

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION IV

IE Inspection Report No. 50-382/76-01

Docket No. 50-382

Licensee: Louisiana Power & Light Company

Category A2

Location: Taft, Louisiana

Facility: Waterford Steam-Electric Station, Unit 3

Type of Licensee: C-E, 1165 MWe PWR

Type of Inspection: Routine, Unannounced

Dates of Inspection: January 7-9, 1976

Dates of Previous Inspection: December 2-5, 1975

Principal Inspector: W. G. Hubacek
W. G. Hubacek, Reactor Inspector

01/20/76
Date

Accompanying Inspectors: None

Reviewed By: W. A. Crossman
W. A. Crossman, Senior Reactor Inspector

1/20/76
Date

8502270185 840820
PDR FOIA
GARDE84-455 PDR

SUMMARY OF FINDINGS

I. Enforcement Action

A. Items of Noncompliance

1. Violations

None

2. Infractions

10 CFR 50, Appendix B, Criterion V states in part, "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings." Additionally, Ebasco Specification LOU 1564.472, "Concrete Masonry," specifies a 5 inch maximum slump for a single batch and a maximum air content of 6½%.

Contrary to the above, during placement No. 4995024 on December 22, 1975:

a. Use of Concrete With Excessive Slump

Two 9 cubic yard loads of concrete with 5½ and 5½ slumps were placed in the common foundation mat. This matter was identified by the licensee. (DETAILS, paragraph 8)

b. Use of Concrete With Excessive Air Content

One 9 cubic yard load of concrete with 7% air content was placed in the common foundation mat. (DETAILS, paragraph 8)

3. Deficiencies

None

II. Licensee Action on Previously Identified Enforcement Matters

1. Violations

None

(continued)

2. Infractions

75-10/2.a Lack of Provision for Inspection Acceptance or Rejection

Ebasco is preparing a revision of procedure QCIP-4, "Control of Concrete Materials and Mixes," which is intended to provide for inspection acceptance or rejection. This matter will remain open pending issuance of the procedure and subsequent review by IE. (DETAILS, paragraph 4)

75-10/2.b Aggregate Sieve Analysis Nonconformance Traceability

Ebasco has issued a discrepancy notice covering aggregate sieve analysis which did not meet specifications and is taking corrective action to provide for identification and disposition of nonconformances detected by tests and inspections. This matter will remain open pending completion of corrective action and subsequent review by IE. (DETAILS, paragraph 4)

75-10/2.c Specification Revisions - Nonconformance with QA Program Requirements

Ebasco has prepared a draft revision to procedure ASP-I-4, "Design Control," relative to documentation of interpretive memoranda by field change requests. A field change request has been initiated to document information contained in the memorandum dated November 24, 1975 which revised Specification LOU 1564.472, "Concrete Masonry," requirements. This matter will remain open pending issuance of revised procedure ASP-I-4 and the completion of processing of the field change request. (DETAILS, paragraph 4)

3. Deficiencies

None

III. New Unresolved Items

None

IV. Status of Previously Identified Unresolved Items

75-04/3 Ebasco Procedure QC-2 - Waterford Steam Electric Station (WSES) PSAR Inconsistency

LP&L has initiated action to resolve the inconsistency between Figure QC-2.3 of Procedure QC-2 and the WSES PSAR. This item will remain open pending resolution of the inconsistency. (DETAILS, paragraph 5)

(continued)

75-07/2 Ebasco NOAPM - Procedure ASP-III-2 Inconsistency

Ebasco is submitting a proposed NOAPM change to NRR for concurrence. This item will remain open pending resolution of the inconsistency. (DETAILS, paragraph 5)

75-10/1 J. A. Jones Procedure W-SITP-7 Slump Requirements

Inasmuch as J. A. Jones is not required to perform slump tests, slump requirements have been deleted from procedure W-SITP-7. This item is closed. (DETAILS, paragraph 5)

75-10/2 QC Inspector Training

Ebasco intends to revise procedure ASP-I-3, "Indoctrination and Training," relative to QC inspector training requirements. This item will remain open pending issuance of the revised procedure and subsequent review of corrective action by IE. (DETAILS, paragraph 5)

