

T03 920224 868

FEB 24 1992

Corrective Action/ACP Manager, J.D. CHRISTENSEN, SITE QUALITY MANAGER, TSB IE-WBN
WATTS BAR NUCLEAR PLANT (WBN) - DETERMINATION FOR REPORTABILITY FOR
SCAC WBP 890616 SCA (RO)

The subject document has been evaluated by Site Licensing in accordance with procedure SSP-4.05. The reportability determination is as follows:

Reportable under 10 CFR 50.55(e) Yes ☒ No ☐ N/A ☐

Reportable under 10 CFR 21 Yes ☐ No ☒ N/A ☐

Additional remarks: THIS MEMORANDUM SUPERCEDES THE PREVIOUS REPORTABILITY DETERMINATION PERFORMED FOR CASE WBP 890616 (T03 891214 967). BASED ON INFORMATION RECEIVED FROM LIMITROQUE 3-20-90, TWO UNIT 2 VALVE ACTUATORS COULD CONTAIN DEFECTIVE MOTOR MOUNTING GEARS. THIS DEFICIENCY WAS REPORTED FOR UNIT 1 AS WBP-50-890/89-09. BOTH TVA AND THE LIMITROQUE CORP. HAVE REPORTED THE DEFICIENCY UNDER 10CFR21. NO FURTHER REPORTING UNDER 10CFR21 IS REQUIRED. (NOTE: UNIT 2 HCCO STATUS EVALUATION SHEETS WILL REQUIRE REVISION.)

The reportability worksheets are attached.

T. F. Quinn for

P. L. Pace
Supervisor, Compliance Licensing
FSB 2K-WBN

Attachment

cc (Attachment):

RIMS, MR 2F-C

S. A. Ballew, QAC 1B-WBN

J. H. Garrity, FSB 1A-WBN (if reportable)

G. L. Pannell, FSB 2K-WBN (if reportable)

R. T. Purcell, FSB 2K-WBN (if reportable)

Responsible Organization Mgr. L.L. JACKSON, PCT MGR. (ACTING), MOB 2B-WBN

J. E. Sanders, FSB 2K-WBN

D. F. HELMS, MOB 2K-WBN

T. H. SEATON, MOB 2K-WBN

SIGNIFICANT CORRECTIVE ACTION REPORT

Continued

WBP 890616 91A (20)

STEP 4 - By Duty Plant or Licensing Manager as applicable

Meets Time Requirements 1 & 2

(1C) Deficiency Reportable: ☒ Yes ☐ No

Specify

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(2C) LER No. N/A 92-92

(3C) Potentially affects operability at other sites: ☒ No ☐ Yes

Location

REMOVED UNDER ORDER WBP 890532

(4C) Signature

Thomas E. Dean

Date

2/24/92

STEP 5 - By Initiator Hand carry to Management Reviewer

STEP 6 - By Management Reviewer

Meets Time Requirements 1 & 2

(1D) Meets SCAR Criteria ☐ Yes ☐ No - Justification

(2D) ACP No.

(3D) Responsible Organization

(4D) Coordinated with

(5D) Signature

Date

STEP 7 - By Management Reviewer Forward to CAQ Coordinator for TROI update and delivery to responsible organization

STEP 8 - By Responsible Organization

(1E) Generic Review Required ☐ No ☐ Yes - Location(2E) Disposition Repair ☐ Accept-As-Is ☐ Rework ☐ Scrap ☐ Other ☐

(3E) Completion Date

(4E) Root Cause Code

(5E) Interim Actions

(6E) Corrective Actions

Meets Time Requirements 3 & 4

(7E) Recurrence Control Actions

(Use and attach SCAR continuation sheets if necessary)

Meets Time Requirements 1

Concurrence	Signature	Date	Approvals	Signature	Date
Preparer			QA		
Supervisor			Dept. Mgr.		
Action Org.			Plant Mgr.		
Action Org.					
Action Org.					

