK	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	NUCLEAR**	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	* outside exterior wall				* Rubber Float		<input checked="" type="checkbox"/>		NON-NUCLEAR	<input type="checkbox"/>
	<input type="checkbox"/>	Exposed Aggregate on Remainder									

ANTICIPATED SPECIAL WEATHER PRECAUTIONS

COMMENT & CLARIFICATION TO PROPOSED METHODS

Hot weather

** outside exterior wall only
(See action plan for this placement)
*** outside edge of mat only

PRIMARY MASONRY DWG. NO. 2167-G-0610 R6 SPEC. FINISH

NAME/TITLE, PERSON SUBMITTING ALL THE ABOVE
BY: Ken Fuller TITLE: Area Tech DATE: 7-10-78

DES. STRENGTH 4000 psi DESIGN MIX CODE M56

PRE-PLACEMENT CHECKOUT	CONSTRUCTOR			QUALITY CONTROL		QUALITY ASSURANCE			
	REF. PROC.	CRAFT SUPT.	FIELD ENG.	DATE	INSPECTOR	H	REF. PROC.	DATE	INSPECTOR
1 CONTACT SURFACES	WP-5	JRL	J.E.E.	8/16	TGG				
2 FORMS	WP-22	JRL	J.E.E.	8/16	TGG				
3 REINFORCING STEEL	WP-11	J.C.	J.E.E.	8/16	TGG				
4 EMBEDS	WP-18	JRL	J.E.E.	8/16	TGG				
5 MECHANICAL	NA	JRL	NA	8-16	NA CSH	<input checked="" type="checkbox"/>	NA	8/17	R. Ketcher
6 ELECTRICAL	NA	JRL	NA	8-16	NA CSH				
7 CADWELDS	WP-1	JRL	NA	8-16	L.F.A.	<input checked="" type="checkbox"/>	CH-15	8/17	P. Beane
8 N D E	WP-5	NA	NA	8/16	TGG				
9 CLEANUP	WP-5	JRL	J.E.E.	8/16	TGG				
10 WATERSTOP	WP-12	JRL	J.E.E.	8/16	TGG				
11									
12									
13									
14									

CONSTRUCTOR SIGNOFF (AREA SUPT) JRL DATE: 8/17/78 Q.C. SIGNOFF J.E.E. DATE: 8/17/78 Q.A. SIGNOFF J.E.E. DATE: 8/17/78

DESIGN APPROVAL Charles Keller DATE: 8/16/78 TIME OF START 0600 DATE PLACED 08-17-78

YDS. CONCRETE DELIVERED 4792 YDS. NOT PLACED IN THIS PLACEMENT 324 YARDS WASTED 38.2

YARDS GROUT 08 YDS. PLACED IN THIS PLACEMENT 4792 YARDS PLACED ELSEWHERE 00

ACCEPT. NOE. OF PLACEMENT METHODS & COMPLETENESS OF ABOVE INFORMATION
NAME: Robert S. French TITLE: Construction Inspector DATE: 8/17/78

REMARKS (ATTACH RELEVANT REPORTS)
#6 bars in shear key to be installed immediately prior to placement
** Cleanup to proceed from this pour

PRE-CHECKOUT DATA BY PLACING ORGANIZATION

PRE-PLACEMENT CHECKOUT

POST PLACEMENT

1-CB-1CB5L216002

000561

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

PLACEMENT CHECKLIST

PLACEMENT NO. 1035621602

LOCATION Unit 1 Cont. Bldg
El. 216

CHECKLIST	REMARKS	INITIALS
Free Fall Height	Sat	CAH
Rate of Placement	Sat	CAH
Hot Weather Conditions	Sat	CAH
Cold Weather Conditions	N/A	CAH
Layer Thickness	4" Sat	CAH
Use of Placing Equipment	Sat	CAH
Consolidation	Sat	CAH
Embedded Items	Sat	CAH
Forms	Sat	CAH

FOR INFORMATION ONLY

INSPECTOR [Signature] DATE 8/10/72

PRINCIPAL SITE CIVIL ENGINEER [Signature] DATE 8/10/72

SK

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT

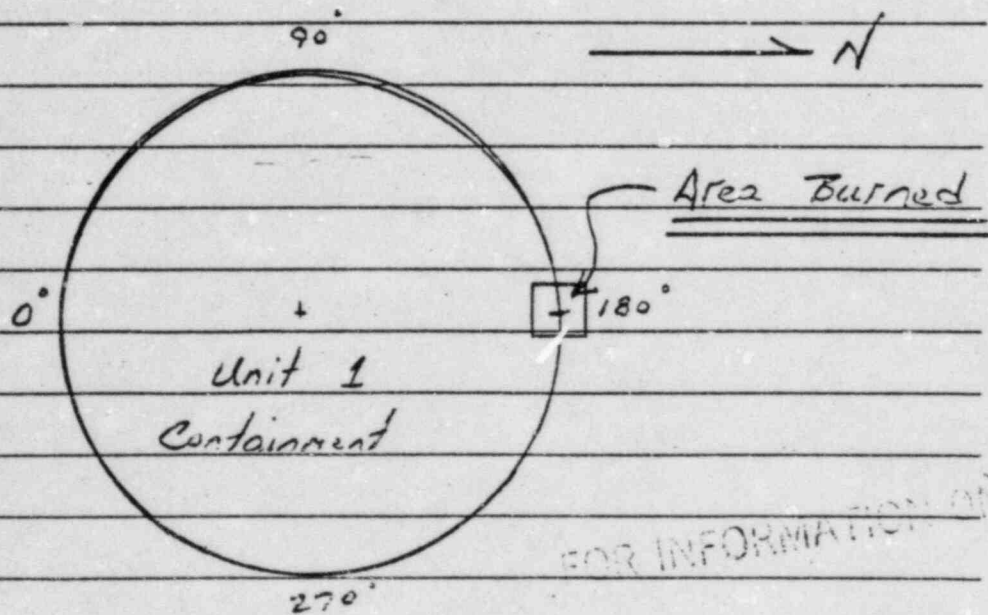
FIELD INSPECTION REPORT

Date 7/26/78 Spec. No. WP-02
Location Unit No. 1 Inspector Randy G. Godwin
Elevation Containment Bldg. Shift Day
Placement No. 1CBSL216002 Weather Sunny, Mild

