

QUALITY ASSURANCE PROCEDURE QA - 17

QUALITY ASSURANCE RECORDS

FOR

SEABROOK STATION

PUBLIC SERVICE COMPANY OF
 NEW HAMPSHIRE

J.O. 9763

January 14, 1974

INFORMATION ONLY

Prepared by:

Robert C. Holzwarth

R. C. Holzwarth
 Quality Assurance Engineer

Approved by:

G. F. Cole

G. F. Cole, Project Manager

Approved by:

R. Silverwood

R. Silverwood, Manager
 Reliability & Quality Assurance

No.	Date	Prep. By	QA/Rev.	Appr. By
1	4/18/74	<i>W. J. ...</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	11/1/74	<i>W. J. ...</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	12/6/74	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	10/27/75	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Reissue

Reissue

Revision				Approval	
No.	Date	Page Nos. Revised	Prep. By	Project Manager	Manager R&QA
5	5/10/78	i, ii, 2 & 8 of App. A	<i>Seaman</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	3/1/79	Figure 1 (Page 7)	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	1/2/79	P. 6 of App. A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	1/24/80	App. A - Pgs. 2 thru 14	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	9/9/83	see page ii	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	2/28/85	All	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

QUALITY ASSURANCE PROCEDURE

QA-17

IDENTIFICATION OF CHANGES

<u>Section</u>	<u>Page</u>	<u>Reason</u>
II.B.10	1	Change in Organization
II.C.1	2	Clarification
III.A.1 & 2	2	Change in UE&C Organization
III.A.3	2	Clarification
III.B.1	3	Change "Resident" to "Project" per ACN #168.
III.B.2	3	Change in UE&C Organization
III.C.2	3	Clarification
III.C.4	3	Change in UE&C/QA Responsibility and Scope per ACN #168.
III.C.5	3	Update title
IV.A.2.f	4	Deleted
IV.B.1.b	4	Change in Project Organization
IV.B.2	4	Clarification of retention times for ASME Code activities and other UE&C activities.
IV.D.2	5	Change in UE&C/QA Responsibility and Scope.
IV.E.2.c	6	Change in Project Organization
IV.E.3.A.4	6	Clarification
Figure 1	-	Change in UE&C Scope of Work
Figure 2	-	Delete - Not Required
Appendix A.1	1	Clarification

Appendix A	1	Add Footnote No. 8 due to change in UE&C Scope of Work
Appendix A	2	Change in UE&C Eng. Organization Update list due to change in UE&C Scope of Work
Appendix A	General	UE&C Scope of Work

ACN incorporated in this revision: 168



& Constructors Inc

SUBJECT: QUALITY ASSURANCE RECORDS

REV: 10
DATE: 2/28/85
PAGE 1 of 6I. SCOPE

This procedure describes the control system maintained by UE&C for Quality Assurance Records.

II. GENERALA. Purpose

1. To impose the applicable portions of Standard XVII in the Quality Assurance Manual-Corporate Standards and ANSI N45.2.9 on the project.
2. To define records and documents which are generated or maintained, by UE&C for substantiating conformance to applicable standards, codes, agency or Client requirements. The document sources are shown in Figure 1 along with the controlling record procedures.
3. To establish the measures necessary for control, retention and retrieval of QA records.

B. References

1. Project Administrative Procedures.
2. ANSI N45.2.9 Requirements for Collection, Storage and Maintenance of Quality Assurance Records.
3. QA-7-2 - Control of Purchased Material-Vendor Surveillance.
4. QA-18 - Quality Assurance Audits.
5. QCP-17-1 - Records Review.
6. QCP-17-2 - Quality Assurance Records.
7. Construction Division Standard Guideline Procedure GGCP-2 Drawing Specification & Document Control.
8. General Administrative Procedure GAP 0014 Document Control Center.
9. General Administrative Procedure GAP 0006 Identification, Filing and Retrieval System.
10. New Hampshire Yankee (NHY) Field Quality Control and Audit Group - Record Center Manual.