CLOSURE

	Signature	Date
(1F) All Actions Complete		
(2F) Responsible Supv. / Mgr.		
(3F) ANI / ANII		
(4F) Tags Removed		
(5F) QA Verification		
(6F) CAQ Coordinator		

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PART 21 EVALUATION SHEET

If all "No's," STOP HERE. The item is not reportable. Go to D. If any "Yes's," GO TO C

- C. Could the deviation or noncompliance have caused a substantial safety hazard? (By definition, item A2 constitutes a substantial safety hazard.)

Yes [☒] No [☐]

If "No," this item is not reportable - If Yes, this item is reportable under Part 21.

- D. Is this item potentially reportable by NP under Part 21? Yes [☒] No [☐]

Prepared by: Dennis W. QuinnDate 2-24-92Responsible Manager: Thomas J. Quinn for RPDate 2/24/92

SITE LICENSING MANAGER REVIEW (OR DESIGNEE)

- E. Has this ~~item been~~ reported by TVA, another Licensee, or by a Vendor?

Yes [☒] No [☐]

➔ If "yes," a separate 10 CFR 21 report is not required.
If "no," complete a Part 21 Report (App. C) and notify the manager, NLRA, or the VP NAL&F.

- F. Is this ~~item~~ reportable under 10 CFR 50.73 (LER), 10 CFR 50.55(a) or 10 CFR 73.71? If "yes," provide Report No. OR 50-371/92-03

Yes [☒] No [☐]

Approved for transmittal to Manager, NLRA

N/A TELDRA 2/24/92
NOT REPORTABLE AS PART 21

Tracking Data:

- (a) Date forwarded to Manager, NLRA _____
(b) Date received by Manager, NLRA _____
(c) Date Senior Vice President, Nuclear Power, informed _____
(d) Date NRC notified _____

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PART 21 EVALUATION SHEET

Type of Document SMAR References NBP 890616 SCM (RO)

A. Does the deficiency involve:

1. A failure of goods and services supplied to TVA to comply with Atomic Energy Act, applicable NRC license requirements and regulations or any rule or order issued by NRC to TVA.
Yes [] No [☒]
If yes, go to C
2. A procured basic component failure resulting in a condition or circumstance that could contribute to exceeding a safety limit as defined by plant technical specifications.
Yes [] No [☒]
If yes, go to C
3. A departure from the technical requirements for a delivered component or service as set forth in a procurement document. Delivery occurs upon acceptance by TVA (e.g., at receipt inspection).
Yes [☒] No []
If yes, go to B
4. The plant security system or an unauthorized release of confidential information concerning the plant security system.
Yes [] No [☒]
If yes, go to C

Answer all 4 questions above. If all "No's," this deficiency is not reportable. Go to "D." If any "Yes's," continue as indicated by the applicable "GO TO" statement.

B. Is component or service necessary to ensure:

1. The integrity of the reactor coolant pressure boundary?
Yes [] No [☒]
2. The capability to shut down the reactor and maintain it in a safe shutdown condition?
Yes [☒] No []
3. The capability to prevent or mitigate the consequences of accidents which could result in potential offsite exposures comparable to these referred to in 10 CFR 100.11?
Yes [☒] No []

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DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Item A is AFFIRMATIVE, and Item B (1, 2, 3, or 4) is AFFIRMATIVE,
and Item C is INDETERMINATE, this item is: _____

If A, B(1,2,3 or 4), and C are affirmative, then the deficiency is
Reportable _____

If A, B(1,2,3 and 4), or C is negative, then the deficiency is
Not Reportable _____

If A is affirmative & B(1,2,3 or 4) is affirmative or indeterminate,
and C is indeterminate,

(or)

If A is affirmative & B(1,2,3 or 4) is indeterminate and C is
affirmative, then the deficiency is
Potentially Reportable ✓

The NRC Inspection Manual, Part 9900, has been considered in making this
reportability determination. 58

(Evaluator's Initials)

Determination performed by James W. Deane Date 2-24-92

Determination approved by Thomas L. Deane for PL Date 2/24/92

Date NRC ^{OPERATIONS} ~~Region II~~ Notified 2/24/92 Inspector Thomas ANDREWS

Notification made by Thomas L. Deane

Construction Deficiency Report (CDR) No. 50-391/92-03

(* UNIT 2 ONLY. PREVIOUSLY REPORTED AS 50-390/89-09 FOR UNIT 1.)

