WATTS BAR NUCLEAR PLANT

VENDOR INFORMATION

CORRECTIVE ACTION PROGRAM PLAN

REVISION 3

Prepared

Reviewed (Vendor Information Program Manager)

Reviewed (Engineering Special Projects Manager)

Submitted (New Projects Engineering Manager)

Approved (WBN Quality Manager)

Approved (WBN Program Manager)

Concurred (Watts Bar Program Team)

VENDOR INFORMATION
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REVISION LOG

REVISION LEVEL	DATE	AFFECTED PAGES	DESCRIPTION OF REVISION
2		All	The purpose of this revision is to add further discussion to the root causes. Other changes to the CAP are to describe the current program implementation, including the use of the EQIS data base and the designation of vendor documents as VTDs which are controlled within VTMs. Added section 4.1.6 to further discuss the confirmation of plant adequacy. Restructured the Basis of CAP to indicate the type of discrepancy. Added Attachment 2 to list other findings which were initially indicated as related, but were excluded from the program as unrelated.
3		1	Added statements that "Approved for Use" manual does not constitute approval as design output, and that engineering requirements may be within the manual.
		2	Added quotation marks to "Approved for Use."
		3	Stated engineering requirements may be within the manual, and TVA design documents are revised when appropriate.
		6	Deleted "approved" in front of "vendor document."
		7	Deleted extraneous word. Deleted "other" in front of "design documentation," "output" in front of "documents," and "previously approved by NE." Placed "Confirms the plant adequacy..." in separate bullet.

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1.0 INTRODUCTION

Various TVA Conditions Adverse to Quality (CAQ) reports, employee concerns and TVA and NRC audit findings have been written which involve vendor information at the Watts Bar Nuclear Plant (WBN). Specific problems identified include: (1) vendor information that has been inadequately evaluated for implementation; (2) vendor information that does not match the plant configuration; (3) vendor information that is inconsistent with related TVA-developed design input/output documents; (4) incorrect or out-of-date vendor documents; (5) inadequate vendor document control program; (6) manuals lost or uncontrolled; and (7) installations not approved by TVA Nuclear Engineering (NE). Attachment 1 is a listing of documents which identify specific problems related to vendor information which form the basis for the Vendor Information Corrective Action Program (VI CAP). Attachment 2 contains a list of other concerns and findings which were evaluated and excluded as unrelated to this CAP.

Common elements exist in these reports that indicate root causes are (1) vendor documents were not considered as documents requiring configuration control, (2) inadequate procedural requirements to govern the receipt, review, distribution, filing, control, maintenance and use of information, and (3) a lack of attention to detail. The related CAQs, employee concerns and audit findings have initiated corrective actions and actions to prevent recurrence that correct the specific findings and which address these root causes. For example, the procedural enhancement of the control of vendor documents and recent retraining of site personnel in the processing, review and use of vendor manuals are a result of WBN employee concerns corrective actions. Some corrective actions remain open and provide activities in parallel to the Vendor Information Corrective Action Program Plan contained herein. Other corrective actions will be completed as a result of this CAP.

The program described in this CAP will ensure that vendor documents containing information for the installation, operation, maintenance and testing of safety related equipment are verified to be complete and current, and appropriately updated for the life of plant. Recurrence control initiated within this CAP will evaluate these various related corrective actions and ensure manuals will be used and controlled in accordance with their intended purpose.

The term "engineering requirement" is used within this CAP to refer to the portion of the vendor's technical information that is determined by NE to be necessary to preserve the safety design basis of the plant. The term "Approved for Use" is used within this CAP to refer to vendor technical manuals that have been verified current, applicable to installed equipment, and contain information for the identification of engineering requirements which may be within the manual. This status, however, does not constitute approval of the manual as design output.

2.0 OBJECTIVE

The objective of the VI CAP is to provide reasonable assurance that vendor technical documents for safety-related equipment are current, complete, and appropriately updated for the life of the plant, and that information in these documents is appropriately used as input to TVA design output documents and plant instructions and procedures and built into the plant. Discrepancies identified by the program will be tracked to resolution through an open item management system. Any resultant design changes will be implemented through the design change control process. Any hardware modifications will be implemented as required.

3.0 SCOPE

The VI CAP includes the vendor-supplied documents for the unit 1 and common safety-related components and unit 2 safety-related components necessary for unit 1 operation. These vendor-supplied documents include vendor manuals, drawings, test reports and procedures, setpoint documents, and specifications.

The WBN Q-List, when revised, will include a comprehensive list of safety-related plant equipment and components. The identification of safety-related components in the Q-List will be the basis of the program scope.

