ENCLOSURE 1

WATTS BAR NUCLEAR PLANT

QA RECORDS PROJECT

STATUS REPORT

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QA RECORDS PROJECT
STATUS REPORT

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I. EXECUTIVE SUMMARY

The QA Records Corrective Action Program (CAP) Project is performing record quality reviews, hardware reviews, and technical content reviews of WBN records. Examples of WBN elements are HVAC duct supports, valves, and electrical cable. Record Completion Teams (RCTs) have been established, by discipline within the QA Records Project, to provide ownership of the various record reviews. The RCTs are developing Record Plans for each element to denote the critical attributes being addressed, the essential records relied upon for licensing, and references to aid in the retrieval of these records. The RCT results will be documented in closure packages which provide input to the QA Records CAP Final Report.

The initial reviews for record quality are complete for 186 QA record types that apply to WBN. These reviews focused on retrievability, completeness, and administrative type record attributes such as legibility, and methods of making changes on records. Initial hardware reviews are also essentially complete for the various plant elements covering approximately 1157 individual components. The purpose of these hardware reviews was to verify that the records accurately reflect the actual physical installation. The principle remaining activity for the RCTs involves performing technical content record reviews to assure that design output requirements and specifications are adequately translated into the final QA records for plant hardware.

Results of project record reviews to date are summarized as follows:

- Resolutions of record quality deficiencies have been developed and implementation is in process. Results to date indicate that many records can be retrieved with extreme difficulty. This has led to corrective actions to improve the records management and indexing system. Resolutions for missing records typically involved use of alternate records to demonstrate qualification and make them readily retrievable.

- Typical hardware discrepancies involved as-installed configurations that did not conform to the latest design output, and miscellaneous construction quality discrepancies. Resolutions were developed to demonstrate that special corrective action programs (CAPs, SPs, etc.) provided alternate or supplemental records. Results to date indicate that with few exceptions there are no problems that significantly effect hardware that are not already enveloped by resolutions in CAPs and Special Programs.

- Retrievability of original inspection records is a problem in the conduit support area. The critical conduit support attributes were determined to be effectively covered by CAP and other special corrective action programs. These recent programs produce records that will be the supplemental or alternate records providing evidence of the qualification of the hardware.

II. PROJECT OVERVIEW

In order to provide a status of QA Records Project reviews and to present the methods in use to resolve identified records problems, this summary report has been prepared. Future reports of a similar nature will be prepared, as necessary, to provide information about program results and the methods used by the project for resolution of problems.

Records Completion Teams (RCTs) have been established to integrate the review and resolution activities of the CAP and are responsible for assuring the adequacy of record end products within their disciplines. The RCT results are documented in closure packages through which the CAP will be managed to completion.

The QA Records Project has completed initial reviews for records quality, sample reviews of workplans and maintenance requests (MRs), and initial reviews (reinspections) of hardware elements. The principle remaining work involves the completion of technical content reviews. In addition, further sampling will be carried out as necessary to comply with the revised sampling methodology described in the QA Records CAP, Revision 5, or to carry out extent of condition evaluations.

With much of the review work completed, considerable effort is now being expended on the development and implementation of resolutions for the identified problems. These resolutions are developed in accordance with the requirements and guidelines stipulated in the QA Records CAP. The QA Records CAP provides options for handling the resolution of problems depending on a number of factors, including the significance of the record involved and the existence of special corrective action programs; e.g., CAPs and Special Programs (SPs) which relate to the component or activity that produced the record.

A. QA Records CAP - Methods for Problem Resolution

The QA Records CAP Section 4.3.1 provides several options for the resolution of records deficiencies. These options, listed below, are implemented in a manner consistent with the purpose and significance of the deficient records.

- Retrieval of information from alternative and/or redundant source documents which attest to or substantiate the quality of the feature.
- Use of information generated by WBN programs (including other CAPs and SPs) that provide new or superseding information.
- Use of testing and other performance data.
- Use of reinspection, retesting, reanalysis, rework, or replacement of the plant feature in accordance with the current QA program.