COMMENT

Accidental Burning of Waterproof Membrane

During a daily inspection of the waterproof membrane and waterstop on the Fuel Handling Building wall, the above inspector noticed an area of waterproof membrane burned by cadweld operations. The Area Superintendent and General Foreman were notified of this problem and in turn we were informed that it would be corrected.



cc: Jim Nevill
Charles Nail
Ken Fuller
Jim Lathan

INSPECTOR Randy G. Godwin
Q A REVIEW Eugene Kelly 9/21/78

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

Placement No. 1CBSL216002

Sheet 1 of 2

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	Vinaliner Inspection using Holiday Detector From 115° to 180° Fuel Handling Wall Between Peglets and bond of membrane to waterstop.	Several Holidays Detected and patched in accordance with WP-02	None	Satisfactory	Randy G. Godwin Individual Notified: Stanley Carter Date 6/8/78
2	Repair of Waterstop Fuel Handling Wall Top Waterstop Repaired with Sikastix Epoxy Cement	None	None	Satisfactory	Randy G. Godwin Individual Notified: N/A Date 5/24/78
3	Repair of Vinaliner Membrane Six accidental Holes drilled on 204 Elevation. (0° - 270°)	None N/A	None N/A	Satisfactory Area patched and New concrete replaced	Randy G. Godwin Individual Notified: Jim Catlan Date 7/12/78
4	Repair of Waterstop Azimuth 225° ± Elevation 204 Waterstop burned during Cadweld operation.	Area was chipped out and waterstop replaced, checked 7/14/78 RGG	None Not Applicable	Satisfactory	Randy G. Godwin Individual Notified: Jim Catlan Date 7/14/78
5	Waterstop Butt Splices 20° ± 215° ±	None All Splices Made in accordance with WP-12.	None	Satisfactory	Randy G. Godwin Individual Notified: J. C. Hyatt Date 7/21/78

FOR INFORMATION ONLY

5/11

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

Placement No. CB5L216 002

Sheet 2 of 2

Location Unit No 1 Containment Bldg.

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Waterstop & Waterproofing</u> Azimuth 180° Accidental Burning by Cadweld	None Patching in progress by Carpenters and Painters (Completed Satisfactory 7/28/78)	None	Satisfactory	Randy G. Godwin Individual Notified: J.C. Hyatt Date 7/26/78
2	<u>Waterstop</u> Alignment Inspection 151-50° to 208-1°	Two violations noted. Reported to Foreman and corrected.	None All req'd. waterstop in place. Needs to be tied down prior to concrete placement.	Satisfactory	Randy G. Godwin Individual Notified: J.C. Hyatt Date 8/2/78
3	<u>Waterstop</u> Entire Placement 151-50° to 208-1°	None All work performed in accordance with WP-02.	Final check completed 8/15/78	Satisfactory	Randy G. Godwin Individual Notified: Jim Cathan Date 8/15/78
4					Individual Notified: Date
5				FOR INFORMATION ONLY	Individual Notified: Date

SPK

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

Placement No. ICBSL 216,002

Sheet 1 of 4

Location Unit No. 1 Containment Building

Drawings CAR-2167-G-0610 0611 0612 0613 0614 0617

No.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy D. Gohwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2 inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Date Randy G. Gohwin
3	Elevation 198 ft. Bottom Reinforcing East-West Bars	<u>None</u> All req'd. bars in place.	Five clearance and spacing violations were noted and corrected.	<u>Satisfactory</u>	Frank Collins Satisfactory Individual Notified: 5/8/78 Date Randy G. Gohwin
4	Elevation 204 ft. Bottom Reinforcing Circumferential Bars	<u>None</u> All req'd. bars in place.	Problem with Spacing Tolerance at Cadweld Joint of bars (QA Hold) Corrected AM 6/6/78	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy D. Gohwin
FOR INFORMATION ONLY					
5	Elevation 201 ft. U Bars in Key Way between Containment and Fuel Handling Bldg.	<u>None</u> All req'd. bars in place.	Spacing tolerance and location out on North-South Bars. Problem corrected PM 6/4/78	<u>Satisfactory</u>	Randy G. Gohwin Individual Notified: Frank Collins Date 6/6/78

SPK

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

Placement No. 1CB5L21002

Sheet 2 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	INSPECTOR
1	Elevation <u>204</u> <u>Bottom Mat</u> Circular Bars Radial Bars Const. Joint between <u>151°-50' to 180°</u> Drawg. 0612	To be checked at later date quantity <u>Not complete</u> 6/8/78	outside circular bars, out of tolerance in several areas. Notified Foreman	satisfactory	Randy G. Godwin Individual Notified: Stan Warmbrnd Date: 6/8/78
2	Elevation <u>204</u> <u>Bottom Mat</u> Circular Bars Radial Bars Const. Joint between <u>151°-50' and 180°</u> (Lower Layer of) <u>Lower Mat</u>	None	Several violations noted and corrected 6/12/78.	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date: 6/12/78
3	Elevation <u>204</u> <u>Bottom Mat</u> Circular Bars Radial Bars Const Joint between <u>151°-50' and 180°</u> Lower Layer of <u>Lower Mat</u>	None	All spacing violations corrected and checked out. 6/13/78	satisfactory	Randy G. Godwin Individual Notified: Frank Collins - G.F. Date: 6/13/78
4	Elevation <u>204</u> <u>Bottom Mat</u> <u>Bottom Layer</u> Circum. Bar (<u>0° - 22°</u>)	None	Several areas spacing out of tolerance, reported to Foreman.	satisfactory	Randy G. Godwin Individual Notified: Jim Elliott Date: 7/12/78
5	Elevation <u>204</u> <u>Bottom Mat</u> <u>Bottom Layer</u> Circular Bars (<u>151° 50' - 208° 10'</u>)	None All req'd. bars in place.	Several bars marked which did not meet spacing tolerances. Foreman notified and corrective in progress.	satisfactory SPK	Randy G. Godwin Individual Notified: Frank Collins Date: 7/19/78