C. Record Requirements

1. Records shall be identifiable and retrievable, and shall be made available to the Owners or their designated representatives, regulatory agency representatives and the Authorized Inspector, as appropriate.

2. The program is designed to provide for the accumulation and retrieval of the documents contained in the seven part Documentation Requirement List included in Appendix A of ANSI N45.2.9. UE&C has input into only the first five of the seven sections.

- a. Design Records
- b. Vendor Pre-Manufacturing Records
- c. Vendors Manufacturing Records
- d. Procurement Records
- e. Construction Records
- f. Preoperational and Startup Test Records
- g. Maintenance, Modification and Test Records.

D. Definitions

1. QA records - Those records which furnish documentary evidence of the quality of items and of activities affecting quality.
2. Working Files - Uncontrolled documents maintained by the individual or groups so that they can perform their task. Any of these documents which become QA records will be transmitted to the point of access by the originator or responsible engineer.

III. RESPONSIBILITIES

A. Engineering

1. The Project Engineering Manager is responsible for records applicable to design and procurement activities in the Home Office and for interface with the on-site Installers.
2. The Project Administrator is responsible for supervising the overall operation of the Document Control Center in the Home Office. The Records Management Group is responsible for receipt, control, distribution and recall of specifications, drawings, procedures and other documents at the site.
3. Discipline Engineering Managers and Supervising Discipline Engineers are responsible for establishing and maintaining working files for all documentation applicable to their discipline.

B. Construction Manager

1. The Project Construction Manager is responsible for the establishment and maintenance of all UE&C Project Construction Records.

C. Reliability and Quality Assurance

1. R&QA is responsible for auditing the QA records in accordance with QA-18.
2. The Supervising Engineer-Project Quality is responsible for establishing and maintaining Home Office working files for all documentation applicable as required by project QA procedures.
3. The Supervising Engineer-Vendor Surveillance is responsible for establishing and maintaining working files in accordance with QA-7-2.
4. The Project Field QC Manager is responsible for maintaining the site Quality Assurance Master File for receiving, storage, and inspection/surveillance in accordance with QCP-17-2. He is also responsible for maintaining files for records generated as a result of UE&C construction activities.
5. Manager of Audits, Codes and Standards is responsible for auditing QA records program, and establishing and maintaining working files for auditing in accordance with QA-18.

IV. PROCEDURE

A. Records Program

1. UE&C employs a records program which provides for data input, maintenance, updating and retrieval of QA records. The sources of the documents and the controlling procedures are shown in Figure 1.
2. A list of quality-related documents for safety-related activities that will be generated, collected and maintained by the Project is shown on Appendix A. This list:

- a. identifies documents by type
- b. identifies the originator
- c. designates the storage location
- d. designates the form and time for turnover
- e. identifies the document as "lifetime" or "nonpermanent"

B. Record Categories

1. QA Records are categorized as "lifetime" or "nonpermanent" jointly by the originating organization and Reliability & Quality Assurance (See Appendix A).
 - a. Lifetime records are those which meeting one or more of following criteria and would be of significant value in:
 - 1) demonstrating capability for safe operation.
 - 2) maintaining, reworking, repairing, replacing or modifying the item.
 - 3) determining the cause of an accident or malfunction of the item.
 - 4) providing the required baseline data for in-service inspection.
 - b. Lifetime records shall be maintained (by UE&C up through Turnover and NHY thereafter) for the life of the item while it is installed in the plant or stored for future use.
 - c. Nonpermanent records are those having no significant value in the areas noted above. Nonpermanent records shall provide evidence that an activity was performed in accordance with applicable requirements and will be retained as a minimum for periods as identified in Appendix A. The time period starts at the commercial operation of the plant.
2. Retention times of QA Records generated from ASME activities and of QA Records generated from other activities vary. The times noted in Appendix A of this procedure indicate the longer

retention time required by ANSI 45.2.9 or UE&C ASME Nuclear QA Manual.