The QA Records CAP Section 4.3.2 provides the guidelines listed below for applying these resolution options depending on the significance of the deficient records. The guidelines are listed in descending order of significance:

1. **Records required by NRC Regulations** - Implement corrective actions to replace the records, or modify the existing records to bring into conformance, or justify an exemption (not generally to be considered except in extreme circumstances; currently we anticipate no exemption requests). The specific records in this category have been defined by TVA in the QA Records CAP (Code Data Reports, Fire Protection Analysis, etc.).

2. **Records required to demonstrate qualification of safety related features, attributes, and functions of the plant or activities** - Implement any of the above corrective actions, or create alternative records, or develop alternate technical bases demonstrating qualification.

3. **Records required to demonstrate qualification of quality-related items or activities** - Implement any of the above corrective actions, or demonstrate (by providing alternative information) that the requirements are met, or justify changing the requirements.

4. **Records required by TVA procedures (but not falling in any of the above categories)** - Implement any of the above corrective actions if the record supports future operational support, or justify leaving the situation "as-is," or justify changing the procedure (eliminate/modify the records requirement).

B. Project Implementation of Resolution Methods

One of the key tools used by the QA Records Project is the record plan that is developed for each major plant element. This plan identifies the critical attributes for which verification is necessary to assure that hardware installations adequately comply with design requirements. The plan also identifies the essential records which are required to substantiate the adequacy of critical attributes. These essential records may be the original records or records generated later as a result of special corrective action programs. An example of a record plan is provided for information as an attachment to Enclosure 2 to this letter.

In cases where the essential record for an attribute is generated by a special corrective action program and is an alternate or supplement to the original record, the new record will be specified in the record plan. In addition, the new record will be transmitted to Document Control Records Management (DCRM) and cross-referenced in the Records Index to assure retrievability to the unique ID number of the item. The record plan will also become a record and will be

similarly indexed so that it can be retrieved and provide a roadmap to all the other essential records for that item.

The essential records identified on records plans are evaluated for technical content review in accordance with the criteria provided in the QA Records CAP. The specific records to be reviewed and the methodology for sampling will be determined by the Records Completion Teams in accordance with the QA Records CAP. This will include reviews to assure that the other CAPs and SPs are generating adequate records to be used as alternates or supplements to the original records as stipulated in the record plans. The adequacy of original records relied on as the essential record will be evaluated by review of the technical content of the record, review of the procedure used to generate the record, and the results of the Additional Systematic Records Review (ASRR) hardware reviews.

C. Closure Packages

Completion of the QA Records Project will be documented in a Final Report. However, the project will advance toward completion with the progressive closure of discrete areas such as record types and elements. As the reviews and problem resolution activities are completed, closure packages will be prepared with sufficient documentation to permit a final determination to be made about the acceptability of record types and elements.

III. PROJECT STATUS

A. Record Quality Reviews

Initial sample reviews have been completed covering the 186 QA record types that apply to WBN. Additional reviews are being performed as required to comply with the revised sampling methodology described in Revision 5 of the QA Records CAP. Development and approval of resolutions for deficiencies found during the initial record quality reviews are now essentially complete. Implementation of resolutions is well underway.

B. Hardware Reviews

Initial sample reinspections have been essentially completed covering approximately 1157 components. Additional inspections are being performed as required to comply with the revised sampling methodology described in Revision 5 of the QA Records CAP. Development and approval of resolutions for deficiencies found during the initial sample reinspections are now underway with 5 of the 20 elements completed.

C. Technical Content Reviews

- Civil/Structural Records Completion Team

  This team has completed development of three records plans for structural support elements. These plans are for Conduit Supports; Heating, Ventilation, and Air Conditioning (HVAC) Supports, and Cable Tray Supports. Other record plans including those for Large and Small Bore Piping/Supports and Instrument Line Supports are currently prepared and in the review process. The team is also in the process of reviewing and resolving deficiencies identified during the hardware reviews of large and small bore piping.

- Mechanical Records Completion Team

  The records plan and the technical content review of records for coatings has been completed. The team is currently working with specialists in the line organization to resolve problems identified during this review. The team is also reviewing and resolving deficiencies identified during the hardware reviews of Mechanical Equipment.