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

Placement No. 1CBSL216002

Sheet 3 of 4

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 204 Bottom Mat Bottom Layer Radials (180° - 208° 10')	Several bars not placed as of 7/21/78 <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
2	Elevation 204 Bottom Mat Lower & Upper Layers Circulars & Radials (151°-50' - 208°-10')	<u>None</u> All req'd bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
3	Elevation 210 #18 bars in Reactor Vessel Recess Area North-South Bars East-West Bars (151°-50' - 208°-10')	<u>None</u> All req'd bars in place. 1 additional cad weld needed to eliminate problem with survey stand.	Several areas noted and reported to General Foreman for corrections.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78
4	Elevation 216 Top Mat Bottom Layer Radials & Circulars 151°-50' - 208°-10'	Several bars left out to accommodate wall dowel installation. To be replaced after wall Dowels are set.	Areas need to be lined up and tied down. Reported to General Foreman.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 8/2/78
5	Elevation 216 Top Mat Upper & Lower Layers Radials & Circulars 151°-50' - 208°-10'	<u>see above (4)</u>	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/5/78	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Jim Collier Date 8/5/78

Exhibit 1
17-1

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

Placement No. 1CB5L216002

Sheet 4 of 4

Location Unit No. 1 - Containment Bldg.

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 216</u> Top Mat Radials, Circum, Wall Dowels 151-56' to 208-10'	<u>None</u> All areas checked, and corrections verified.	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> 8/18/78	Satisfactory	Randy G. Corwin Individual Notified: Frank Collins Date 8/18/78
2					Individual Notified: Date
3					Individual Notified: Date
4					Individual Notified: Date
5				SK	Individual Notified: Date

FOR INFORMATION ONLY

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

Placement No. 1CB5L216003

Sheet 1 of 1a

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPLICING VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<p><u>Repair of Waterstop</u> ① Azimuth 270 ± ② Azimuth 320 ± Elevation 204 Waterstop burned during cadweld operation.</p>	<p>Areas are to be chipped out and waterstop replaced by patching. Work <u>Not</u> completed 7/19/78</p>		-	<p>Randy G. Godwin Individual Notified: Jim Lathan Date 7/19/78</p>
2	<p><u>Waterstop</u> Butt Splices 325 ± 200 ± 340 ± 275 ±</p>	<p><u>None</u> All splices made in accordance with WP-12.</p>	<u>None</u>	<u>Satisfactory</u>	<p>Randy G. Godwin Individual Notified: J. C. Hyatt Date 7/21/78</p>
3	<p><u>Waterstop</u> Alignment Inspection 270° - 320°</p>	<p>one area burned by cadwelding. Reported to Superintendent and corrected.</p>	<u>None</u>	<u>Satisfactory</u>	<p>Randy G. Godwin Individual Notified: J. C. Hyatt Date 8/2/78</p>
4	<p><u>Waterstop</u> 204 <u>EM</u> Accidental burning by cadweld operations. 280 ±</p>	<p>Area corrected on 8/8/78. FOR INFORMATION ONLY</p>		<u>Satisfactory</u>	<p>Randy G. Godwin Individual Notified: Jim Lathan Date 8/8/78</p>
5	<p><u>Waterstop</u> Entire Placement 270° - 303°</p>	<p><u>None</u> All work performed in accordance with WP-02.</p>	<p>Final check completed 8/15/78</p>	<u>Satisfactory</u>	<p>Randy G. Godwin Individual Notified: Jim Lathan Date 8/15/78</p>

SRK

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

Placement No. 1CBSL216003

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G-0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 198 ft Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Date Randy G. Godwin
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2 inch min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Randy G. Godwin
3	Elevation 198 Ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel) Recess Area	<u>None</u> All req'd. bars in place	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Date Randy G. Godwin
4	Elevation 204 Ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat 270° - 360°	<u>None</u> All req'd bars in place	Several violations noted and Foreman notified.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Stan Warmbrod Date 6/15/78
5	Elevation 201' Shear Key - U Bars (303° - 270° 191°)	<u>None</u> All req'd bars in place.	Bars not completely tied down. Awaiting circular and radial bar installation.	<u>Satisfactory</u> ETH	Randy G. Godwin Individual Notified: JIM ELLIOTT Date 7/6/78

FOR INFORMATION ONLY

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

Placement No. 1 CBSL 216003

Sheet 2 of 3

Location Unit No 1 Containment Building

Drawings CAR-2167-G- 0610 0611 0612 0613 0614 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation <u>204</u> Bottom Mat Bottom Layer Circular Bars (270° - 0°)	<u>None</u> All req'd. bars in place.	Several bars marked which did not need spacing tolerances. Foreman notified and corrections in progress.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/19/78
2	Elevation <u>204</u> Bottom Mat Bottom Layer Radials (270° - 330°)	Several bars not placed as of 7/21/78 <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
3	ELEVATION <u>204</u> Bottom Mat Reinforcing around Valve Chambers at Azimuth 315°	<u>None</u> All req'd. bars in place.	Several bars violate spacing tolerance. General Foreman was notified.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/26/78
4	Elevation <u>204</u> Bottom Mat Lower & Upper Layers Circular & Radials (270° - 360°)	<u>None</u> All req'd. bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/25/78
5	Elevation <u>210</u> #18 bars in Reactor Vessel Reass Area North-South Bars East-West Bars (270° - 360°)	<u>None</u> All req'd. bars in place. 1 additional cadwell needed to eliminate problem with Survey Stand.	Several areas noted and reported to General Foreman for corrections.	<u>satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78

Exhibit 1
77-1

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

Placement No. 1CB5L216003

Sheet 3 of 3

Location Unit No. 1 Containment Bldg.