V. Design Changes

None

VI. Unusual Occurrences

None

VII. Other Significant Findings

None

VIII. Management Interview

A management interview was held on January 9, 1976 at the conclusion of the inspection to discuss the inspection findings. The following individuals were in attendance:

Louisiana Power & Light Company

A. E. Henderson, Jr., QA Manager
T. F. Gerrets, Project QA Engineer
O. P. Pipkins, QA Engineer
B. M. Toups, QA Engineer
B. P. Brown, QA Engineer
P. V. Prasankumar, Engineer

(continued)

Ebasco Services Incorporated

B. D. Fowler, Senior Resident Engineer
R. A. Hartnett, Acting QA Site Supervisor
B. R. Mazo, Chief QA Engineer
C. V. Diz, Senior Site QA Supervisor
D. N. Galligan, Project QA Engineer
F. R. Howard, Lead QC Engineer

(continued)

DETAILS

1. Principal Persons Contacted

Louisiana Power and Light (LP&L)

A. E. Henderson, Jr., QA Manager
T. F. Gerrets, Project QA Manager
B. P. Brown, QA Engineer
O. P. Pipkins, QA Engineer

Ebasco Services Incorporated (Ebasco)

C. V. Diz, Senior Site QA Supervisor
R. A. Hartnett, Acting QA Site Supervisor
L. Mauerman, QC Training Supervisor

2. Scope of Inspection

The purpose of the inspection was to review quality records related to concrete placement and receipt and storage of the pressurizer and one steam generator. The inspector reviewed site quality assurance and quality control procedures applicable to receipt and storage of materials, observed construction activities in progress and examined responses to previously identified noncompliance and unresolved items.

3. Status of the Project

Design engineering was 93.9% complete and procurement was 62.0% complete as of November 30, 1975. Construction was 2.90% complete as of January 2, 1976. Placement of concrete in strip 1 of the common foundation mat has been completed. Excavation and placement of the shell filter and mud mat have been completed in strips 2 and 3. The first placement of concrete in strip 2 is scheduled for mid-January.

4. Licensee Action on Previously Identified Enforcement Matters

75-10/2.a Lack of Provision for Inspection Acceptance or Rejection

Ebasco is revising Form No. QCIP-4-1, formerly Form QC-24, to include a column to indicate acceptance or rejection. Form No. QCIP-4-1 will be incorporated into a revision of QCIP-4, "Control of Concrete Materials and Mixes," which Ebasco expects to be approved by January 19, 1976. This item remains open.

(continued)

75-10/2.b Aggregate Sieve Analysis Nonconformance Traceability

Ebasco has initiated Discrepancy Notice No. C-18 to cover aggregate sieve analyses reports which did not meet specifications. The reports have been marked so as to refer to the discrepancy notice. Corrective measures include verification of acceptability of analysis before concrete production begins and thorough review by Ebasco QC to identify nonconformances and to document disposition on the reports. This item remains open.

75-10/2.c Specification Revisions - Nonconformance with QA Program Requirements

Field Change Request (FCR) No. CH-26 has been initiated to document the information relative to design mix 14A.6 contained in a memorandum to the Ebasco Project Superintendent dated November 24, 1975. Ebasco has prepared a draft revision of ASP-I-4, "Design Control," which includes a definition of interpretive memoranda and directs that information contained in these memoranda will be documented by FCR's. FCR's are to be controlled in accordance with ASP-III-2, "Site Document Control." The draft revision of ASP-I-4 is expected to be approved by January 19, 1976. This item remains open.

5. Status of Previously Reported Unresolved Items

75-04/3 Ebasco Procedure QC-2 - Waterford Steam Electric Station (WSES) PSAR Inconsistency

LP&L has initiated action to resolve the inconsistency between Ebasco procedure QC-2 and the WSES PSAR which resulted from a change in the Ebasco site organization. A proposed resolution and request for concurrence has been sent to NRR. This item remains open.

75-07/2 Ebasco NOAPM - Procedure ASP-III-2 Inconsistency

The Ebasco New York office is submitting to NRR a proposed NOAPM change that would resolve this inconsistency relative to responsibility for issuance and control of procedures. This item remains open.