- Electrical Records Completion Team

  Development of record plans for the elements Cable, Cable Raceway, Electrical Equipment, Instrument, and Instrument Lines are underway. The Electrical RCT is also in the process of reviewing/evaluating deficiencies identified during the hardware reviews for four of these five elements; no hardware deficiencies were identified for the fifth element, Electrical Equipment.

- Workplan Records Completion Team

  An evaluation is being made of the completed reviews of workplans to determine if additional sampling will be required. Considerable effort is underway to provide improved indexing of the contents of workplan packages to unique identifiers to improve retrievability.

- Vendor/Material Records Completion Team

  Indexing formats and methods are being developed to up-grade the indexing of contract (vendor/manufacturer) records to facilitate their retrieval in a timely manner. Support is also being provided to other Record Completion Teams to resolve records issues related to material attributes.

D. Closure Packages Completed

To date, closure packages have been completed for 44 of 198 ANSI record types (186 apply to Watts Bar) for Record Quality. A listing of these closure packages is provided in an attachment to this enclosure. All completed closure packages are available for review at WBN site.

IV. PROJECT RESULTS

A. Civil/Structural

1. Conduit Supports

The ASRR has completed its walkdown of conduit supports under the hardware review to verify that the records accurately reflect the actual physical installation. A number of configuration discrepancies have been identified and have been determined to be the same type of problems that are resolved by the Conduit and Conduit Supports CAP. A record plan has been issued for conduit supports which identifies the essential records to be relied upon for licensing WBN. The RCT has worked with DCRM to develop a program for indexing the record plan to each conduit support. The team has worked with the line organization to insure supplemental data sheets are retrievable for all conduit supports. These data sheets provide the references to walkthrough/walkdown records and to the qualifying calculations.

Specific corrective actions are being performed for the issue of missing conduit support inspection records. Refer to Enclosure 2 to this letter for a discussion of TVA's resolution methodology for this issue.

2. Cable Tray Supports

ASRR has completed its walkdown of cable tray supports under the hardware review to verify that the records accurately reflect the actual physical installation. The data has not been reviewed by the RCT at this time. Technical review of the ANSI N45.2.9 record categories has begun. A search for any missing installation inspection records on cable tray supports is in progress. No missing records have been identified to date. A record plan similar to that for conduit supports has been issued for cable tray supports.

3. HVAC Supports

ASRR has completed its walkdown of the HVAC supports under the hardware review to verify that the records accurately reflect the actual physical installation. Findings from the hardware

review were initially documented under WBPER920007 and later transferred into a corrective action document under the HVAC CAP to be resolved prior to its closure. Technical review of the ANSI N45.2.9 record categories has begun. A check for possible missing installation inspection records for HVAC supports in the Intake Pumping Station, the Diesel Generator Building, and the Additional Diesel Generator Building is complete. The results show no missing installation inspection records for this commodity in those three buildings. A record plan as described in Conduit Supports has been issued for HVAC supports.

4. Instrument Line Supports

ASRR has completed its walkdown of instrument line supports under the hardware review to verify that the records accurately reflect the actual physical installation. WBPER920070 was written to document all the findings of the hardware review. The RCT has reviewed 60 of the 108 identified deficiencies. Several of these deficiencies include improperly torqued bolts for clamps and one broken anchor bolt. A record plan has been developed and is presently in the review cycle.

5. Masonry Walls

ASRR has completed its walkdown of all the masonry walls (17) in safety-related structures to verify that the records accurately reflect the actual physical installation. No significant problems were identified during this hardware review. A technical review will be performed on the total population, however no problems are anticipated based on the 100% hardware review.

B. <u>Mechanical</u>

1. Coatings

ASRR has completed its walkdown of containment coatings under the hardware review, and has performed a technical content review. ASRR has found inconsistencies in documentation which qualifies containment coatings for WBN's Design Basis Accident (DBA). Much DBA testing has been performed to qualify the various coating systems at WBN, however there is a need to compile this information and correlate it to WBN-specific conditions (e.g., coating millages, surface preparations). WBPER920196 was issued on August 13, 1992, to address these problems.