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Elevation 216</u> Tip Mat Upper & Lower Layers Radials & Circulars (270° - 303°)	Some bars left out to accommodate wall Dowel installation.	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/8/78	satisfactory	Randy G. Godwin Individual Notified: Jim Cathan Date 8/8/78
2	<u>Elevation 216</u> Cylinder Wall Dowels All Rows 270° - 303°	<u>None</u> All bars in place.	Some Spacing violation noted. Reported to General Foreman 8/15/78	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 8/15/78
3	<u>Elevation 216</u> Shear Truss Bars 270° - 303°	Several bars found to be left out because of support steel. Replaced 8/15/78	<u>None</u> Meets All spacing tolerance.	satisfactory	Randy G. Godwin Individual Notified: JIM Elliott Date 8/15/78
4	<u>Elevation 216</u> Top Mat Radials Circum & Wall Dowels 270° - 303°	<u>None</u> All areas checked and correction verified.	Several areas noted and reported to General Foreman. These were corrected. <u>FINAL CHECK</u> 8/18/78	satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date 8/18/78
5					Individual Notified: Date

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

Placement No. 1 CBSL 216006

Sheet 1 of 2

Location Unit No. 1 Containment Building

NO.	INSPECTION LOCATION	SPlicing VIOLATIONS OR HOLIDAYS	INSTALLATION VIOLATIONS	QUALITY	QC INSPECTOR
1	<u>Waterstop</u> Butt Splices 215° ± 270° ±	<u>None</u> All splices made in accordance with WP-12.	<u>None</u>	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: J. C. Hyatt Date: 7/21/78
2	<u>Waterstop</u> Alignment Inspection 270° - 320° 208-11' - 270°	One area rejected because of minimum 1/8-inch splice ^{not} being performed. Reported to General Freeman and Superintendent and corrected.		<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date: 8/2/78
3	<u>Waterstop</u> Elev. 204 Accidental burning by Cadweld operations 250 ±	Area corrected on 8/8/78		<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date: 8/8/78
4	<u>Waterstop</u> Entire Placement 208-10' - 270°	<u>None</u> All worked performed in accordance with WP-02.	Final check completed 8/15/78	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Jim Lathan Date: 8/15/78
5					Individual Notified: Date:

FOR INFORMATION ONLY

SEA

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

Placement No. 1 CBSL 216 006

Sheet 1 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G-0610 0611 0612 0613 0614 0617

ID.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation 198 ft. Bottom Reinforcing North-South Bars	<u>None</u> All req'd. bars in place.	Two bars checked out of tolerance, but checked out upon correction by field.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/2/78 Randy G. Cochran
2	Elevation 198 ft. Bottom Reinforcing North-South Bars East-West Bars	<u>None</u> All req'd. bars in place.	Clearance between Asbestos board and cadweld was under 1/2". Discussed with Area Engineer decided to tolerate 1/2" or more. Future clearance to be 1/2" min.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 5/5/78 Randy G. Cochran
3	Elevation 198 ft. Bottom Reinf. North-South Bars East-West Bars (Reactor Vessel Recess Area)	<u>None</u> All req'd. bars in place.	A final re-bar inspection was made and all violations corrected.	<u>Satisfactory</u>	Frank Collins General Foreman Individual Notified: 6/6/78 Randy G. Cochran
4	Elevation 204 Ft. Bottom Reinforcing Circular Bars Lower Layer of Lower Mat. 250° - 310°	<u>None</u> All req'd. bars in place.	Several violations noted and Foreman notified.	<u>Satisfactory</u>	Randy G. Cochran Individual Notified: Stan Warmbrodt Date 6/15/78
5	Elevation 201 Shear Key - U Bars (270° - 191°)	<u>None</u> All req'd. bars in place.	Bars not completely tied down. Awaiting circular and radial bar installation.	<u>Satisfactory</u> EJK	Randy G. Cochran Individual Notified: Jim Ellis Date 7/6/78

Exhibit 1
77-11

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

Placement No. ICBSL 216006

Sheet 2 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G- 0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	QC INSPECTOR
1	Elevation <u>204</u> Bottom Mat Bottom Layer Circular Bars (208'10" - 270')	<u>None</u> All req'd. bars in place.	Several bars marked which did not meet spacing tolerance. Foreman notified and corrections in progress.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/17/78
2	Elevation <u>204</u> Bottom Mat Bottom Layer Radials (208'10" - 270')	Several bars not placed as of 7/21/78. <u>Work in Progress</u>	Several areas noted. General Foreman informed.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/21/78
3	Elevation <u>204</u> Bottom Mat Reinforcing around Valve Chambers at Azimuth 225'	<u>None</u> All req'd. bars in place.	Several bars violate spacing tolerance. General Foreman was notified.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/26/78
4	Elevation <u>204</u> Bottom Mat Lower & Upper Layers Circum & Radials (208'10" - 270')	<u>None</u> All req'd. bars in place.	Several areas need to be lined up and tied down. I was assured by General Foreman that this would be complete prior to concrete placement.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/25/78
5	Elevation <u>210</u> #18 bars in Transfer Vessel Access Area North-South Bars East-West Bars (208'10" - 270')	<u>None</u> All req'd. bar in place. additional coldweld needed to eliminate problems with survey stand.	Several areas noted and reported to General Foreman for corrections.	<u>Satisfactory</u>	Randy G. Godwin Individual Notified: Frank Collins Date 7/28/78