75-10/1 J. A. Jones Procedure W-SITP-7 Slump Requirements

J. A. Jones has issued Revision 1 to procedure W-SITP-7 which deletes slump requirements previously contained in paragraph 5.1.2. Inasmuch as J. A. Jones is not responsible for performing slump tests, these requirements were superfluous. This item is closed.

(continued)

75-10/2 QC Inspector Training

The two Ebasco QC inspectors who previously had not completed indoctrination and training requirements in accordance with Ebasco procedure ASP-I-3 have since received the required training. Ebasco plans to revise procedure ASP-I-3 to allow qualified personnel to perform inspections while receiving indoctrination and training. This item remains open.

6. Receipt, Handling and Storage of NSSS Equipment

The pressurizer was received at the site on November 10, 1975. Steam generator No. 1, the first of two steam generators, was placed in temporary storage at a barge site in Houma, Louisiana on November 25, 1975, and on December 31, 1975 was unloaded at the WSES barge facility and placed on crawler transporters for relocation to the NSSS storage area. On December 20, 1975, prior to the unloading, a 720 ton lift test of the lifting frame at the barge unloading facility was completed. The inspector observed some of the activities related to movement of the steam generator into the NSSS storage area. Mechanical breakdown of the crawler transporters caused some delay in the relocation which was still in progress at the termination of the inspection. Examination of the steam generator revealed some damage to the Spraylat protective coating that apparently was caused by handling. Repair to the coating will be required to restore its integrity.

The inspector reviewed the following documents related to receipt, handling and storage of the pressurizer and steam generator.

Ebasco Procedure QCIP-16 "Receiving, Handling and Storage Inspection of NSSS Equipment" Issue B, 12/03/75

Ebasco Procedure ASP-III-14 "Control of Receiving, Handling and Storage" Issue C, 10/13/75

Ebasco Procedure CP-403 "Pressurizer Unloading and Placing into Temporary Storage"

Combustion Engineering (CE) Procedure "Procedure for Field Receiving, Handling, Storage and Installation of Pressurizers Protected with Spraylat Coating"

Ebasco "Material Receiving Inspection Report" No. 75-1952, 11/10/75, for the pressurizer

CE "Certification of Equipment," 10/30/75, for the pressurizer

CE "Manufacturers Data Report for Nuclear Vessels," for the pressurizer

(continued)

Ebasco "Vendor Quality Compliance Report Release for Shipment," for the pressurizer

Ebasco "NSSS Handling Report," 11/10-12/75, for the pressurizer

Ebasco "NSSS Equipment Nitrogen Purge Record," 11/10-11/75, for the pressurizer

CE "Shipping Request," for the pressurizer

Ebasco "Weekly Inert Gas Blanket Report," for the pressurizer and steam generator

Ebasco "Material Receiving Inspection Report," No. 50218, 11/25/75, for the steam generator

Reliance Truce Co. (RT) letter, subject "WSES No. 3 Steam Generator Offload, Haul and Store; Equipment Certification," 12/11/75 with enclosures.

Review of records and storage conditions will continue at a future inspection after the pressurizer and steam generator have been placed in their designated storage locations.

7. Steel Containment Vessel

Mobilization of the steel containment vessel prefabrication area and equipment by Chicago Bridge and Iron (CB&I) was in progress. The welder qualification building and nondestructive examination trailer were set up. Installation of one of two tilt-tables required for prefabrication of sections of the steel containment vessel was completed. Twenty-four pieces of steel containment vessel knuckle plates have been received and unloaded.

8. Concrete Placement Record Review

The inspector reviewed J. A. Jones' and Ebasco's concrete curing records for placement No. 499S01-6, and Ebasco's QC inspection records for placement No. 499S02-4 in the common foundation mat. Review of form QCIP-7-3, "Concrete Test Record" for placement No. 499S02-4 on December 22, 1975, revealed that two 9 cubic yard loads of concrete (batch Nos. 1871 and 1875) with slumps of 5-1/2 and 5-1/4 inches were used which failed to meet requirements of Specification LOU 1564.472, "Concrete Masonry." This specification, Section 10.9, requires that for reinforced foundation walls and footings the single batch maximum slump shall be five inches. The inspector informed the licensee that this is considered an item of noncompliance in that, contrary to 10 CFR 50, Appendix B, Criterion V, which states in part, "Activities affecting quality shall be prescribed by documented instructions,

(continued)

procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings" concrete slumps failed to meet requirements of the specification. This item of noncompliance was identified by the licensee and is documented in Ebasco Nonconformance Report W3-11 initiated January 6, 1976.