Other minor documentation issues have been noted, and are being resolved. These include inconsistent and incomplete application records, and improving the documentation of uncontrolled coatings inside containment.

2. Large Bore Piping

Two separate efforts are currently underway; the N-5 program and the resolution of issues arising from the ASRR Hardware Review which are discussed below:

The N-5 program has been reviewing ASME code data reports for errors and omissions, and providing necessary corrections to bring the records into consistency with installed systems. The first phase of the effort is addressing the records and systems up to the point of a system's configuration at original transfer to Operations. The second phase will address subsequent changes made to the systems. The first phase is well underway, and will lead into the second phase starting in October 1992.

The N-5 program has found various problems with the original code data reports, such as:

- Installed material specifications and grades do not conform to the requirements of bills of materials.
- The entry for "Year Built" is incorrect on the N-5.
- Weld Operations sheets lack heat numbers for installed materials.
- References to continuation sheets on weld maps are incomplete or incorrect.
- Heat numbers for installed materials are out of sequence with reference to weld numbers.
- Hydro/Weld operation sheets are unretrievable.

ASRR's hardware review of large bore piping has found various minor problems of a similar nature to those found in WBN's Welding and HAAUP CAP Projects. These include undersized and out-of-tolerance welds, gouges, etc. No new issues are expected to arise from the discrepancies found.

The record plan for large bore piping has been drafted, and is now in review. The technical content review will begin after approval of the record plan.

3. Small Bore Piping

ASRR has not yet assessed the detailed results of the hardware reviews of small bore piping; however, no significant differences are expected from those discussed above for large bore piping. Likewise, the N-5 program is addressing issues affecting code data reports, as applicable. The record plan for small bore piping has been drafted, and is now in review. The technical content review will begin after approval of the record plan.

V. Conclusion

Considerable work has been completed on reviews of WBN records and the related hardware. Results to date indicate that discrepancies found with hardware are generally enveloped by resolutions that are being provided by special corrective action programs; e.g., CAPs, SPs, CATDs, etc. Problems found with QA Records are being resolved using the methodology options and guidelines provided by the QA Records CAP, Revision 5. In certain cases this involves the use of records generated by special corrective action programs as the alternate records to provide the licensing basis in place of the original installation/inspection records.

As the QA Records Project advances toward completion, a process of progressive closure will be utilized. This will be accomplished through the development of discrete closure packages for record types and hardware elements. These will be available for review at the WBN site. The status and results of the project as well as information about completed closure packages will be provided in periodic reports similar to this in the future.

RECORDS COMPLETION PACKAGES
RECORDS QUALITY REVIEWS

	ANSI Type	Description
23	K04	Minutes of Meetings of the Plant Nuclear Safety Committee
22	K03	Current Individual Plant Staff Member Qualification Exp, Tran & Rec
21	H20	Welding Personnel Qualifications
20	H18	Welding Filler Metal Material Reports
19	E18	Safety Valve Response Test Procedure
18	B20	Procedure for Containment Vessel Press/Proof Test & Leak Rt Test
17	A14	Stress Reports
16	M14	Power Transmission Substation Test Procedures and Results
15	M07	Initial Reactor Criticality Test Procedures and Results
14	K16	Special Reactor Test/Experimental Records
13	M19	Startup problems and Resolutions
12	M18	Startup Logs
11	M13	Plant Load Step Change Data
10	M12	Plant Load Ramp Change Data
9	M06	Initial Plant Loading Data
8	M04	Hydrostatic Pressure Test Procedures and Results
7	M03	Flushing Procedures and Results
6	K14	Reactor Coolant System In-Service Inspection Records
5	K13	Radioactivity Levels of Liquid and Gaseous Waste Released
4	K06	Normal Nuclear Unit Operations including Power Levels
3	J06	Eddy Current Examination Procedures
2	B23	Reports for Periodic Tendon Inspection
1	B09	Material Property Reports on Containment Liner & Accessories