4.0 PROGRAM DESCRIPTION

The VI CAP activities will identify the set of vendor documentation, defined as Vendor Technical Documents (VTD), containing vendor technical information necessary to support safety-related equipment installation, operation, maintenance, and testing. These VTDs will be consolidated into Vendor Technical Manuals (VTM), reviewed and "Approved for Use" by NE and the VTMs controlled for all site organizations by Document Control and Records Management (DCRM). VTMs assigned the status "Approved for Use" will be maintained current with related plant modifications, and a limited number of controlled manuals will be established and maintained identical to a master copy which is not available for checkout. Deviations from engineering requirements or potential engineering requirements will be approved by NE. Either as a result of direct VI program activities or utilization of other WBN recovery and corrective action programs, the consistency between VTMs and TVA documents and/or plant configuration will be reverified. Recurrence control will consist of the enhancement of site-level instructions and procedures to improve the control and maintenance of vendor information. Attachment 3, "Vendor Information Flow Chart," and Attachment 4, "Vendor Information Corrective Action Program Fragnet," provide the logic for the program activities.

4.1 Program Phases, Major CAP Elements, and Evaluations

The Corrective Actions necessary to provide the appropriate engineering baseline for vendor information are described below.

4.1.1 Identification of Vendor Information

A listing of the vendor-supplied documents will be prepared by NE for safety-related components identified on the revised Q-List. This listing will include both vendor manuals and other vendor documents established through vendor contact, searches of the contract files, and review of existing controlled vendor documents. Operations and maintenance personnel may identify additional vendor documents necessary to support plant installation, operation, maintenance, and testing activities.

4.1.2 Vendor Manual Update Project (VMUP)

The VI CAP activities to ensure manuals for safety-related components are complete and up-to-date will be similar to the vendor manual activities performed at both Sequoyah (SQN) and Browns Ferry Nuclear Plants (BFN). A master set of VTMs will be established, assigned an "Approved for Use" status, and updated as appropriate when affected by design changes and plant modifications. These activities will assure the following: (1) specific components to which each manual applies are identified; (2) manuals are complete and up to date (by vendor contact when possible); (3) information is provided in the manual for the identification of engineering requirements which may be contained within the manual, and (4) TVA design documents are revised when appropriate to reference or incorporate upgraded vendor technical information in the vendor manual.

At the completion of the Vendor Information Program, only VTMs that are "Approved for Use" and controlled will be allowed to be used for safety-related work. Vendor drawings contained within Vendor Technical Manuals are considered information only.

As inconsistencies are identified between vendor technical information in upgraded manuals and existing vendor manuals, or between upgraded vendor manuals and installed equipment, an Open Item Report (OIR) will be generated, tracked, and controlled in an open item management system. Inconsistencies requiring a design change document will be entered into the WBN design change control system and tracked to completion. Any hardware modifications will be implemented as required. If an open item is determined to be a CAQ, it will be tracked and controlled by the CAQ process.

4.1.3 Review of Other Vendor Information

Information of a technical nature received from the vendor in a format other than manuals will be reviewed to identify those documents containing relevant information. The types of vendor information to be reviewed will include but are not limited to:

° Vendor drawings (e.g., flow, physical, wiring, and control drawings)

° Purchase specifications/data sheets

° Inservice test procedures

° Data letters/technical bulletins

° Setpoint documents

° Environmental Qualification (EQ) Reports

The vendor information, other than vendor drawings, containing relevant information will be formatted as VTDs and consolidated into applicable VTMs. Alternately, the information may be incorporated into and controlled by a TVA document that is approved. Vendor information that is NE approved will be updated when affected by design changes and plant modifications.

Drawings supplied by the vendor that depict information necessary to support safety-related plant activities are to be maintained in an as-constructed or configuration controlled status independent of the VTM. These drawings are identified for inclusion in TVA's Drawing Management System (DMS) and are maintained and controlled in accordance with WBN's drawing control procedures. Copies of vendor drawings may be contained in VTMs; however, these are provided as information only copies. Only vendor drawings which are statused "As Constructed" (AC) or "Configuration Control Drawings" (CCD) are to be used for safety-related work.

As inconsistencies are identified between vendor technical information in upgraded manuals and existing vendor documents, or between upgraded vendor manuals and installed equipment, an Open Item Report (OIR) will be generated, tracked, and controlled in an open item management system. Inconsistencies requiring a design change document will be entered into the WBN design change control system and tracked to completion. Any hardware modifications will be implemented as required. If an open item is determined to be a CAQ, it will be tracked and controlled by the CAQ process.

4.1.4 Reconciliation of Plant Procedures/Instructions

Upon revision/issue of "Approved for Use" VTMs, the VTM will be reviewed by the affected plant organizations. Plant instructions and procedures (e.g., operating procedures, maintenance instructions, inservice test/inspection procedures) will be evaluated and revised if necessary to incorporate current information.