C. Project Document Control Center

1. Power Division Standard GAP-0014 shall be followed in maintaining these QA records.
2. Project records of design and procurement activities shall be identifiable to the items covered and shall be retrievable. Design and procurement records typically include drawings, specifications, calculations, stress reports, evidence of design verification, vendor submittals (procedures and manufacturing records), procurement documents and related correspondence.
3. All "Final" (reviewed, approved and issued) hard copies of QA records shall be submitted for microfilming. Other QA records identified by Supervising Discipline Engineers as being sufficiently important to warrant copying shall also be microfilmed.
4. The disposition of hard copies of QA records after micro-filming shall be dependent upon agreements reached with the Owner on the form of the permanent record files and other related considerations.

D. Construction Office Building

1. Construction Procedure for Drawing, Specification & Document Control and QCP-17-2, shall be followed for maintaining the records identified as COB in Appendix A.
2. QCP-17-2 shall be followed for maintaining the QA records identified as Site QA/COB point of access in Appendix A.

E. Document Storage Requirements (Protective Measures)

1. Project Files

- a. UE&C Project records shall be maintained in duplicate files stored in separate locations. These records may be retained as microfilm or hard copy or a combination of these. Duplicates of the microfilm copies of records are maintained in the Record Retention Room of the Reproduction Department. Before microfilming, the documents shall be reviewed for completeness, legibility and identification in accordance with procedure GAP-0014.

- b. Records shall be firmly attached in binders, or placed in folders or envelopes. To the greatest extent practicable, steel file cabinets shall be used to store documents and microfilm. Records sent to inactive storage shall be placed in cardboard boxes.
 - c. Special process records such as photographs, negatives and microfilm shall be packaged and stored in accordance with manufacturer's recommended practices for these record forms.
2. Construction Site Permanent Records Facility
- a. The record facility used during construction shall be as provided by the Owner and shall meet the requirements of N45.2.9.
 - b. The method for receipt, review, filing and access to the permanent site records including microfilm and radiographs are described in QCP-17-1 and QCP-17-2.
 - c. Turnover of records to the Owner at the Seabrook Yankee-Document Control Center shall be in accordance with Appendix A and QCP-17-2.
3. Security
- a. Each organization responsible for generating, receiving and accumulating records shall also be responsible for preserving them by preventing the entry of unauthorized personnel into the files. The following personnel are authorized access to Project Engineering files:
 - 1) Project Manager
 - 2) Project Engineering Manager
 - 3) Project Administrators
 - 4) Project Discipline Engineering Managers/Supervisors
 - 5) Project Engineer and Engineer Design Supervisors
 - 6) Project Clerks and Secretaries.
- Access to records at construction site shall be controlled by Quality Control Procedure QCP-17-2.
- b. Provisions shall be provided for securing the records facility when it is left unattended.