RECORDS COMPLETION PACKAGES
RECORDS QUALITY REVIEWS

	ANSI Type	Description
44	A11	QA Audit Reports of NE Systems
43	H06	Liquid Penetrant Test Procedures
42	H08	Magnetic Particle Test Procedures
41	D04	QA Field Audit Reports
40	B14	Material Property Reports on Steel Piling
39	M16	Primary & Secondary Auxiliary Power Test Procedures and Results
38	M11	Onsite Emergency Power Source Test Procedures & Test Reports
37	B06	Concrete Mix Design Reports
36	B05	Concrete Cylinder Test Reports and Charts
35	M01	Automatic Emergency Power Source Transfer Procedures & Results
34	H04	Heat Treatment Records
33	B15	Material Property Reports on Structural Steel and Bolting
32	M21	Station Battery & DC Power Distribution Test Procedure and Reports
31	M20	Startup Test Procedures and Results
30	M17	Reactor Protection System Tests and Results
29	M10	Offsite Emergency Power Source Energizing Procedure & Results
28	M08	Instrument AC Systems & Inverters Test Procedures and Reports
27	M05	Initial Heatup, Hot Functional & Cooldown Procedures and Results
26	M02	Final Systems Adjustment Data
25	K17	Transient/Operational Cycling Records for Plant Components
24	K07	Offsite Environmental Monitoring Survey Records

ENCLOSURE 2

WATTS BAR NUCLEAR PLANT

QA RECORDS PROJECT

CONDUIT SUPPORT INSPECTION RECORDS

CONDUIT SUPPORT INSPECTION RECORDS

Large numbers of the original quality control (QC) inspection records are discrepant and/or nonretrievable for electrical conduit supports. The following discussion describes the background, methodology, and status for the resolution of this issue.

Approximately 45,000 conduit supports have been installed in Category I structures. Conduit supports were originally installed in bulk by Nuclear Construction to Quality Control Procedure (QCP) 3.3. This typically consisted of a one-page sheet with 3 inspector signoffs required; for fabrication, installation, and welding per design drawings.

Two problems were identified regarding the retrievability of conduit support inspection records: (1) records are missing for some conduit supports in the Diesel Generator Building and Intake Pumping Station, and (2) missing support ID tags making it difficult to correlate inspection records to a support in the field.

Two distinct vintages and types of records will generally exist in the WBN records retrieval system. One record type is the original QC inspection from the original construction period and the other is a recent CAP or other generic corrective action record. For the case where the original QC inspection record is determined to be missing, or non-retrievable, the CAP/special corrective action record shall be considered as an alternate record. When an original record exists, the CAP/special corrective action record will supplement the original record and shall be considered the primary record for demonstrating qualification. In order to assure the timely identification and retrieval of the key essential records for licensing and avoid confusion with the original QC records, TVA is determining how to classify the original records for retention for future reference.

The final resolution of the missing conduit support inspection records involves the designation of an alternate set of records which provides coverage for the attributes from the original inspection records. These alternate records primarily consist of records produced from implementation of the Conduit Support CAP, Welding CAP, and employee concern corrective actions. This disposition method is consistent with the guidelines for dispositioning record problems as specified in Section 4.3.2.2 of the QA Records CAP (See discussion in Enclosure 1, para. I.A). The records for conduit support installations are classified as records required to demonstrate qualification of safety-related features, attributes, and functions of the plant or activities. The QA records CAP provides for the creation of alternate records, or development of alternative technical bases demonstrating qualification. The results of programs that provide alternate records are being reviewed for verification of adequacy by Site QA activities; e.g., QA monitoring of engineering walkthroughs and audits of engineering calculations. The alternate records, by attribute, that are being relied upon to provide a licensing basis are indicated in bold type in the Conduit Support Record Plan Attribute Coverage Matrix. The current version of this document is provided for information as an attachment to this enclosure.