4.1.5 Establishment of Vendor Document Cross-References

Cross-references will be established and maintained to document the relationships between TVA documents and vendor-supplied documents that are referenced in them.

4.1.6 Confirmation of Plant Adequacy

The VI CAP will confirm the adequacy of the installed configuration for vendor supplied features. This confirmation will include a review of the Vertical Slice Review and the CAPs and Special Programs outlined in Volume 4 of the Nuclear Performance Plan. This review will determine the extent of verification of vendor requirements and the components and attributes involved. The review will also determine any problems related to vendor information and the corrective action taken.

NE will perform an analysis of the data gathered during this review. The analysis will identify those areas/attributes for which plant adequacy is confirmed. Areas/attributes that are nonconforming with vendor engineering requirements will be further analyzed for extent of condition and safety significance. A confirmation process will be performed for those areas/attributes related to vendor engineering requirements which are not covered by analysis or other programs. This confirmation process will include a review of vendor documents against design input and output requirements. Any conflicts or omissions will be identified and analyzed to determine the need to perform a physical confirmation of the adequacy of plant features. Required corrective action will be initiated using the WBN Design Control and CAQR Program.

4.2 Recurrence Control

The TVA corporate level policy regarding maintenance and control of vendor manuals is defined in the Interim Standard STD-9.1.56, revision 0, "Vendor Manual Control," effective March 31, 1989 (reference 1), which superseded Nuclear Quality Assurance Manual (NQAM), ID-QAP-6.2, revision 1, "Vendor Manual Control." Project and site procedures have been developed based on current corporate guidance and requirements relative to vendor manuals and other vendor

information. WBN Engineering Project (WBEP) procedures WBEP 3.11, "Vendor Manual Updating and Issuance," and WBEP 3.17, "Approving Vendor Information," which has also superseded WBEP 5.14, "Revising Vendor Drawings," ensure that new or revised vendor manuals and other vendor information are technically reviewed. WBN Site Administrative Instructions (AI) WBN AI-4.4, "Processing and Controlling Vendor Manuals," and WBN AI-4.1, "Processing and Storing Records," will ensure the proper receipt, distribution, and filing of vendor information in a site document control system. Information used to perform safety-related work is approved for use by NE. All supplements, revisions, or deletions from vendor documents will be authorized by NE.

As a long-term enhancement, procedures are being revised to require that vendor document cross-references be used in the development of design changes as part of the upgraded design change control process. The requirement for listing vendor-supplied documents as affected documents has been incorporated into design change control procedures WBEP 5.03, "Design Change Notices", and WBEP 5.08, "Engineering Change Notice (ECN) Modification Packages." Cross-references will be used as a tool to locate and maintain any referenced vendor information on TVA documents when affected by design changes. The use of this cross-reference will ensure that the relationship between the vendor document and TVA document is considered and maintained when either is revised.

The design change control procedures noted above will also be used to ensure that vendor documents are revised when affected by plant modifications. Vendor drawings used to perform safety-related work will be reviewed, approved, and maintained as individual output documents. They will be assigned an "as-constructed" status or be maintained as Configuration Control Drawings (CCDs), as appropriate.

Vendors will be contacted as necessary to ensure that controlled vendor documents remain current. Where vendors cannot be identified, have gone out of business, or will not supply information, TVA will ensure that sufficient attention is paid to equipment maintenance, replacement, and repair based on industry experience to compensate for the lack of vendor backup and to assure reliability.

As part of recurrence control for lack of attention to detail, training will be provided on the new and revised procedures emphasizing the importance of maintaining current and complete vendor information for safety-related components. These new and revised procedures will also emphasize that vendor technical information related to installation, operation, maintenance, and testing is to be appropriately referenced or incorporated in design input/output and plant instructions and procedures.

4.3 Licensing Assessment

Implementation of the VI CAP will ensure that vendor information containing information for the installation, operation, maintenance and testing of safety-related equipment is verified to be complete, current, and appropriately updated for the life of plant, and is in compliance with licensing requirements. Revisions to the FSAR and licensing commitments will be made only when technically justified.

5.0 PROGRAM INTERFACES

The identification of safety-related components as a result of the Q-List CAP will be the basis of the VI CAP scope for unit 1, common, and unit 2 necessary for unit 1 operation. The EQIS data base will be used as the data base for the Q-list and therefore is used to develop the scope of the VI CAP. EQIS also contains the component basis for TVA-developed design input/output documents as well as for vendor documents, and therefore ensures component compatibility between applicable TVA and vendor documents. Prior to the completion of the VI CAP, the updated Q-List produced by the Q-List CAP will be reviewed to assure that safety-related components on the Q-List have been included in the VI program.

Equipment qualification/test reports and stress reports will be reviewed for engineering requirements and established as design input/output by the Environmental Qualification and Equipment Seismic Qualification program.