Review of form QCIP-7-3 for placement No. 499302-4 also revealed one 9 cubic yard load of concrete which exceeded specification requirements for maximum air content was placed on December 22, 1975. The load, identified by batch ticket No. 1858, had a recorded air content of 7%. Specification LOU 1564.472, "Concrete Masonry," Section 7.8 requires that for concrete utilizing one inch nominal maximum size of coarse aggregate, the total air content by volume shall range from 3- $\frac{1}{2}$ % to 6- $\frac{1}{2}$ %. The inspector informed the licensee that this is considered to be an item of noncompliance in that, contrary to 10 CFR 50, Appendix B, Criterion V, which states in part, "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings" concrete air content failed to meet requirements of the specification. This item of noncompliance was identified by the inspector.

9. LP&L Stop Work Order

On December 16, 1975, LP&L QA issued Stop Work Order (SWO) No. 1 to Ebasco for concrete work performed by Ebasco and J. A. Jones. The stated reason for issuance of the SWO was recurring deficiencies and nonconforming work in the inspection and control of concrete mixing, transporting and placing of concrete and concrete placement, curing and finishing as evidenced by site surveillance reports W3S 75-63S, W3S 75-64S, and Ebasco Quality Assurance Report JG-75-12-2. LP&L released SWO-1 on December 18, 1975, following evaluation of responses to the deficiencies and nonconforming items.

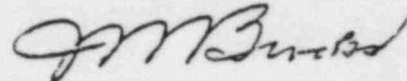
January 2, 1976

M E M O R A N D U M

A E Henderson

WATERFORD SES - UNIT NO 3
STOP WORK ORDER NO 1

Attached for your information is a copy of the notes which I made of the meeting held at LPSL office on December 17, 1975 for resolution of the Stop Work Order placed on concrete work for Waterford Unit 3.



J M Brooks

JMB, ip

cc: J O Booth
R Hartnett
R Hastings
C Griggs

B/17

January 2, 1976

WATERFORD SES - UNIT NO 3
STOP WORK ORDER NO 1
NOTES ON MEETING

A meeting was held with Louisiana Power & Light Company on December 17, 1975 to discuss disposition of items of non-conformance associated with Stop Work Order No 1. Those in attendance at the meeting were as follows:

Louisiana Power & Light Company

R J Meyer
D L Aswell
D B Lester
P V Pransankumar
A E Henderson
T Gerretts
B Hyatt

Ebasco Services Inc

R J Christesen
J O Booth
A A Ferlito
A Wern
C Griggs
R Stampley
J M Brooks
W Sheehan
R Fawcett

The following disposition of Ebasco responses was made:

Site Surveillance Report W3S-75-63S

- 1 & 2 - The Ebasco position is acceptable provided the instructions to Ebasco QC Personnel are in writing indicating the date that the instructions are to be implemented and executed by the responsible individual in Ebasco for implementation.
- 3 - J A Jones is to issue written instructions similar to those defined in Items 1 and 2 for implementation. Also change "will" to "shall" in the response.
- 4 - The response is to be documented by Ebasco referring to the Training Program applicable.
- 5 - Response is O K. A procedure will be developed for controlled distribution of interpretations of specifications. The appropriate QC procedure for document control must be revised.
- 6 - Response accepted. Ebasco will discuss this matter in detail with QA Corporation.
- 7 - J A Jones must write a procedure governing the response to be acceptable.
- 8 - The response should make reference to the Training Course to be acceptable.

B/16

Stop Work Order No 1
Notes of Meeting
January 2, 1976

- 9 - Response acceptable.
- 10 - Response acceptable.
- 11 - Response acceptable.
- 12 - Response acceptable. D L Aswell observed that the language of the J A Jones response would indicate that they are doing their best. J O Booth will discuss this with site management and J M Brooks will discuss J A Jones attitudes with Jack Ferguson, Vice President of J A Jones.
- 13 - The Ebasco check sheet used by QC Inspectors is to be revised to include a check for shrinkage cracks in the pre-placement inspection.