DOCUMENT FLOW & DISPOSITION

ACTIVITY	UE & C		WESTINGHOUSE NSSS	SEABROOK YANBEE DCC	SUBCONTRACTORS	CONTROLLING RECORDS PROCEDURES
	ENGINEER & ARCHT	CONSTRUCTION MANAGER				
UE & C ENG. & DESIGN DOCUMENTS	ORIGINAL DOCUMENTS	HARD COPIES & MICROFILM (CON- STRUCTION FILE)	-----	HARD COPIES & MICROFILM (NORMAL PROJECT DIST)	HARD COPIES NEEDED TO DO JOB	GAP-0014 QA-17
SITE DATA PACKAGE RECEIVED FOR EQUIPMENT	COPY FOR INFO	HARD COPIES FOR REVIEW & TURNOVER (MASTER QA FILE)	-----	HARD COPIES TURNED OVER BY C M	-----	QCP-17-2
WESTINGHOUSE QUALITY RELEASE FOR NSSS EQUIP	-----	HARD COPIES FOR REVIEW & TURNOVER (MASTER QA FILE)	ORIGINAL COPY	HARD COPY TURNED OVER BY C M	-----	QCP-17-2
WESTINGHOUSE DOCUMENT PACKAGE FOR NSSS EQUIP	-----	-----	ORIGINAL COPY	HARD COPIES & MICROFILM TURNED OVER BY NSSS	-----	YAEQ PROCEDURE (WESTINGHOUSE QA PROCEDURES)
SUBCONTRACTOR SITE CONSTRUCTION RECORDS - CIVIL / STRUCTURAL	SUBMITTALS REQUIRED BY SPECIFICATIONS	HARD COPIES FOR REVIEW AS REQUIRED FOR CONSTRUCTION REPORT	-----	HARD COPIES TURNED OVER BY SUBCONTRACTORS	ORIGINALS	QCP-17-2 (SITE CONTRACTOR QC PROCEDURES)
SUBCONTRACTOR SITE CONSTRUCTION RECORD - ALL OTHER	SUBMITTALS REQUIRED BY SPECIFICATIONS	SUBMITTALS REQUIRED BY SPECIFICATIONS	-----	HARD COPY TURNED OVER BY SUBCONTRACTOR	ORIGINALS	YAEQ PROCEDURE (SITE CONTRACTOR QC PROCEDURES)
UE & C CONSTRUCTION DOCUMENTS	-----	INITIATED BY CONSTRUCTION	-----	ORIGINALS TURNED OVER BY CONSTRUCTION	-----	QCP-17-1
UE & C QA / QC DOCUMENTS	-----	-----	-----	ORIGINALS TURNED OVER BY QA / QC	-----	QCP-17-1

SEABROOK
NEP 1 & 2
MNPS
QA-17
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FIGURE 1

APPENDIX A

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FOOTNOTES

1. Point of Access

DCC - Document Control Center
FP - Foreign Print Control Center
COB - Construction Office Building
CCC - Assigned Calculation Control Center

2. Turnover to Owner prior to commercial operation.
3. Turnover to Owner is part of the normal distribution as the records are generated.
4. File requirements at site are lifetime storage(L) and 0, 1, 2, 5 years of storage after commercial operation.
5. Copies for permanent records to be supplied by Owner.
6. Alpha-numeric designation from Owner Field Quality Control and Audit Group-Record Center Manual.
7. These procedures will be submitted to engineering for review and comment; or approval as required by the UE&C specification. At the same time a copy of the procedures will be submitted to Owner.
8. Originator will be contractor or the applicable UE&C Discipline when the work activity is within UE&C's scope of work.

APPENDIX A

SEABROOK STATION

DOCUMENT RETENTION REQUIREMENT

<u>LIST A</u>		(1)		(4)
<u>DESIGN RECORDS</u>	<u>ORIGINATOR</u>	<u>PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u>
Applicable Codes and Standards Used in Design	Eng.	UE&C Library	Index List(2)	L (5)
Design Calculations and Record of Checks	Eng.	CCC	Microfiche(3)	L
Design Change Requests	Vendor/Eng.	DCC	Microfiche(3)	1
Design Deviations	R&QA	DCC	Microfiche(3)	L
Design Procedures and Manuals	Eng.	DCC	Microfiche(3)	3
Design Reports	Eng.	DCC	Microfiche(3)	L
Design Review Reports	Eng.	DCC	Microfiche(3)	1
Drawings	Eng.	DCC Originals	Microfiche(3)	L
Drawing Control Procedures	Eng.	DCC	Microfiche(3)	2
Purchase and Design Specifications & Amendments	Eng.	DCC	Microfiche(3)	L

APPENDIX A (Cont'd)

LIST A (Continued)