As part of the VI CAP activities, the consistency between VTMs and TVA documents and plant configuration will be confirmed as a result of direct vendor information activities and by review/analysis of other WBN recovery and corrective action programs.

6.0 PROGRAM IMPLEMENTATION

The VI CAP is being implemented in parallel and coordinated with the Design Baseline and Verification Program (DBVP) management team to ensure effective integration with related WBN baselining efforts. The WBN implementation of the VI CAP requires support from site organizations identified below.

6.1 Nuclear Engineering

- Identifies the set of safety-related vendor documentation (e.g., manuals, drawings, specifications, setpoint documents).
- Prepares Vendor Technical Manuals to be current, complete, and consistent with design documentation.
- Confirms the plant adequacy in accordance with Section 4.1.6.
- Reviews and issues VTMs as "Approved for Use" documents. Initiates design change documents when necessary for revisions to documents.

- Reviews and approves vendor drawings as "As Constructed" drawings or CCDs when necessary to support safety-related plant activities.

- Generates, tracks and controls Open Item Reports.

- Establishes and maintains a cross-reference data base of approved vendor-supplied documents to referencing TVA design documents.

- Develops or enhances procedures as appropriate to review, use, and maintain vendor technical information.

- Establishes a program for vendor contact where appropriate.

6.2 Nuclear Assurance and Services

- Establishes a program for ensuring that vendor documents in controlled status are maintained at the same revision level as the Master Copy.

- Distributes vendor-supplied documents and revisions for use.

- Revises and consolidates procedures on distribution of vendor information.

6.3 Site Operations, Technical Support, and Maintenance Organization

- Assists NE in identification of safety-related vendor manuals necessary to support plant installation, operations, maintenance, and testing activities.

- Reviews changes to manuals for safety-related equipment and other vendor documents, assesses plant procedures and instructions, and revises them when appropriate.

- Implements hardware modifications as required.

6.4 Nuclear Construction

- Reviews changes to manuals for safety-related equipment and other vendor documents, assesses plant procedures and instructions, and revises them when appropriate.

- Implements hardware modifications as required.

7.0 PROGRAM DOCUMENTATION

The VI CAP will upgrade safety-related vendor-supplied documents by requiring NE review and approval. In addition, Nuclear Assurance and Services (NA&S) will ensure that NE-approved vendor-supplied documents are used as the Master Copy. The auditable deliverables of the program are described as follows:

- Controlled Vendor Technical Manuals maintained by NA&S at the same revision level as the Master Copy. Document Control and Records Management (DCRM) will control both master copy and control copies produced from the master copy.

- Vendor drawings which have been reviewed and approved by NE and maintained as "As-Constructed" drawings or CCDs, as appropriate.

- Cross-reference data base of vendor-supplied documents to referencing TVA documents.

- Open Item Reports (OIRs).

- CAQRs and design change documents resulting from OIRs.

A final report will be produced at VI program completion to describe the results of the VI CAP.

8.0 CONCLUSION

When implemented, the VI CAP is to provide reasonable assurance that vendor technical documents containing information for the installation, operation, maintenance and testing of safety related equipment are verified to be current, complete, and appropriately updated for the life of plant, and that information in these documents has been used as input to TVA design output documents and plant instructions and procedures when appropriate. The consistency between VTMs and TVA documents and plant configuration will be confirmed as a result of direct vendor information activities and by review/analysis of other WBN recovery and corrective action programs.

9.0 REFERENCE

Interim STD-9.1.56, Revision 0, "Vendor Manual Control," effective March 31, 1989.

ATTACHMENT 1

BASIS FOR CAP

Document	Description	Justification Note #
CAQR WBE870777724	Vendor manuals were stamped accepted for use, "AU." Supplement to NEP 4.1 dated June 02, 1987, requires that vendor manuals for CSSC items be stamped approved, "A."	5
CAQR WBF870063	Equipment installed with no approved or controlled vendor documents or drawings.	7
CAQR WBF870064	Equipment installed with no approved or controlled vendor documents issued.	7
CAQR WBP870044	Torque spring pack assembly arranged incorrectly.	2
CAQR WBP870083	Westinghouse vendor manuals are not being updated in a timely manner.	4
CAQR WBP870089	Mechanical Maintenance did not account for safety-related vendor manuals.	6
CAQR WBP870090	Document Control did not account for a safety-related vendor manual.	6
CAQR WBP870091	Operations training did not account for safety-related vendor manuals.	6
CAQR WBP870092	Technical support/chemistry did not account for safety-related vendor manuals.	6
CAQR WBP870093	Electrical Maintenance did not account for safety-related vendor manuals.	6
CAQR WBP870094	Instrument Maintenance did not account for safety-related vendor manuals.	6
CAQR WBP870095	Modifications did not account for a safety-related vendor manual.	6
CAQR WBP870148	The trip setpoints conflict between the TVA and the vendor drawing.	3
CAQR WBP870215	Westinghouse vendor manuals are not being revised to reflect the "as-constructed" conditions of plant equipment.	4