Site Surveillance Report W3S-75-64S

- 1 - Memorandums of interpretation of specifications are to be on controlled distribution as discussed under Item 5 of the preceding report.
- 2 - Response acceptable.
- 3 - Response acceptable.
- 4 - Response acceptable.
- 5 - Response acceptable.
- 6 - Response acceptable.
- 7 - Response acceptable.

Ebasco Quality Assurance Site Audit Summary Report W3QA-230

All items of non-conformance identified on this report must be accepted by Ebasco QA to be acceptable to LP&L.

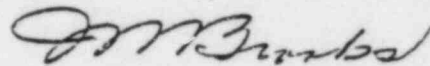
- 4 - LP&L considered the response controversial.
- 5 - LP&L observed that the response appeared to be acceptable.
- 12 - LP&L observed that the response appeared to be acceptable.

Stop Work Order No 1
Notes of Meeting
January 2, 1976

- 13 - J A Jones response must be in the form of written instructions similar to that described in Item 1 on Report W3S-75-63S. Objective evidence of implementation is required.
- 15 - LP&L observed that the response appeared to be acceptable. Ebasco QA has verbally accepted the response.
- 21 - LP&L observed that the response appeared to be acceptable. Ebasco QA has verbally accepted the response.
- 24 - LP&L observed that the response appeared to be acceptable. Ebasco QA has verbally accepted the response.
- 25 - LP&L observed that the response appeared to be acceptable. Ebasco QA has verbally accepted the response.
- 26 - LP&L observed that the response appeared to be acceptable. Ebasco QA has verbally accepted the response.

GENERAL OBSERVATIONS

- 1 - All J A Jones responses and corrective action to non-conformances is to be accepted by Ebasco.
- 2 - Ebasco will be required to have site management conduct audits to see that programs developed for the corrective action are being implemented and adhered to.



J M Brooks

JMB ip

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND MANAGEMENT
DIVISION IV

IX Inspection Report No. 50-352/76-01

Plant No. 50-162

Licensee: Louisiana Power & Light Company

Category A2

Location: Teft, Louisiana

Facility: Waterford Steam Electric Station, Unit 3

Type of Licensee: C-E, 1165 MWe PWR

Type of Inspection: Routine, Unannounced

Dates of Inspection: January 7-9, 1976

Dates of Previous Inspection: December 3-5, 1975

Principal Inspector: W. G. Malacek
W. G. Malacek, Reactor Inspector

1/30/76
Date

Accompanying Inspectors: None

Reviewed By: W. A. Cieslar
W. A. Cieslar, Senior Reactor Inspector

1/20/76
Date

B/18

specifications, or drawings of a type applicable to the fabrications and shall be accomplished in accordance with these instructions, procedures, or drawings" concrete air content failed to meet requirements of the specification. This item of non-compliance was identified by the inspector and is documented in Chicago Memorandum Report 83-11 initiated January 6, 1976.

Review of form QCTP-7-3 for placement of concrete also revealed a 2 cubic yard load of concrete which exceeded specification requirements for maximum air content was placed on December 22, 1975. The load, identified by batch ticket No. 1478, had a measured air content of 7%. Specification 100 1564.472, "Concrete Mixture," Section 7.3 requires that for concrete utilizing coarse aggregate, the total air content by volume shall range from 3-1/2% to 6-1/2%. The inspector informed the licensee that this is considered to be an item of non-compliance in that, contrary to 12 CFR 10, Appendix B, C.12.1(a)(v), all concrete placed, including all fabrications, quality shall be produced by the contractor in accordance with specifications, procedures, or drawings of a type applicable to the fabrications and shall be accomplished in accordance with these instructions, procedures, or drawings" concrete air content failed to meet requirements of the specification. This item of non-compliance was identified by the inspector.