Even though the project is relying on the alternate records produced by recent programs, the high concentration of missing original inspection records in certain rooms of the Diesel Generator Building is a concern that requires investigation. As summarized below, corrective action steps have been developed and implementation begun to determine if installation quality of supports in plant areas with high concentrations of missing records differs significantly from the rest of the population. Sample reinspections will be performed on supports with missing records to provide this comparison of installation quality to the remainder of the population. Any discrepancies found will be evaluated by comparison against corrective action program (Conduit Support CAP, Welding CAP, etc.) results. If the discrepancies are found to be effectively enveloped by the resolutions provided through the CAP alternate records, then a conclusion can be drawn that the original installation quality of the supports with missing records is no different than the overall installation quality of the conduit support population where records do exist.

Therefore, these sample reinspections will provide additional confidence in the adequacy of conduit supports, including those areas where higher than expected concentrations of missing original inspection records occur. The licensing basis will be provided by the alternate records as discussed in the previous paragraph.

Current status to date:

- Conduit and Conduit Support CAP engineering records have been cross-referenced in the RIMS data base for each support in the Diesel Generator Building (DGB), Additional Diesel Generator Building (ADGB), and intake pumping station (IPS), including those with missing inspection records.

- Approximately 1500 conduit supports exist in the DGB. Based on a data base review of inspection records (for those supports confirmed to be in existence with tag ID numbers during the CAP walkthrough), approximately 130 have nonretrievable inspection records and are concentrated in certain areas in the DGB. In addition to these, approximately 300 have missing tags and cannot readily be matched by support number to an existing record. An activity is in process to match as many of these as possible to the inspection records. Supports for which records cannot be retrieved will define a subpopulation for sample reinspection.

- A sample reinspection is in process (32 supports completed to date in the DGB) to determine the quality of these installations as compared to supports that have original inspection records. The results thus far show that the supports conform to design output with a few minor discrepancies noted; however, these discrepancies are enveloped by the CAP and are no different in frequency or magnitude than the ones found on supports with original inspection records. Material hardness and spark tests have been performed on 6 of these conduit supports to date and the preliminary results show the material meets design output requirements and specifications.

- Upon completion of Conduit Support CAP documentation, and transmittal of CAP supplemental data sheets to DCRM for all safety-related conduit supports, a determination of the total number of supports (by unique ID) with nonretrievable records can be made. Sample reinspections which consider the stratification of problems will be used to determine the quality of these installations as compared to supports that have original inspection records.

- The Conduit Support Record Plan Attribute Coverage Matrix (Attachment), will be cross-referenced in RIMS to safety-related conduit supports. The Civil/Structural RCT will perform technical content reviews on those records defined in the record plan that are relied upon for the licensing basis.

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
1. SUPPORT CONFIGURATION:						SEVERAL OF THESE ATTRIBUTES WERE FOUND ACCEPTABLE DURING EARLY STAGES OF CONDUIT CAP IMPLEMENTATION BASED ON A REPRESENTATIVE PORTION OF SUPPORT POPULATION. THEREFORE, FOR MANY SUPPORTS, THE CAP SUPPLEMENTAL DATA CONSISTS OF REFERENCES TO CRITICAL CASES IN LIEU OF INDIVIDUAL DETAILED ATTRIBUTE WALKTHROUGH SHEETS. NE CAP WALKTHROUGH PROCEDURES WP-51 AND TI-2006-CRITICAL CASE WALKDOWN PROCEDURE TI-2011.
* TYPICAL TYPE	D0644 E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* MEMBER LENGTH	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* MEMBER SIZES	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* MEMBER TYPE (UNISTRUT, TUBE STEEL, ETC.)	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	

(1) Records denoted in bold print represent those documents serving as the QA record required for licensing