ATTACHMENT 1

BASIS FOR CAP

Document	Description	Justification Note #
CAQR WBP870324	Safeguard Protection System Test Procedure Manual is not up to date.	4
CAQR WBP870345	Vendor drawings and TVA drawings conflict on setpoints.	3
CAQR WBP870382	Maintenance instruction does not indicate the temperature requirements specified by the vendor.	1
CAQR WBP870468	Failure to implement design change by vendor.	4
CAQR WBP890536	Bleed port elbows not installed on ASCO solenoid valves as required by vendor.	1
CAQR WBP870701	Vendor information for safety-related components, i.e., vendor manuals, documents, and drawings, is not maintained complete, current, and configuration controlled.	5
CAQR WBP870833	Adequate design output documentation for Limitorque motor actuators not available during design, construction, and maintenance.	2
CAQR WBP871126	Watts Bar Engineering Project does not have a procedure regarding assumption of vendor drawing control.	5
CAQR WBP880404, NCR W-593-P	a) Incorrect valve torque spring pack installed. b) Drawing shows 3600 RPM motor was installed. 1800 RPM motor was actually installed.	2
CAQR WBP880405, NCR W-594-P	Incorrect torque switch settings.	2
Discrepancy Report WB-DR-87-31R	Drawings within vendor manual were used for maintenance activities.	7
EC 20404 WBN 01	Lack of procedure that implements the review and approval of vendor manuals/ revisions.	5

ATTACHMENT 1

BASIS FOR CAP

Document	Description	Justification Note #
EC 30804 WBN 01	Vendor manuals and their drawings do not reflect the current configuration of the plant.	2
EC 30804 WBN 02	Vendor drawings which are not part of the Drawing Management System are being used to make repairs to CSSC plant equipment.	7
EC-SWEC-WBN-74-12	Vendor manual controls not implemented in accordance with procedures.	5
NCR W-326-P	Vendor drawing and TVA drawing do not match.	3
NCR W-421-P	As-constructed drawings do not conform to vendor specifications.	3
NCR W-476-P	a) The installation documentation does not reflect that vendor installation requirements were used to mount the instruments. b) Vendor-supplied brackets furnished with instruments cannot be verified from existing documentation for correct material type and configuration.	1
NCR W-541-P	Drain lines are not correctly installed on upper compartment vent coolers per vendor instructions.	1
NCR W-554-P	As-constructed connection diagrams do not reflect installed wire size.	3
QA Audit Deviation QWB-A-87-0015-D04	Identification and timely corrective action for document control activities not done.	6
QA Audit Deviation QWB-A-87-0015-D05	Quality Notice did not include all nuclear sites.	5
QA Audit Deviation QWB-A-87-0015-D06	Failure to establish adequate controls assuring maintenance of site vendor manuals as QA records.	5
QA Audit Deviation QWB-A-87-0015-D07	Failure to provide effective controls assuring the contents of vendor manuals remain current and complete.	5
SCR WBNEEB8618	Failure to update vendor documents to show replacement parts.	4

ATTACHMENT 1

BASIS FOR CAP

Document	Description	Justification Note #
SCR WBNEEB8702 NRC Violation 390/87-05-01	Failure to consider vendor requirements in the design of the hydrogen analyzer system and failure to specify classes of cleanness in specifications or drawings.	1
SCR WBNEEB8724 R1	Vendor drawing and manual discrepancies exist for equipment supplied by Air Monitor Corporation and General Atomic Corp.	4
SCR WBNEQP8610, NRC Violation 390/81-66	Vendor cable not installed per vendor requirements on drawings.	1
SCR WBNMEB8621	Westinghouse setpoint and post accident monitor documents do not reflect as-constructed condition and licensing commitments	2
SCR WBNMEB8660	Failure to connect tubes in accordance with approved vendor drawings.	1
SCR WBNMEB8715, NCR W-415-P, NRC Violation 390/86-18-01	ASCO solenoid valves were not installed according to vendor requirements.	1

Notes (Inclusion Justification)

1. Vendor information that has been inadequately evaluated for implementation.
2. Vendor information does not match plant configuration.
3. Vendor information is inconsistent with TVA-developed design input/output documents.
4. Incorrect or out-of-date vendor documents.
5. Inadequate vendor document control program.
6. Manuals lost or uncontrolled.
7. Installations not approved by Nuclear Engineering.