<u>DESIGN RECORDS</u>	<u>ORIGINATOR</u>	<u>PT. OF ACCESS</u> (1)	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u> (4)
QA System Audit Reports	R&QA	DCC	Microfiche(3)	6
Safety Analysis Report	Safety Licensing Eng.	DCC	Hard Copies(3)	L
Stress Reports	Eng.	DCC	Microfiche(3)	L
Systems Descriptions	Eng.	DCC	Microfiche(3)	L
Systems Process and Instrumentation Diagrams	Eng.	DCC	Microfiche(3)	L
Technical Analysis, Evaluations and Reports	Eng.	DCC	Microfiche(3)	L
Reconciliation of Drawings to Stress Reports	Eng.	DCC	Microfiche(3)	L
Overpressure Protection Report or Analysis	Eng.	DCC	Microfiche(3)	L

APPENDIX A (Cont'd)

LIST B

<u>VENDOR PRE-MANUFACTURING RECORD REQUIREMENTS</u>	<u>ORIGINATOR</u>	<u>(1) PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>(4) FILE REQ'T</u>
Supplier's QA Program Manual (and QC Procedures)	Vendor	FP	Hard Copies(2)	2
Cleaning Procedures	Vendor	FP	Microfiche(2)	0
Eddy-Current Test Procedures	Vendor	FP	Microfiche(2)	0
Ferrite Test Procedures	Vendor	FP	Microfiche(2)	0
Heat Treat Procedures	Vendor	FP	Microfiche(2)	0
Hot Bending Procedure	Vendor	FP	Microfiche(2)	0
Liquid Penetrant Inspection Procedure	Vendor	FP	Microfiche(2)	0
Magnetic Particle Inspection Procedure	Vendor	FP	Microfiche(2)	0
Packaging, Receiving, Storage Procedure	Vendor	FP	Microfiche(2)	0
Performance Test Procedure	Vendor	FP	Microfiche(2)	0
Pressure Test Procedure	Vendor	FP	Microfiche(2)	0

APPENDIX A (Cont'd)

LIST B (Continued)

<u>VENDOR PRE-MANUFACTURING RECORD REQUIREMENTS</u>	<u>ORIGINATOR</u>	(1) <u>PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	(4) <u>FILE REQ'T</u>
Test Equipment Calibration Procedure	Vendor	FP	Microfiche(2)	0
Radiographic Inspection Procedure	Vendor	FP	Microfiche(2)	0
Ultrasonic Inspection Procedure	Vendor	FP	Microfiche(2)	0
Weld Material Control Procedure	Vendor	FP	Microfiche(2)	2
Welding Procedures	Vendor	FP	Microfiche(2)	L
Welding Procedure Qualification & Data Reports	Vendor	FP	Microfiche(2)	2
Welding Personnel Qualifications	Vendor	Vendor	Microfiche(2)	2
Detailed Inspection Plan	Vendor	FP	Microfiche(2)	L
Certificate of Authorization	Vendor	FP	Microfiche(2)	L

APPENDIX A (Cont'd)

LIST C

<u>VENDORS MANUFACTURING RECORDS</u>	<u>ORIGINATOR</u>	<u>(1) PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>(4) FILE REQ'T</u>
Applicable Code Data Reports	Vendor	COB	Hard Copies(3)	L
As-Built Drawings and Records	Vendor	FP	Aperture Cards(2)	L
Certificate of Inspection and Test Personnel Qualification	Vendor	Vendor	NA	0
Certificates of Compliance	Vendor	COB	Hard Copies(3)	L
Eddy-Current Examination Results	Vendor	COB	Hard Copies(3)	L
Electrical Control Verification & Test Results	Vendor	COB	Hard Copies (3)	L
Ferrite Test Results	Vendor	COB	Hard Copies (3)	L
Heat Treatment Records	Vendor	COB	Hard Copies(3)	L
Liquid Penetrant Examination Results	Vendor	COB	Hard Copies(3)	L
Magnetic Particle Examination Results	Vendor	COB	Hard Copies(3)	L
Major Defect Repair Records	Vendor	COB	Hard Copies(3)	L