9. 196L Stop Work Order

On December 16, 1975, 196L QA issued Stop Work Order (SNO) No. 1 to Elasco for concrete work performed by Elasco and J. A. [unclear]. The stated reason for issuance of the SNO was performing deficient and nonconforming work in the inspection and control of concrete placement, transporting and placing of concrete and concrete placement, and finishing as evidenced by site inspection reports MS 75-648, MS 75-648, and Elasco Quality Assurance Report C-75-12-2. The SNO was rescinded on December 18, 1975, following correction of work to the deficiencies and nonconforming items.

EBASCO SERVICES
INCORPORATED

UTILITY CONSULTANTS - ENGINEERS - CONSTRUCTORS

P.O. Box 70
Killona, Louisiana 70066

February 23, 1976

W3QA-367

Mr. R.J. Meyer, Vice President
Engineering and Production
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

LOUISIANA POWER AND LIGHT COMPANY
WATERFORD STEAM ELECTRIC STATION
1980 - 1165 MW INSTALLATION - UNIT NO. 3

SUBJECT: PROGRESS REPORT ON THE FINDINGS AND RECOMMENDATIONS OF THE
EVALUATION GROUP ON QUALITY ASSURANCE PROGRAM.

Dear Mr. Meyer:

Please find attached the Progress Report on the working of the Evaluation Group. It had been set up on January 29, 1976, to study the various frequently repeated deficiencies identified by the NRC and Quality Assurance Organizations of LP&L and Ebasco during their audits and surveillances of quality related activities at Waterford Unit No. 3.

This progress report contains several findings and their recommended solutions which this Evaluation Group has made so far.

It is anticipated that in a couple of weeks this Evaluation Group will be able to cover all the remaining areas relating to concrete materials, concrete production and placement.

Very truly yours,

I. Hussain

I. Hussain, Ebasco Quality Assurance Engineer
Evaluation Group Leader

IH/jj
Enc.

cc: A.E. Henderson
R.K. Stampley
L.V. Maurin
B.R. Mazo
C.V. Diz
J.M. Brooks

J.O. Booth
T.F. Gerrets
R.A. Hartnett
W.C. Griggs
D.N. Calligan
B.P. Brown

P.V. Prasankumar
R.F. Vine
F.R. Howard
K.W. Flanagan
W3QA File
Q&S File

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PROGRESS REPORT

1. GENERAL:

Evaluation Group has been formed with representatives of LP&L Q.A. Organization, LP&L Power Production, Ebasco Q.A. Organization, Ebasco Quality Control, Ebasco Field Engineering and Ebasco Construction. The following are the members in the Evaluation Group:

B.P. Brown	LP&L Quality Assurance
P.V. Prasankumar	LP&L Production
I. Hussain	Ebasco Quality Assurance
R.F. Vine	Ebasco Engineering
F.R. Howard	Ebasco Quality Control
K.N. Flanagan	Ebasco Construction

The group members had their first meeting on January 29, 1976 and since then whenever it was possible got together and discussed the various deficiencies identified by the Audits performed by Nuclear Regulatory Commission, LP&L Quality Assurance and Ebasco Quality Assurance. All efforts are made so that the working of this Evaluation Group does not interfere with the work in progress on the project.

2. PURPOSE:

To provide an opportunity to LP&L Quality Assurance, Ebasco Quality Assurance, Ebasco Quality Control, Ebasco Field Engineering and Ebasco Construction to work as a team in understanding the causes of some repeated deficiencies and recommend possible solutions to the management of each organization.

3. SCOPE:

This will include investigations of the applicable specifications, procedures and operations of Quality Control Organizations of Ebasco and Contractors involved with safety related activities. Emphasis will be on activities related to concrete production and placement.

4. GROUP FINDINGS AND RECOMMENDATIONS:

A. Findings:

It was identified that some people were not aware of the Field Change Requests or other deviations made on specifications or drawings. During the evaluation this was obvious because one member of the group had the latest concrete specification with him, but was not aware if any field change request was issued on that specification. On checking, it was observed that a recent field change request had been written, however this information was not conveyed to this member.

Recommendation:

No verbal instruction should ever ride the requirements of specifications. All documented and approved Field Change Requests or other deviation should be attached to the affected specification or drawings. In cases where this may not be practical, a system should be developed for marking the affected portions of specifications or drawings with information that field change request or deviation is existing on that portion.