CAQR - Condition Adverse to Quality Report
EC - Employee Concern
NCR - Nonconforming Condition Report
SCR - Significant Condition Report

ATTACHMENT 2

CONCERNS EXCLUDED FROM PROGRAM

Document	Description	Justification For Exclusion
CAQR WBP870150	Work on valves performed without updated records or reinspection.	Work control issue
CAQR WBP870636	Westinghouse does not have calcs produced by out-of-business subvendor.	Not technical information issue
CAQR WBP870917	NEP 6.1 and WBEP-EP-43.07 do not assure modification will not invalidate vendor's compliance certification.	Design change process issue
CAQR WBP871060	Vendor wiring is reverse of that reflected on vendor as-constructed drawings.	Miswiring by vendor
CAQR WBP871110	Discrepancies between as-constructed and vendor drawings and actual field configuration.	Only as-constructed vendor drawings need be updated
CAQR WBP880153, NCR WBN 7019	The assembly and installation of diesel battery and vital battery racks do not meet requirements for vendor drawings and specifications.	Vendor deliverable not submitted for approval
CAQR WBT870272	High voltage cable insulation deterioration.	Vendor contract issue
DR-201	No certified heat exchanger data sheets were submitted to TVA for engineering approval.	Vendor contract issue
DR-230	The most current vendor drawing is not available from WBN DMS drawing file.	DCRM Procedures now require search for correct revision level for requested drawings
DR-375	Vendor drawings have not been maintained current with TVA drawings.	Only as-constructed vendor drawings need be updated
DR-385	Vendor drawings have not been maintained current with TVA drawings.	Only as-constructed vendor drawings need be updated

ATTACHMENT 2

CONCERNS EXCLUDED FROM PROGRAM

Document	Description	Justification For Exclusion
DR-650	Illegible QA records in RIMS.	RIMS related issue
DR-651	QA records were not correctly authenticated.	QA documents issue
EC SWEC WBN 74-11	Legibility of Specific Vendor Drawings and Drawings furnished to Control Room Operators continue to be a problem	Document Control Procedures on Document Quality have been strengthened
EC SWEC WBN 74-13	Vendor Drawings do not differentiate between Diesel Generator and Additional Diesel Generator Buildings	Vendors Differentiate Drawings by Contract Number
IFI 390/86-04-01	Potential exists for mixing of lubricants in electric motors.	IFI Revision deleted identified discrepancy
NCR 3415	Equipment configuration does not match TVA and vendor drawings.	Configuration control issue
NCR W-247-P	Modifications to piping are not reflected on vendor drawing.	Only as-constructed vendor drawings need be updated
NCR W-253-P	Westinghouse drawings are not being updated promptly to reflect as-constructed drawings.	Only as-constructed vendor drawings need be updated
NCR W-482-P	Control panel wire not installed per vendor drawing.	Isolated case of miswiring
NCR W-492-P	Vendor supplied cast iron instead of cast steel bodies.	Vendor error in shipment