Exhibit 1
7-11

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

Placement No. 1 CTBSL 216 006

Sheet 3 of 3

Location Unit No. 1 Containment Building

Drawings CAR-2167-G-0610, 0611, 0612, 0613, 0614, 0617

NO.	INSPECTION LOCATION	QUANTITY VIOLATIONS	SPACING VIOLATIONS	QUALITY	CC INSPECTOR
1	Elevation 216 Top Mat layers Upper & Lower Mat Radials & Circum. (208'-10' - 270')	Some bars left out to accommodate wall Dowel installation.	Spacing tolerances are not being met. Reported to Superintendent and General Foreman. Not corrected as of 8/8/78	Satisfactory	Randy G. Godwin Individual Notified: Jim Lathan Date: 8/8/78
2	Elevation 216 Shear Truss Bars 208'-10' - 270'	Several bars found to be left out because of support steel. Replaced 8/15/78	None All spacing meets tolerance.	Satisfactory	Randy G. Godwin Individual Notified: Jim Elliott Date: 8/15/78
3	Elevation 216 Cylinder Wall Dowels All Rows 208'-10' - 270'	Several bars found None All bars in place.	Some Spacing violations noted. Reported to General Foreman. 8/15/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date: 8/15/78
4	Elevation 216 Top Mat Radials, Circum, & Wall Dowels 208'-10' to 270'	None All areas checked and correction verified.	Several areas noted and reported to General Foreman. These were corrected. FINAL CHECK 8/17/78	Satisfactory	Randy G. Godwin Individual Notified: Frank Collins Date: 8/18/78
5			ONLY		Individual Notified: Date:

FOR INFO

SPK

PLACEMENT NO. 1GB5L216002

LOCATION Unit # 1

Containment Building

CHECKLIST	REMARKS	INITIALS
Defects Repaired (Notified)	(Being Patched) Large Cavity at north V.C.	RGG
Anchor Holes Grouted	Satisfactory	RGG
<u>CURING</u>		
A. Water	✓ Satisfactory	RGG
B. Curing Compound		
C. Ponding	✓ Satisfactory	RGG
D. Burlap (Wet)	✓ Satisfactory	RGG
E. Wet Sand		
F. Polyethylene		
G. Temperature	✓ Satisfactory	RGG
<u>FINISH</u>		
A. Steel Trowel		
B. Wood Float (Ball)	✓ Satisfactory	RGG
C. Broom		
D. Hair Brush		
E. Rubber Float		
Exposed Aggregate	Satisfactory	RGG

FOR INFORMATION ONLY

QC INSPECTOR

Raymond S. Jones

DATE

9/18/78

PRINCIPAL SITE CIVIL ENGINEER

DATE

9/19/78

SPK

FOR INFORMATION ONLY
 FOLLOWS THE FIELD COMPANY
 ABOVE HAVING PROCURED THESE PLANT
 CONCRETE TEST REPORT
 (Procedure CQC-13)

PLANT NO. ICB52216002 DATE 8/17/78 AMBIENT TEMP. 78 °F
 LOCATION # 1 Confinement Bldg. (pump discharge) THERMOMETER NO. M4506
 WEATHER: (✓) CLEAR () OVERCAST () RAIN () OTHER () P. CLAUDY
 () HAZY () FOG

TIME NO.	TIME SAMPLED	ELEVATION TURB. METER	FICKET NO.	SLURP (%)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	WATER ADDED	TEST CYLINDERS			REMARKS
												1 DAY	3 DAY	7 DAY	
22	6:00	10	15381	2 1/2	88	M4506	4.8	M4507A			20				293 Set 1 1565
29	6:25	10	15382	2	85	M4506	5.0	M4507A	142.5	M4507A	20	4850	16610	6370	294 Set 2 1566
25	7:20	10	15389	3	80	M4510	4.7	M4507A	146.5	M4507A	10	4700	5700	5910	295 Set 3 1567
29	7:35	10	15394	3 1/4	82	M4510	5.3	M4507A	144.1	M4507A	0	4460	5800	5580	296 Set 4 1568
26	7:50	10	15399	1 3/4	82	M4510	5.1	M4507A	144.6	M4507A	0	4400	4740	4950	297 Set 5 1569
23	8:20	10	15404	1 3/4	80	M4510	4.8	M4507A	146.4	M4507A	0	4070	5840	5870	298 Set 6 1570
23	8:35	10	15409	2 3/4	82	M4510	5.0	M4507A	141.6	M4507A	0	4210	5920	5980	
30	9:40	10	15414	3	82	M4510	4.8	M4507A							
29	9:50	10	15419	3	82	M4510	4.9	M4507A							
24	10:15	10	15424	2 3/4	82	M4510	4.7	M4507A							
22	10:28	10	15429	2 1/4	80	M4510	4.8	M4507A							
22	11:05	10	15434	1 3/4	80	M4510	4.6	M4507A							

SLURP REQUIRED 4 in.
 AIR REQUIRED 6 in.
 DESIGN MIX # M-56
 DESIGN STRENGTH 4000 psi
 FIELD QC INSPECTOR Rickey Stuckland DATE 8-17-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-15-78