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
* ORIENTATION	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
2. SUPPORT MATERIAL:						
* TYPE/GRADE PER DRAWING	D0644, E0630, G0404	D06, E06, G04	QCP-3.3, QCP-3.09, (TEST NO.25), QCP-1.06	EMPLOYEE CONCERN PROGRAM	EMPLOYEE CONCERN SUBCATEGORY REPORT 40500	(1) **GENERIC RESOLUTION OF TUBE STEEL TRACEABILITY AND TRACEABILITY REQUIREMENTS FOR QA LEVEL II MATERIALS ARE DISCUSSED IN REFERENCED EMPLOYEE CONCERN REPORT.** (1) **QUALITY OF QA LEVEL II MATERIALS WILL BE ASSESSED THRU RECORD REVIEWS OF RECEIPT INSPECTION REPORTS AND POWER STORES REQUISITION FORMS (QCP-1.06).**
3. SUPPORT IDENTIFICATION						
* UNIQUE ID NUMBER	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09, (TEST NO.25)	CORRECTIVE ACTION PROGRAM	(1) **SCAR WBSCA910227, RRSS #141 (OPEN)-RETRIEVABILITY OF RECORDS FOR SUPPORTS WITH MISSING ID TAGS WILL BE ADDRESSED.**	
4. CONDUIT CONFIGURATION:						NE CAP WALKTHROUGH PROCEDURES WP-51 AND TI-2006 -CRITICAL CASE WALKDOWN PROCEDURE TI-2011.
* SPAN BETWEN SUPPORTS	D0644, D0645	D06, D06	QCP-3.3, QCP-3.03, (TEST NO.25)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* CANTILEVER SPANS	D0644, D0645	D06, D06	QCP-3.3, QCP-3.03, (TEST NO.25)	CONDUIT CAP	(1) **NE WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
* CONCENTRATED WEIGHTS IN SPAN			G-40	CONDUIT CAP	(1) NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT	
5. CLAMP (TWO HOLE):						
* BOLT TIGHTNESS	E0630	E06	QCP-3.09	CONDUIT CAP	(1) CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M569501 THROUGH M569516.	
* BOLT THREAD ENGAGEMENT AND LENGTH	E0630	E06	QCP-3.09	CONDUIT CAP	(1) CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M569501 THROUGH M569516.	
* BOLT MATERIAL	E0630, D0644, G0404	E06, D06, G04	QCP-3.3, QCP-3.09, QCP-1.06	(1)CONDUIT CAP	(1) (1)CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M569501 THROUGH M569516.	
				(2)EMPLOYEE CONCERN PROGRAM	(2)EMPLOYEE CONCERN SUBCATEGORY REPORT 40500, PAGE 35.	
6. ONE HOLE STRAPS:						
* STRAP TYPE (MANUFACTURER)	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09	CONDUIT CAP	(1) CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M569501 THROUGH M569516.	
* BOLT TIGHTNESS	E0630	E06	QCP-3.09	CONDUIT CAP	(1) CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M0569501 THROUGH M569516.	

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
* CONDUIT SPAN	D0644, D0645	D06, D06	QCP-3.3, QCP-3.03	CONDUIT CAP	(1) **CONSTRUCTION WALKDOWNS-REFER TO SCHEDULE COLLECTOR ACTIVITY MD-M-05695-REMAINING WORK LISTS RWL-M569501 THROUGH M569516.**	
7. WELDING:						INITIAL CONDUIT CAP WALKTHROUGHS OF A REPRESENTATIVE PORTION OF POPULATION ASSESSED WELD SIZE, LENGTH, AND LOCAT[illegible] CRITICAL CASE EVALUATIONS BASED ON AS[illegible] BUILT WELD DIMENSIONS.
						FOR REMAINDER OF POPULATION, CONDUIT CAP WALKTHROUGHS VERIFIED WELD PRESENCE.
						WELDING CAP PROJECT EXAMINED AND EVALUATED A SAMPLE OF CONDUIT SUPPORT WELDS BASED ON NCIG-02 SAMPLING METHODOLOGY.
* LENGTH	D0644, C0776	D06, C07	QCP-3.3, QCP-4.13, QCP-4.23-4, (TEST NO.4)	(1)WELDING CAP	(1)WEP CLOSURE STATEMENT EVALUATION REPORTS (GROUP ID I,J,202,225)(RIMS T31920521843)	
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* LOCATION	D0644, C0776	D06, C07	QCP-3.3, QCP-4.13, QCP-4.23-4, (TEST NO.4)	(1)WELDING CAP	(1)WEP CLOSURE STATEMENT EVALUATION REPORTS (GROUP ID I,J,202,225)(RIMS T31920521843)	