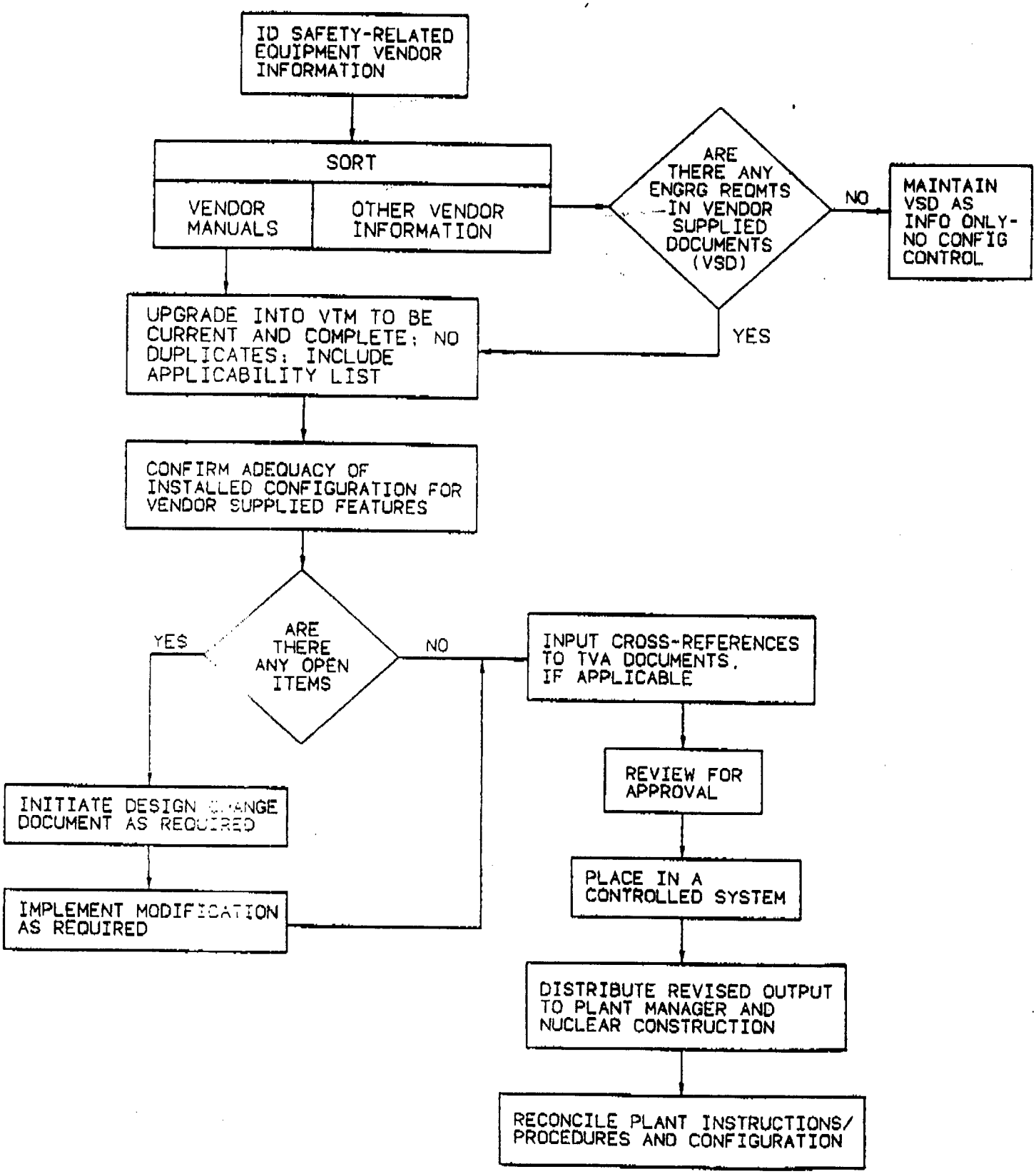
ATTACHMENT 2

CONCERNS EXCLUDED FROM PROGRAM

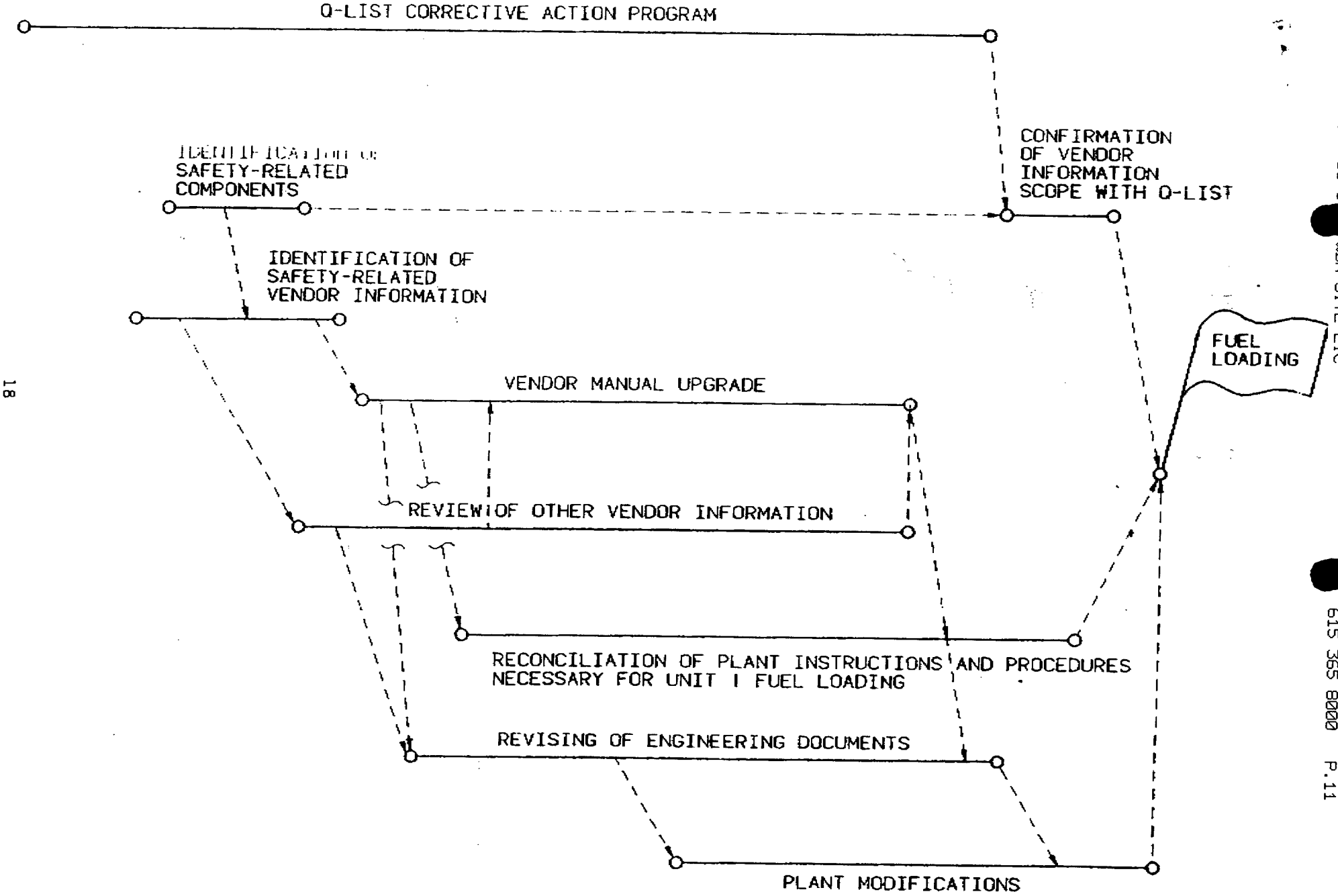
Document	Description	Justification For Exclusion
NCR W-546-P	Vendor drawings and manuals are not available for fire detection devices.	Vendor contract issue
SCR WBNNEB8605	ECN was closed before affected vendor drawings were revised.	Design change process issue
SCR WBNNEB8606	ECN was closed before affected vendor drawings were revised.	Design change process issue