FOR INFORMATION ONLY

FOR USE IN FIELD CHECKS
FOR USE IN FIELD CHECKS
CONCRETE TEST REPORT

PROJECT NO. 1000000000

DATE 8/17/78 - 8/18/78

TEST TYPE: () C, () P, CLOUDY

() OTHER Night
() OTHER Night

AMBIENT TEMP. 76 °F
THERMISTER NO. 114511

TEST NO.	TIME SAMPLED	CYLINDER NO.	SURF. (in.)	LONG. TEMP. (°F)	THERM. AIR NO.	AIR METER NO.	UNIT WT. BUCKET	UNIT WT.	WATER ADDED	TEST CYLINDERS			REMARKS
										7 DAY	3 DAY	DAY	
23	11:30	15440	1 1/2	80	M4510	M4508A	M4508A	141.3	0	4280	5940	6650	299 Set 7 1571
30	11:45	15445	1 3/4	80	M4510	M4508A	M4508A	141.3	0	4320	5320	5310	300 Set 8 1572
28	12:15	15450	2	80	M4510	M4508A	M4508A	141.3	0	4280	5660	5450	*301 Set 9 1573
27	12:45	15455	1 1/2	80	M4510	M4508A	M4508A	141.3	0	4280	5440	5270	302 Set 10 1574
30	1:10	15460	4	80	M4510	M4508A	M4508A	141.9	0	4070	5590	5910	303 Set 11 1515
24	1:25	15465	3 1/4	80	M4510	M4508A	M4508A	141.9	0	3610	5040	5270	304 Set 12 1576
27	1:40	15470	5	80	M4510	M4508A	M4508A	141.9	0				
25	2:00	15475	4	80	M4510	M4508A	M4508A	141.9	0				
24	2:30	15480	2 3/4	80	M4510	M4508A	M4508A	141.9	0				
22	2:45	15485	2 3/4	80	M4510	M4508A	M4508A	141.9	0				
30	3:10	15490	3	80	M4510	M4508A	M4508A	141.9	0				
28	3:35	15495	4 1/4	80	M4510	M4508A	M4508A	141.9	0				

SLUMP REQUIRED 4 in.

AIR REQUIRED 6 in.

DESIGN MIX # M-56

DESIGN STRENGTH 4000 psi.

FIELD QC INSPECTOR

LAB QC INSPECTOR

QA SPECIALIST

DATE 8-17-78

DATE 9-14-78

DATE 9-19-78

Ricky J. Stuchlik

Cathy Youngstrom

Eugene Kelly

FOR INFORMATION ONLY: CAMELION PAPER & LIGHT COMPANY
 SHEARHART'S NUCLEAR PAPER PLANT
 CONCRETE TEST REPORT
 (Procedure CQC-13)

PLACEMENT NO. 21602 DATE 8-18-78
 LOCATION 1st floor (Comp Discharge)
 AMBIENT TEMP. 74 °F
 THERMOMETER NO. 111126

TRUCK NO.	TYP. SAMPLED	INDIVIDUAL TUBES YARDAGE	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS			REMARKS
											7 DAY	28 DAY	DAY	
21	3 1/2	15545	4 1/4	56	111126	2.4	111126	142.4	142.4	0	4000	5620	5730	111126
22	3 1/2	15546	5 3/4	50	111126	4.0	111126	142.4	142.4	0	3680	5200	5310	111126
23	4 1/2	15547	4 1/2	50	111126	6.1	111126	142.4	142.4	0	4360	6010	5840	111126
24	4 1/2	15548	3 3/4	75	111126	6.1	111126	142.4	142.4	0	4780	6190	6230	111126
25	5 1/2	15549	2 1/4	78	111126	5.0	111126	142.4	142.4	0	4320	5730	5550	111126
26	5 1/2	15550	2 1/4	75	111126	5.1	111126	142.4	142.4	0	4320	5910	5660	111126
27	5 1/2	15551	2 3/4	75	111126	4.2	111126	142.4	142.4	0	4320	5910	5660	111126
28	6 1/2	15552	6.0	80	111126	3.3	111126	142.4	142.4	0	4320	5910	5660	111126
29	7 1/2	15553	5.0	79	111126	6.0	111126	142.4	142.4	0	4320	5910	5660	111126
30	7 1/2	15554	4.0	80	111126	6.1	111126	142.4	142.4	0	4320	5910	5660	111126
31	8 1/2	15555	3 1/4	80	111126	6.6	111126	142.4	142.4	12				111126

SLUMP REQUIRED 4 1/2 in.
 AIR REQUIRED 6 1/2 %
 DESIGN MIX # 111126
 DESIGN STRENGTH 111126
 FIELD QC INSPECTOR Ruby Strickland DATE 8-17-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION ONLY;
 E.P.C.
 Rev. 1

CAROLINA FORT. & LIGHT COMPANY
 SHELBOURNE HARBOR NUCLEAR POWER PLANT
 CONCRETE TEST REPORT
 (Procedure CQC-13)

Page 9 of 9

PLACEMENT NO. 16022 DATE 8-18-78
 LOCATION 2-2-666 () OVERCAST () GAIN () OTHER
 AMBIENT TEMP. 70 OF
 THERMOMETER NO. 1585

TRUCK NO.	TYPE SAMPLED	INDIVIDUAL TESTS YARDAGE	BUCKET NO.	SLURP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
											7 DAY	28 DAY	DAY	
21	5 1/2	16	15555	1 3/4	80	15526	5.6	143.1	0	0	4740	6300	6010	311
22	5 1/2	16	15560	1 3/4	86		5.6		0	0				
22	5 1/2	16	15565	2 1/4	84		4.9	143.5	1.2	1.2	4670	6190	6260	312
22	6 1/2	16	15571	3.0	80		6.4		0	0				
23	6 1/2	16	15576	3 1/2	84		6.4	140.6	1.0	1.0	3610	5410	5450	313
24	6 1/2	16	15580	2.0	82		5.7		0	0				
25	6 1/2	16	15585	2 1/4	84		5.6	142.6	1.0	1.0	4490	6050	6300	314
30	6 1/2	16	15590	2 1/2	84		5.7		0	0				
22	6 1/2	16	15595	2 3/4	82		5.2	142.0	0	0	4170	6050	5660	315
30	12 1/2	16	15600	3 1/4	86		5.6		0	0				
22	12 1/2	16	15606	3 1/4	84		6.1	143.9	0	0	4100	5590	5660	316
23	12 1/2	16	15610	4.0	82		6.4		0	0				