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* QUALITY (FREE OF CRACKS, ARC STRIKES, ETC.)	D0644, C0776	D06, C07	QCP-3.3, QCP-4.13, QCP-4.23-4, (TEST NO.4)	WELDING CAP	(1) **WEP CLOSURE STATEMENT EVALUATION REPORTS (GROUP ID,I,J,202,225)(RIMS T31920521843).**	
* SIZE	D0644, C0776	D06, C07	QCP-3.3, QCP-4.13, QCP-4.23-4, (TEST NO.4)	(1)WELDING CAP	(1)WEP CLOSURE STATEMENT EVALUATION REPORTS (GROUP ID I,J,202,225)(RIMS T31920521843)	
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
8. CONCRETE EXPANSION ANCHORS						NE CAP WALKTHROUGH PROCEDURES WP-51 AND TI-2006-CRITICAL CASE WALKDOWN PROCEDURE TI-2011.
* SIZE	F0305, F0309	F03, F03	QCP-1.14 (TEST NO.1)	(1)10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1)FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.	

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* SPACING	F0309	F03	QCP-1.14 (TEST NO.1)	(1)10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1)FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.	
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* EDGE DISTANCE	F0309	F03	QCP-1.14 (TEST NO.1)	(1)10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1)FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.	
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* NUMBER OF ANCHORS	F0309	F03	QCP-1.14 (TEST NO.1)	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT NUMBER.**	

RECORD PLAN

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
* BOLT TIGHTNESS	E0622	E06	QCP-1.42-2 (TEST NO.2)	EMPLOYEE CONCERN PROGRAM	(1) **EMPLOYEE CONCERN SUBCATEGORY REPORT 11300-CATD 11300-NPS-02.**	
* PULL TEST	F0305, F0309	F03, F03	QCP-1.14 (TEST NO.1)	(1)EMPLOYEE CONCERN PROGRAM	(1)EMPLOYEE CONCERN SUBCATEGORY REPORT 11300-CATD 11300-WBN-05 AND CATD 11300-WBN-03	
				(2)10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1) **(2)FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.**	
* EMBEDDED LENGTH	F0305, F0309	F03, F03	QCP-1.14 (TEST NO.1)	10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1) **FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.**	
* THREAD ENGAGEMENT	E0622	E06	QCP-1.42-2 (TEST NO.2)	10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1) **FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM**	
* BOLT MATERIAL	E0622	E06	QCP-1.42-2 (TEST NO.2)	EMPLOYEE CONCERN PROGRAM	(1) **EMPLOYEE CONCERN SUBCATEGORY REPORT 40500, PAGE 35**	
9. CONCRETE EXPANSION ANCHOR BASEPLATE:						
* SIZE	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	

Conduit Support Attribute Coverage Matrix - Element No. 3

Critical Attribute	Record Type	Rec. Cat.	Inspection Process	Subsequent CAP Program(s), or other Review(s)	Reference CAP, or Corrective Action Document(s)	Remarks
* THICKNESS	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09	(1)10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1)FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM	
				(2)CONDUIT CAP	(1) **(2)NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* SUPPORT LOCATION ON PLATE	D0644, E0630	D06, E06	QCP-3.3, QCP-3.09	CONDUIT CAP	(1) **NE CAP WALKTHROUGHS AND CRITICAL CASE EVALUATIONS-REFER TO SSP-2.A SUPPLEMENTAL FORMS FOR EACH SUPPORT.**	
* BASEPLATE GAP WITH CONCRETE SURFACE	E0622	E06	QCP 1.42-2, (TEST NO.2)	10CFR50.55E FINAL REPORT-APPENDIX K OF TVA FINAL REPORT TO 79-02 NRC OIE BULLETIN	(1) **FINAL REPORT FOR 10CFR50.55E, "IMPROPERLY INSTALLED SUPPORT ANCHORS" (RIMS A27830314023)-FINAL REPORT FOR 79-02 PROGRAM.**	