

TVA EMPLOYEE CONCERNS
SPECIAL PROGRAM

REPORT NUMBER: 201.4(B)

REPORT TYPE: SEQUOYAH ELEMENT
NON-RESTART JUSTIFICATION SUMMARY

REVISION NUMBER: 0

TITLE: Standards and Guides
o Policy and Practice on Utilization
o Adequacy and Completeness

PAGE 1 OF 2

REASON FOR REVISION:

PREPARATION

PREPARED BY:

D. A. Zwick

SIGNATURE

10/18/86
DATE

REVIEWS

~~PEER:~~

[Signature]

SIGNATURE

10/21/86
DATE

TAS *[initials]*

[Signature]

SIGNATURE

12/15/86
DATE

CONCURRENCES

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PDR ADOCK 05000327
P PDR

SIGNATURE

DATE

DT Clift

10/22/86

CEG-H:

George R. McHale

10-2386

SRP:

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12-17-86
DATE

APPROVED BY:

[Signature]
ECSP MANAGER

12-18-86
DATE

N/A

MANAGER OF NUCLEAR POWER
CONCURRENCE (FINAL REPORT ONLY)

DATE

*SRP Secretary's signature denotes SRP concurrences are in files.
10/18/86 - 02110

SEQUOYAH NUCLEAR PLANT
ENGINEERING RELATED EMPLOYEE CONCERNS
SPECIAL PROGRAM
NON-RESTART JUSTIFICATION SUMMARY

SUBCATEGORY/ELEMENT 201.4(B)

The issues identified in this element refer to possible programmatic deficiencies in the engineering design process.

The issues address misuse, and lack of use of both industry and TVA engineering standards and guides.

Items in this element are considered to be addressing those non-mandatory industry standards, and non-mandatory TVA engineering standards and guides. Such standards and guides are included as applicable in design output documents.

Procedures place the responsibility for application of these engineering standards and guides on the engineer (i.e., they are used or not as applicable to the design, at the discretion of the engineer).

This type of situation, if found to be valid, would represent a programmatic deficiency that must be formally addressed as needed improvement in the design process.

However, full implementation of this improvement is not considered to be a requirement for plant restart, because the issues do not present a programmatic problem with specific safety-significance.

Items such as mandatory regulatory guides and mandatory industry standards will be addressed as restart items in element reports 204.4 and 201.3 where they are used in nuclear safety significant design criteria.

ATTACHMENT: List of Issues for Programmatic

ELEMENT NO. 201.4(B)

Date: 10/05/86

SUBCATEGORY 201 - INCORPORATION OF REQUIREMENTS AND COMMITMENTS IN DESIGN

ELEMENT NUMBER 201.4

LIST OF PROGRAMMATIC ISSUES

ELEMENT DESCRIPTION

APPLICABLE
EMPLOYEE CONCERNS

SQN RESTART - NO

DATE: 10/05/86

Standards and Guides

- o Policy and Practice on Utilization *
- o Adequacy and Completeness

WI-85-100-019
WI-85-100-038
IN-86-259-X11
BNP-QCP-10.35-8-26-2

CONCERN NUMBER(S)	ISSUES	ELEMENT WHERE ADDRESSED	RESPON- SIBLE	GENERAL APPROACH/METHODOLOGY FOR ELEMENT REPORT
WI-85-100-038 Design/installation drawings do not always represent or include design requirements. Design guides/standards are utilized only when designers want to use them. Design guides/standards are inadequate in many areas, and there are misuses, such as applicable parts are not referenced or excerpted as requirements. CI has no further information. Anonymous concern via letter.	1. Design/Installation Drawings do not always represent design requirements.	204.4	BW	<u>Issues 3 through 6</u>
	2. Design/Installation Drawings do not always include design requirements.	204.4	BW	1. Review engineering procedures and their references to guides and standards to determine which requirements are to be included on the drawings.
	3. Design Guides and Standards are only used when desired by Designer.	201.4	DZ	2. Establish examples of drawings from each discipline to be reviewed against design requirements.
	4. Design Guides and Standards are inadequate in many areas.	201.4	DZ	3. Review drawings and evaluate.
	5. Design Guides and Standards are misused.	201.4	DZ	
	6. Applicable parts of Guides/Standards are not referenced or excerpted as requirements on drawings.	201.4	DZ	
- - -				
BNP-QCP-10.35-8-26-2 Engineering can do a job within their standards, then they change those standards after the job is complete.	1. Engineering changes TVA standards after the job is complete, perhaps because the completed job did not meet the original standards.	201.4	DZ	<u>Issue 1</u>
				1. The word standard is interpreted to mean "criteria" or design basis, (i.e., a TVA Standard) since an industry standard cannot be changed by TVA.
				2. Review appropriate "deviation" reports which describe cases where standards were violated.
				3. Evaluate magnitude of review findings back as far as start of original construction.