SLURP REQUIRED 1 in.
 AIR REQUIRED 1 1/2"
 DESIGN MIX # 12
 DESIGN STRENGTH 5000
 FIELD QC INSPECTOR Ricky Stuckland DATE 8-18-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION ONLY CAROLINA POWER & LIGHT COMPANY
 SHEARON HARRIS NUCLEAR POWER PLANT

CONCRETE TEST REPORT

(Procedure CQC-11)

PLACEMENT NO. 216002

DATE 8-18-78

LOCATION 216002 (PUMP DISCHARGE)

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

AMBIENT TEMP. 90 °F

THERMOMETER NO. 01-4507

TRUCK NO.	TIME SAMPLED	INDIVIDUAL TRUCK VARIANCE	TICKET NO.	SLIP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7 DAY	DAY	DAY	DAY	
												25	2:30		15615	
26	1:30		15620	3 3/4	54		4.4				0					
25	1:30		15625	4.0	52		2.0	146.0	142.8		0	4030	5410	5590	318 1590	
23	2:00		15630	3 3/4	50		6.6				0					
30	1:30		15635	4.0	57		5.9	143.1	142.8		0	3820	5660	5640	319 1591	
26	1:30		15640	2 1/2	56		4.2				0					
30	1:30		15645	2 1/2	55		4.2	143.2	142.8		0	4560	6260	6150	320 1592	
29	2:30		15652	2 1/4	50		4.2				0					
27	2:30		15655	3.0	56		4.6	144.1	142.8		0	3890	5660	5550	321 1593	
29	2:30		15660	3 1/2	50		2.4				0					
28	2:30		15665	3 1/2	52		6.6	143.1	142.8		0	3680	5380	5620	322 1594	
30	4:30		15670	3.0	54	▽	6.0	▽			0					

SLIP REQUIRED 1/2 in.

AIR REQUIRED 2 %

DESIGN MIX # 1126

DESIGN STRENGTH 4500

FIELD QC INSPECTOR Ricky Strickland DATE 8-18-78

LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78

QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION ONLY

CAPITOLA PRODUCTS LIGHT COMPANY
 500 MORE BUREAU BUILDING PAPER PLANT
 CONCRETE TEST REPORT
 (Procedure C-11)

PROJECT NO. 116502 DATE 5/1/25 AMBIENT TEMP. 0°P
 LOCATION ... () OTHER
 () P. CLORBY

CYLINDER NO.	TEMP. SAMPLED	CUBIC FEET	SLAB THICK. (IN.)	CARG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BRICKET	WATER ADDED	TEST CYLINDERS		REMARKS
										7 DAY	28 DAY	
23	72	15625	2 1/4	51	91281	6.2	M4252A	142.8	0	3640	5950	323 1595
23	74	15680	2 3/4	52		5.6			0			
23	74	15685	3 3/4	54		5.2		142.2	0	3230	5970	324 1396
24	75	15650	5.0	85		6.5			0			
28	70	15655	3 1/2	82		6.1		142.9	0	3610	5730	325 1597
29	74	15200	2 3/4	82		5.6			0			
27	60	15205	2 3/4	82		4.0		142.4	0	4240	6190	326 1598
23	70	15210	2.0	82		6.7			0			
25	64	15215	2.0	86		6.5		138.9	0	4000	5800	327 1599
26	63	15220	2 1/2	84		6.1			0			
25	72	15225	2.0	84		5.0		143.4	0	4530	6540	328 1600
22	73	15730	2.0	84		4.1			10			

SLAB REQUIRED 1 IN.
 AIR REQUIRED 6-2
 DESIGN MIX # ...
 DESIGN STRENGTH ...

FIELD QC INSPECTOR Ricky Stuckland DATE 8-18-78
 LAB QC INSPECTOR Cathy Youngstrom DATE 9-14-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION ONLY :

CAROLINA PORTLAND CEMENT LIGHT COMPANY
 500 MORE HARRIS INDUSTRIAL PARK PLACE
 CONCRETE TEST REPORT

PROJECT NO. 31-2-2 DATE 8/12/78 () P. CLOUDY () OTHER Light
 AMBIENT TEMP. _____ °F
 THERMOMETER NO. _____

TUBE NO.	TUBE SAMPLER	CORRECTION FACTOR	FLEET NO.	SLIP (in)	CORG. TEMP. (°F)	THERM. NO.	AIR (-)	AIR METER NO.	UNIT WT. BUCKET	WATER AIDED	TEST CYLINDERS		REMARKS
											7 DAY	28 DAY	
27	8:35	10	15735	1 1/2	84	M4526	5.4	M4528A	142.5		4000	5660	5770 Set 37 1601
29	8:40	10	15740	2 1/4	84	M4526	5.5	M4528A	141.4		4070	5660 5770	5480 Set 38 1602
30	9:10	10	15745	2 1/4	86	M4526	5.6	M4528A	143.1		3710	5660 5480	Set 39 1603
30	9:40	10	15750	3	84	M4526	5.5	M4528A	143.2		4100	5380	5800 Set 40 1604
23	9:30	10	15755	3 3/4	86	M4526	5.4	M4528A	142.3		3750	5890	5620 Set 41 1605
27	9:40	10	15760	2 3/4	82	M4526	5.3	M4528A	143.2		3780	5020	4950 Set 42 1606
24	9:45	10	15765	2 3/4	82	M4526	5.6	M4528A	143.2				
25	10:50	10	15770	2 1/4	82	M4526	5.4	M4528A	143.2				
23	11:15	10	15775	3	84	M4526	5.5	M4528A	143.2				
23	11:55	10	15780	3 3/4	84	M4526	4.0	M4528A	143.2				
22	12:00	10	15785	2 3/4	84	M4526	5.6	M4528A	143.2				
28	12:40	10	15790	3 1/2	80	M4526	5.4	M4528A					