B. Findings:

It was identified that repeated inconsistencies existed in recording the revolution count and quantity of water added to the truck on batch plant tickets and Q.C. Inspection Forms. One reason for these inconsistencies was the Q.C. Inspectors were recording preliminary information on batch plant tickets which did not coincide with the data on the Q.C. Inspectors Forms.

Recommendation:

Eliminate writing any information not required by procedures or specifications on batch plant tickets or other forms. It is further recommended that Q.A. Corporation be responsible for properly recording all information including the amount of water added at the point of placement. This information should then be verified by Ebasco Q.C. Inspectors.

C. Findings:

It was identified on several occasions that frequency of testing concrete is not being maintained in accordance with codes and specifications. The Group, while evaluating the possible causes for these repeated deficiencies, also talked to personnel supervising the concrete placement and documentation to get first hand information of actual conditions existing on field. Various alternatives for placement of concrete were discussed by the members prior to making this recommendation.

Recommendation:

The existing system of monitoring and documenting frequency of testing is prone to frequent mistakes. This is due to the fact that when there are several points of concrete discharge in a placement, it is difficult to spot the concrete truck on which testing is due. To facilitate monitoring frequency of testing, it is recommended that testing frequency should be based on each point of discharge and the documentation should be kept separate for each point of discharge. Procedures may be revised to incorporate this recommendation.

D. Findings:

It was identified that sampling of concrete is not in compliance with ANSI N 45.2.5, Article 4.8, since sampling was not being done at pump discharge. The committee members discussed various methods on how compliance could be done without physically sampling every time at pump discharge.

Recommendation:

Sampling of concrete for testing should be done at the pump discharge as per ANSI N 45.2.5, Article 4.8, however testing may be done at the truck discharge if adequate co-relation has been established of test results between truck discharge and pump discharge.

E. Findings:

It has been observed that Ebasco Q.C. Personnel are performing the first level of inspections beyond the scope of their responsibilities. This is supposed to be done by J.A. Jones Inspection Personnel. It is also felt that the J.A. Jones Inspection Force is not adequate to perform satisfactory preplacement inspection.

Recommendation:

Ebasco Q.C. should be instructed not to pass out comments on the inspection status of a particular placement in order to allow J.A. Jones Quality Verifications persons to function independently and carry their responsibilities. The purpose is to evaluate whether J.A. Jones Inspection Program can function independently. These comments include only those problems in areas which are basically part of J.A. Jones responsibilities.

F. Findings:

There have been several deficiencies noted stating that out of specification concrete was placed. This was also pointed out by NRC. It is felt that such repeated occurrences of this deficiency can cause problems from NRC and Q.A. Auditors.

Recommendations:

While performing the testing, the concrete truck should not be allowed to discharge after sampling concrete until the test results are available.

In addition, to the above items, there have been other findings whose corrections were relatively easy and the recommendations of the Evaluation Group have already been implemented. This was possible because some of the members of the Evaluation Group are also responsible for those activities where deficiencies were identified. The Group also anticipates that portions of its present recommendations and even some future recommendations may get implemented before the group is able to formally submit its recommendations to the management.



LOUISIANA
POWER & LIGHT/

142 DELARONDE STREET
P. O. BOX 6008

NEW ORLEANS, LOUISIANA 70174

June 4, 1976

LPL 5296
Q-3-A35.02.10
Response Req'd: No

TO: J.O. Booth
Project Superintendent
Ebasco Services Incorporated

FROM: T.F. Gerrets *TFG*
Project Quality Assurance Engineer

SUBJECT: Waterford SES Unit 3
Transmittal of Site Audit Report No. W3S 75-63S Reaudit #1

Attached is a report of the subject reaudit. Corrective action has been evaluated and confirmed and the item is closed.

TFG/yzs

Attachment

cc: R.J. Meyer
D.L. Aswell
A.E. Henderson
L.V. Maurin
Power Production File (2)
J.M. Brooks
R.K. Stampley
D.N. Galligan
T.F. Gerrets
R.A. Hartnett
W.C. Griggs
P.V. Prasankumar
Ebasco Site Engineering File
LP&L Site QA File

B/20