SUBCATEGORY 201 - INCORPORATION OF REQUIREMENTS AND COMMITMENTS IN DESIGN

ELEMENT NUMBER 201.4

LIST OF PROGRAMMATIC ISSUES

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EMPLOYEE CONCERNSSQN RESTART - NO

DATE: 10/05/86

Standards and Guides

- o Policy and Practice on Utilization
- o Adequacy and Completeness

WI-85-100-019
 WI-85-100-038
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<u>CONCERN NUMBER(S)</u>	<u>ISSUES</u>	<u>ELEMENT WHERE ADDRESSED</u>	<u>RESPON- SIBLE</u>	<u>GENERAL APPROACH/METHODOLOGY FOR ELEMENT REPORT</u>
WI-85-100-019 Electrical Standards and Guides are treated as guides, and are not incorporated in design criteria requirements. Electrical design criteria, where it exists, is not complete, is vague, and in general is inadequate. CI has no further information. Anonymous concern via letter.	1. Electrical and other Engineering Standards are treated as guides only.	201.4	DZ	<u>Issues 1 through 4</u>
	2. Electrical and other Engineering Standards are treated as guides only.	201.4	DZ	1. Review Engineering procedures to determine how standards and guides are to applied.
	3. Electrical and other Engineering Standards are not incorporated in Design Criteria.	201.4	DZ	2. Has this issue been identified in prior evaluations (audits, INPO report.)?
	4. Electrical and other Engineering Guides are not incorporated in Design Criteria.	201.4	DZ	3. Evaluate if option for use is given to designer.
	5. Electrical and other Engineering Design Criteria do not always exist.	201.3	DZ	<u>Issues 5 through 8</u>
	6. Existing Electrical and other Engineering Design Criteria are not always complete.	201.3	DZ	See element report 201.3
	7. Existing Electrical and other Engineering Design Criteria are vague.	201.3	DZ	
	8. Existing Electrical and other Engineering Design Criteria are inadequate.	201.3	DZ	

SUBCATEGORY 201 - INCORPORATION OF REQUIREMENTS AND COMMITMENTS IN DESIGN

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<u>CONCERN NUMBER(S)</u>	<u>ISSUES</u>	<u>ELEMENT WHERE ADDRESSED</u>	<u>RESPON- SIBLE</u>	<u>GENERAL APPROACH/METHODOLOGY FOR ELEMENT REPORT</u>
IN-86-259-X11 If TVA electrical procedures do not include IEEE standards requirements or their equivalent, numerous problems can result. Construction Dept. concern. CI has no further information. No follow-up required.	1. TVA electrical procedures do not include IEEE standard requirements or their equivalent, therefore, numerous problems can result.	201.4	DZ	Issue 1 through 3
	2. CI refers to IEEE requirements in particular.	213.4	ELEC.	1. Implications is that concern is related only to electrical procedures, however, we will examine broader scope.
	3. Other TVA Engineering procedures do not include industry standards requirements.	201.4	DZ	2. Determine if these issues have been identified in any other prior review (i.e., QA Audit, INPO findings, etc.). 3. Review Design Baseline and Verification Program for Sequoyah Plant to see if program will adequately address this issue. 4. Do current procedures cover this issue to prevent recurrence of problem? 5. Coordinate response with Electrical group, element report 213.4.

REFERENCE - ECPS120J-ECPS121C
 FREQUENCY - REQUEST
 ONP - ISSS - RWM

TENNESSEE VALLEY AUTHORITY
 OFFICE OF NUCLEAR POWER
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)
 LIST OF EMPLOYEE CONCERN INFORMATION

PAGE - 45
 RUN TIME - 12:57:19
 RUN DATE - 12/02/86

CATEGORY: EN DES PROCESS & OUTPUT

SUBCATEGORY: 20104 STANDARDS AND GUIDES

CONCERN NUMBER	CAT	SUB CAT	S H R D PLT LOC	GENERIC APPL B B S W F L Q B	QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	KEYWORD A KEYWORD B KEYWORD C KEYWORD D
IN -86-259-X11 T50149	EN EN	20104 21304	S WBN	Y Y Y Y K-FORM	1-85-545-WBN	SR	IF TVA ELECTRICAL PROCEDURES DO NOT INCLUDE IEEE STD. REQUIREMENTS OR THEIR EQUIVALENT, NUMEROUS PROBLEMS CAN RESULT. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION. NO FOLLOW-UP REQUIRED.	PROCEDURES STANDARDS ELECTRICAL GENERAL
QCP10.35-8-262	EN	20104	N BLN	Y Y Y Y REPORT		SR	ENGINEERING CAN DO A JOB WITHIN THEIR STANDARDS, THEN THEY CHANGE THOSE STANDARDS AFTER THE JOB IS COMPLETE.	
WI -85-100-019 T50212	EN EN EN	20103 20104 21303	S WBN	Y Y Y Y REPORT		SR	ELECTRICAL STANDARDS AND GUIDES ARE TREATED AS GUIDES, AND ARE NOT INCORPORATED IN DESIGN CRITERIA REQUIREMENTS. ELECTRICAL DESIGN CRITERIA, WHERE IT EXISTS, IS NOT COMPLETE, IS VAGUE, AND IN GENERAL IS INADEQUATE. CI HAS NO FURTHER INFORMATION. ANONYMOUS CONCERN VIA LETTER.	STANDARDS DESIGN RELATED ELECTRICAL GENERAL
WI -85-100-038 T50213	EN EN EN	20104 20106 20404	S WBN	Y Y Y Y REPORT		SR	DESIGN/INSTALLATION DRAWINGS DO NOT ALWAYS REPRESENT OR INCLUDE DESIGN REQUIREMENTS. DESIGN GUIDES/STANDARDS ARE UTILIZED ONLY WHEN DESIGNERS WANT TO SUE THEM. DESIGN GUIDES/STANDARDS ARE INADEQUATE IN MANY AREAS, AND THERE ARE MISUSES, SUCH AS APPLICABLE PARTS ARE NOT REFERENCED OR EXCERPTED AS REQUIREMENTS. CI HAS NO FURTHER INFORMATION. ANONYMOUS CONCERN VIA LETTER.	DRAWINGS NONCONFORMANCE ENGINEERING GENERAL

4 CONCERNS FOR CATEGORY EN SUBCATEGORY 20104