SLIP REQUIRED 1 in.
 AIR REQUIRED 10 1/2
 DESIGN MIX 6 M-5C
 DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Bruce Tropp DATE 8/19/78
 LAB QC INSPECTOR ARW/mft DATE 9-16-78
 QA SPECIALIST Eugene Kelly DATE 9-19-78

FOR INFORMATION OF CALIFORNIA PORTLAND CEMENT LIGHT COMPANY
 SHAW-WALKER NUCLEAR POWER PLANT
 CONCRETE TEST REPORT
 (Procedure COT-11)

PROJECT NO. 155-22 DATE 9/17/78

LOCATION Concrete Bldg. (Group Discharge)

WEATHER () CLEAR () OVERCAST () RAIN () OTHER Light
 () B. () P. CLOUDY

AMBIENT TEMP. 71
 THERMOMETER NO. 205526

TEST NO.	CUBIC FEET SAMPLED	CUBIC FEET YIELD	SLEEVE (IN)	CONG. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS			REMARKS
										7 DAY	28 DAY	DAY	
26	0.50	10	3 3/4	80	224506	5.2	224508A	144.4	0.0508A	3840	5326	5380	335 Set 43 1607
24	0.50	10	3 3/4	84	224506	4.0	224508A	144.4	0.0508A	4300	5610	5550	334 Set 44 1608
28	1.30	10	2 3/4	82	224506	5.1	224508A	143.1	0.0508A	4630	6020	5910	337 Set 45 1609
25	2.00	10	2	80	224506	5.2	224508A	145.9	0.0508A	4550	5770	5770	336 Set 46 1610
30	2.00	10	2	82	224506	4.2	224508A	140.2	0.0508A	4160	5020	5090	339 Set 47 1611
28	2.05	10	2 1/2	80	224506	5.0	224508A						
27	3.00	10	3	80	224506	5.6	224508A						
23	3.35	10	3 3/4	84	224506	4.4	224508A						
25	3.45	10	4 1/4	82	224506	6.0	224508A						
29	4.00	10	4 3/4	81	224506	4.0	224508A						
:													
:													

SLEEVE REQUIRED 4 ± 1 in.

AIR REQUIRED 6 ± 2 %

DESIGN MIX # 11-56

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR

Bucstrop

DATE 8/19/78

LAB QC INSPECTOR

AA Wright

DATE 9-16-78

QA SPECIALIST

Eugene Kelly

DATE 9-15-78

12/77
Rev. 1

FOR INFORMATION ONLY

CAROLINA POWER & LIGHT COMPANY
SHELDON HARRIS NUCLEAR POWER PLANT
CONCRETE TEST REPORT
(Procedure CQC-13)

Page 9 of 9

PLACEMENT NO. 35424002

DATE 8/19/78

LOCATION #1 Reinforcement 13/4

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

AMBIENT TEMP. 71 °F

THERMOMETER NO. m4506

TRUCK NO.	TIME SAMPLED	INDIVIDUAL TRUCK YARDAGE	TICKET NO.	SLUMP (IN)	CONC. TEMP. (°F)	THERM. NO.	AIR (%)	AIR METER NO.	UNIT WT.	UNIT WT. BUCKET	WATER ADDED	TEST CYLINDERS RESULTS				REMARKS
												7DAY	28DAY	28DAY	28DAY	
23	4:30	10	15845	1 3/4	82	m4506	4.2	m4508A	144.8	m4508A		3840	5620	5450	5553	Set 48 1/12
25	4:35	10	15850	2 1/4	80	m4506	5.6	m4508A								
27	5:15	10	15855	3 3/4	82	m4506	5.8	m4508A	143.6	m4508A		3470	5700	5620	5700	Set 49 1/12
24	6:15	10	15860	1 3/4	80	m4506	4.2	m4508A								
:																
:																
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:																
:																
:																
:																
:																
:																
:																

SLUMP REQUIRED 1 ± 1 in.

AIR REQUIRED 6 ± 2 %

DESIGN MIX # m-56

DESIGN STRENGTH 4000 psi

FIELD QC INSPECTOR Bruce T. [Signature]

DATE 8/19/78

LAB QC INSPECTOR H.L. Wright

DATE 9-16-78

QA SPECIALIST Eugene Kelly

DATE 9-19-78

June 29, 1984

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)	
)	
CAROLINA POWER AND LIGHT COMPANY)	Docket No. 50-400 OL
and NORTH CAROLINA EASTERN)	50-401 OL
MUNICIPAL POWER AGENCY)	
)	
(Shearon Harris Nuclear Power)	
Plant, Units 1 and 2))	

CERTIFICATE OF SERVICE

I hereby certify that copies of "Applicants' Response to Eddleman Proposed Contentions 65-A and 65-B" and "Affidavit of Roland M. Parsons" were served this 29th day of June, 1984, by deposit in the U.S. mail, first class, postage prepaid, upon the parties listed on the attached Service List.



Thomas A. Baxter

Date: June 29, 1984

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)
)
CAROLINA POWER & LIGHT COMPANY) Docket Nos. 50-400 OL
and NORTH CAROLINA EASTERN) 50-401 OL
MUNICIPAL POWER AGENCY)
)
(Shearon Harris Nuclear Power)
Plant, Units 1 and 2))

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