APPENDIX A (Cont'd)

LIST C (Cont'd)

<u>VENDORS MANUFACTURING RECORDS</u>	<u>ORIGINATOR</u>	<u>(1) PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>(4) FILE REQ'T</u>
Material Properties Records	Vendor	COB	Hard Copies(3)	L
Nonconformance to Procurement Documents	Vendor	COB/DCC	Hard Copies(3)/ Microfiche	L
Performance Test Records	Vendor	COB	Hard Copies(3)	L
Pipe and Fitting Location Report	Vendor	COB	Hard Copies(3)	L
User Tensile Test Reports of Reinforcing Steel	Vendor	COB	Hard Copies(2)	1
Pressure Test Results (including Hydrotest)	Vendor	COB	Hard Copies(3)	L
Test Equipment Calibration Records	Vendor	Vendor	NA	Until Recal.
QA System Audit Report	R&QA	DCC	Microfiche(3)	6
Radiographs, Review Forms	Vendor	COB	Hard Copies(3)	L
Ultrasonic Examination Results	Vendor	COB	Hard Copies(3)	L
Welding Filler Metal Reports	Vendor	COB	Hard Copies(3)	L

APPENDIX A (Cont'd)

LIST C (Cont'd)

<u>VENDORS MANUFACTURING RECORDS</u>	<u>ORIGINATOR</u>	(1) <u>PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	(4) <u>FILE REQ'T</u>
Final Inspection Reports and Releases	Vendor	COB	Hard Copies(3)	L
Vendor QA Releases	Vendor	COB	Hard Copies(3)	L

APPENDIX A (Cont'd)

LIST D

<u>PROCUREMENT RECORDS</u>	<u>ORIGINATOR</u>	<u>PT. OF ACCESS</u> (1)	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u> (4)
Purchaser's Pre-Award Quality Assurance Survey	R&QA	DCC	Microfiche(3)	2
Pre-Award Meeting Minutes	Purchasing	DCC	Microfiche(3)	2
Procurement Procedures	Purchasing	DCC	Microfiche(3)	3
Procurement Specification	Purchasing	DCC	Microfiche(3)	L
Purchase Order Including Amendments	Purchasing	Purchasing	Microfiche(3)	L
Audit Reports	R&QA	DCC	Microfiche(3)	6

APPENDIX A (Cont'd)

LIST E (typical)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR(8)</u>	<u>PT. OF ACCESS</u> (1)	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u> (4)
<u>Receiving and Storage</u>				
Inspection Reports for Stored Items	Field QC	Site QA/COB	Hard Copies(2)	0
Nonconformance Reports	Field QC	Site QA/COB	Hard Copies(2)	L
Receipt Inspection Reports on Items	Field QC	Site QA/COB	Hard Copies(2)	1
Receiving and Storage Inspection Procedures	Field QC	Site QA/COB	Hard Copies(2)	2
Storage Inventory and Issuance Records	Field QC	Site QA/COB	Hard Copies(2)	0
Vendor Surveillance Releases	Vendor Surv.	Site QA/COB	Hard Copies(2)	0
<u>Civil</u>				
Admixture Test Reports	Contractor	Site QA/COB	Hard Copies(2)	L
Aggregate Test Reports	Test Lab.	DCC	Microfiche	1
Batch Plant Operation Reports	Contractor/UE&C	Site QA/COB	Hard Copies(2)	1
Cement Grab Sample Reports	Test Lab.	DCC	Microfiche	0