CAQR - Condition Adverse to Quality Report
DR - Vertical Slice Discrepancy Report
EC - Employee Concern
IFI - Inspector Followup Item
NCR - Nonconforming Condition Report
SCR - Significant Condition Report

ATTACHMENT 3
VENDOR INFORMATION FLOW CHART



ATTACHMENT 4
VENDOR INFORMATION CORRECTIVE ACTION PROGRAM FRAGNET



ENCLOSURE 2

LIST OF COMMITMENTS

For the Watts Bar Nuclear Plant, TVA commits to:

- A revised response to violation 390/87-05-01 will be provided.

- The Vendor Information Corrective Action Program (CAP) Plan activities will identify the set of vendor documentation, defined as Vendor Technical Documents (VTD), containing vendor technical information necessary to support safety-related equipment installation, operation, maintenance, and testing. These VTDs will be consolidated into Vendor Technical Manuals (VTM), reviewed and "Approved for Use" by Nuclear Engineering (NE), and the VTMs controlled for all site organizations by Document Control and Records Management (DCRM).

- A listing of the vendor-supplied documents will be developed for safety-related components identified on the revised Q-List.

- As inconsistencies are identified between vendor technical information in upgraded manuals and existing vendor manuals, or between upgraded vendor manuals and installed equipment, an open item report (OIR) will be generated, tracked, and controlled in an open item management system.

- Drawings supplied by the vendor that depict information necessary to support safety-related plant activities are to be maintained in an as-constructed or configuration controlled status independent of the VTM.

- As inconsistencies are identified between vendor technical information in upgraded manuals and existing vendor documents, or between upgraded vendor manuals and installed equipment, an OIR will be generated, tracked, and controlled in an open item management system.

- Upon revision/issue of "Approved for Use" VTMs, the VTM will be reviewed by the affected plant organizations. Plant instructions and procedures (e.g., operating procedures, maintenance instructions, inservice test/inspection procedures) will be evaluated and revised if necessary to incorporate current information.

- Cross-references will be established and maintained to document the relationships between TVA documents and vendor-supplied documents that are referenced in them.

- NE will perform an analysis of the data gathered during this [confirmation of plant adequacy] review. The analysis will identify those areas/attributes for which plant adequacy is confirmed.

- Any conflicts or omissions will be identified and analyzed to determine the need to perform a physical confirmation of the adequacy of plant features. Required corrective action will be initiated using the WBN Design Control and Condition Adverse to Quality Report (CAQR) Programs.

ENCLOSURE 2

LIST OF COMMITMENTS

- Recurrence control will consist of the enhancement of site-level instructions and procedures to improve the control and maintenance of vendor information.

- Procedures will be revised to require that vendor document cross-references be used in the development of design changes as part of the upgraded design change control process.

- Vendors will be contacted as necessary to ensure that controlled vendor documents remain current. Where vendors cannot be identified, have gone out of business, or will not supply information, TVA will ensure that sufficient attention is paid to equipment maintenance, replacement, and repair based on industry experience to compensate for the lack of vendor backup and to assure reliability.

- Training will be provided on the new and revised [vendor information] procedures emphasizing the importance of maintaining current and complete vendor information for safety-related components.