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR(8)</u>	<u>PT. OF ACCESS</u> (1)	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u> (4)
Concrete Cylinder Test Reports and Charts	Test Lab.	Site QA/COB	Hard Copies(2)	L
Concrete Mix Design Reports	Test Lab.	DCC	Microfiche	L
Concrete Placement Records	Contractor/UE&C	Site QA/COB	Hard Copies(2)	L
Inspection Reports for Channel Pressure Tests	Contractor/UE&C	Site QA/COB	Hard Copies(2)	L
Material Property Reports on Containment Liner and Accessories	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Metal Containment Shell and Accessories	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Reinforcing Steel	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Reinforcing Steel Splice Sleeve Material	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Steel Embedments in Concrete	Vendor	Site QA/COB	Hard Copies(3)	L

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR(8)</u>	(1) <u>PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	(4) <u>FILE REQ'T</u>
Material Property Reports on Steel Piling	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Structural Steel and Bolting	Vendor	Site QA/COB	Hard Copies(3)	L
Material Property Reports on Tendon Fabrication Material	Vendor	Site QA/COB	Hard Copies(3)	L
Mix Water & Ice Chemical Analysis	Test Lab.	Site QA/COB/DCC	Hard Copies(3)/ Microfiche	1
Mixer Uniformity Test Reports	Contractor/UE&C	Site QA/COB	Hard Copies(3)	L
Pile Drive Log	Contractor/UE&C	Site QA/COB	Hard Copies(3)	L
Pile Loading Test Reports	Contractor/UE&C	Site QA/COB	Hard Copies(3)	L
Procedure for Containment Vessel Pressure-proof Test and Leak Rate Tests and Results	Contractor/UE&C	Site QA/COB	Hard Copies(3)	L
Reinforcing Steel Splice Operator Qualification Reports	Contractor/UE&C	Site QA/COB	Hard Copies(2)	0
Releases to Place Concrete	Contractor/UE&C	Site QA/COB	Hard Copies(2)	0
Reports of High-Strength Bolt Torque Testing	Contractor/UE&C	Site QA/COB	Hard Copies(2)	1

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR</u>	(1) <u>PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	(4) <u>FILE REQ'T</u>
Slump Test Results	Test Lab.	Site QA/COB	Hard Copies(2)	0
Soil Compaction Test Reports	Test Lab.	Site QA/COB	Hard Copies(2)	L
User's Tensile Test Reports on Reinforcing Steel Splices	Test Lab.	Site QA/COB	Hard Copies(2)	1

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>PT. OF ACCESS (1)</u>	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T (4)</u>
<u>Welding (7)</u>				
Ferrite Test Procedure	UE&C/Contractor	COB/FP	Microfiche(2)	2
Ferrite Test Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Heat Treatment Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	0
Heat Treatment Records	UE&C/Contractor	COB/FP	Microfiche(2)	L
Liquid Penetrant Test Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	2
Liquid Penetrant Test Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Magnetic Particle Test Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	2
Magnetic Particle Test Final Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Major Weld Repair Procedures & Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Radiographic Test Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	2

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>PT. OF ACCESS (1)</u>	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T (4)</u>
Radiographic Test Final Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Ultrasonic Test Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	2
Ultrasonic Test Final Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Weld Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	L
Weld Procedures Qualifications and Results	UE&C/Contractor	COB/FP	Microfiche(2)	2
Welding Filler Metal Material Reports	UE&C/Contractor	COB/FP	Microfiche(2)	L
Welding Material Control Procedures	UE&C/Contractor	COB/FP	Microfiche(2)	2
Welding Personnel Qualifications	UE&C	COB	Microfiche(2)	2
Welding Process Sheets	UE&C	COB	Microfiche(2)	L
<u>Mechanical (7)</u>				
Cleaning Procedures & Results	UE&C/Contractor	COB/FP	Microfiche(2)	1
Chemical Composition User's Test (Grab Samples) for Thermal Insulation	Contractor	FP	Microfiche(2)	1

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>(1) PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>(4) FILE REQ'T</u>
Chemical Tests of Water Used for Mixing Insulation Cement	Contractor	FP	Microfiche(2)	1
Code Data Reports	UE&C/Contractor	COB/FP	Microfiche(2)	L
Construction Lifting and Handling Equipment Test Procedures, Inspection and Test Data	UE&C/Contractor	FP	Microfiche(2)	0
Erection Procedures for Mechanical Components	UE&C/Contractor	FP	Microfiche(2)	1
Hydro-Test Procedures and Results	UE&C/Contractor	COB/FP	Microfiche(2)	L
Installed Lifting and Handling Equipment Procedures, Inspection and Test Data	UE&C/Contractor	FP	Microfiche(2)	L
Lubrication Procedures	UE&C/Contractor	FP	Microfiche(2)	L
Lubrication Results	UE&C/Contractor	FP	Microfiche(2)	6
Material Property Records	UE&C/Contractor	COB/FP	Microfiche(2)	L
Material Property Test Reports for Thermal Insulation	UE&C/Contractor	FP	Microfiche(2)	L
Pipe and Fitting Location Reports	UE&C/Contractor	COB/FP	Microfiche(2)	L

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>PT. OF ACCESS (1)</u>	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T (4)</u>
Pipe and Fittings Material Property Reports	UE&C/Contractor	COB/FP	Microfiche(2)	L
Pipe Hanger and Restraint Data	UE&C/Contractor	COB/FP	Microfiche(2)	L
Safety Valve Response Test Procedures	Contractor	FP	Microfiche(2)	L
Safety Valve Response Test Results	Contractor	FP	Microfiche(2)	6
<u>Electrical and I & C (7)</u>				
Cable Pulling Procedures	UE&C	COB	Microfiche(2)	0
Cable Separation Check Lists	UE&C	COB	Microfiche(2)	1
Cable Splicing Procedures	UE&C	COB	Microfiche(2)	L
Cable Terminating Procedures	UE&C	COB	Microfiche(2)	L
Certified Cable Test Reports	UE&C	COB	Microfiche(2)	L
Documentation of Testing Performed After Installation and Prior to Systems Conditional Acceptance	UE&C	COB	Microfiche(2)	2
Field Workmanship Checklist or Equivalent Logs	UE&C	COB	Microfiche(2)	1

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>(1) PT. OF ACCESS</u>	<u>TURNOVER TO OWNER</u>	<u>(4) FILE REQ'T</u>
Instrument Calibration Results	UE&C	COB	Microfiche(2)	Until Recal.
Relay Test Procedures and Results	UE&C	COB	Microfiche(2)	L
Reports of Pre-Installation Tests	UE&C	COB	Microfiche(2)	2
Voltage Breakdown Tests on Liquid Insulation	UE&C	COB	Microfiche(2)	L
<u>General</u>				
As-Built Drawing and Record	Contractor/Eng.	DCC	Aperture Card(3)	L
Calibration of Measuring and Test (7) Equipment and Instruments Procedure	UE&C/Contractor	FP	Microfiche(2)	Until Recal.
Certificate of Inspection and Test Personnel Qualification	UE&C/Contractor	FP	Microfiche(2)	3
Field Quality Assurance Manual	UE&C/Contractor	DCC/FP	Microfiche(2)	3
Final Inspection Reports and Releases	R&QA/Contractor	DCC	Microfiche(2)	L
Nonconformance Reports	R&QA/Contractor	DCC	Microfiche(2)	L
Process Sheets/Activity Planners	UE&C/Contractor	COB	Microfiche(2)	L

APPENDIX A (Cont'd)

LIST E (Cont'd)

<u>CONSTRUCTION RECORDS</u>	<u>ORIGINATOR (8)</u>	<u>PT. OF ACCESS</u> (1)	<u>TURNOVER TO OWNER</u>	<u>FILE REQ'T</u> (4)
Special Tool Calibration Records	UE&C	COB/FP	Microfiche(2)	Until Recal.
Specifications and Drawings	UE&C/Contractor	COB/FP	Microfiche(2)	L
UE&C Audit Reports	R&QA	DCC	Microfiche(2)	6