WBN

NRC REPORTING REQUIREMENTS

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WORKSHEET FOR 10 CFR 50.55(e)

- C. This deficiency, were it to have remained uncorrected, could have affected adversely the safety of operations of the plant at any time throughout the expected lifetime of the plant. Therefore, this item is reportable.

Indeterminate ☒ Yes ☐ No ☐

Basis: VALVES 2-FCV-78-21-B AND 2-FCV-78-22-A PROVIDE A FLOWPATH FROM
THE PWSI TO THE CS DUMPS. IF THESE VALVES SHOULD FAIL TO OPEN WHEN
CALLED UPON TO MITIGATE A CONTAINMENT PRESSURE TRANSIENT, THERE WOULD
BE A SUBSTANTIAL DELAY WAITING FOR AN OPERATOR TO MANUALLY OPEN THE VALVE
OR WAITING FOR EMERGENCY CORE COOLING TO GO INTO THE RECIRCULATION MODE.
THIS COULD PERMIT EXCESSIVE PRESSURE BUILDUP INSIDE CONTAINMENT.

ALTHOUGH THE TWO POTENTIALLY AFFECTED LIMITEQUE ACTUATOR MOTOR
PISTON GEARS HAVE NOT BEEN INSPECTED, THE ACTUATOR SERIAL NUMBERS
ARE WITHIN THE SCOPE OF LIMITEQUE'S 3-20-90 NRC/RAI NOTIFICATION
TO NRC AS BEING SUSCEPTIBLE. THERE IS A GOOD CHANCE THAT THESE
TWO MOTOR PISTON GEARS ARE DEFECTIVE.

WBN

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WORKSHEET FOR 10 CFR 50.55(e)

2. A significant deficiency in final design as approved and released for construction such that the design does not conform to the criteria and bases stated in the Final Safety Analysis Report (FSAR) or the Construction Permit (CP).

Indeterminate _____ Yes _____ No ☒

Basis (Reference FSAR or CP section): THE DEFICIENCY APPEARS TO HAVE RESULTED FROM IMPROPER MANUFACTURE (CONSTRUCTION). DRAWINGS ALL TVA POSSESSION DO NOT SPECIFY A MOTOR PINION GEAR KEYWAY SLOT DEPTH.

3. A significant deficiency in construction of ☒ or significant damage to _____ a structure, system, or component (SSC) which will require extensive evaluation ☒, extensive redesign _____, or extensive repair _____ to meet the criteria and bases stated in the FSAR or CP or to otherwise establish the adequacy of the SSC to perform its intended safety function.

Indeterminate _____ Yes ☒ No _____

Basis: THE DEFICIENCY APPEARS TO HAVE RESULTED DURING CONSTRUCTION OF THE MOTOR PINION GEAR. THE MACHINERY'S HANDBOOK WAS NOT FOLLOWED. DETECHING THE CRACK AND EXTENT OF CONDITION APPEAR TO REPRESENT AN EXTENSIVE EVALUATION FOR LIMIT TORQUE. CORRECTIVE ACTION BY LIMIT TORQUE IS CONSIDERED EXTENSIVE.

4. A significant deviation from performance specifications which will require extensive evaluation _____, extensive redesign _____, or extensive repair _____ to establish the adequacy of a SSC to meet the criteria and bases stated in the FSAR or CP or to otherwise establish the adequacy of the SSC to perform its intended safety function.

Indeterminate _____ Yes _____ No ☒

Basis: NO DEVIATION FROM PERFORMANCE SPECIFICATIONS WAS DOCUMENTED.

WBN

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FORMS FOR EVALUATING REPORTABILITY
Page 1 of 4DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Plant/Unit WAB BAR NUCLEAR PLANT - UNIT 2 Item Number WBP 890616 SEA (RO)
Title EXCESSIVE KEYWAY SLOT DEPTH IN LIMITORQUE ACTUATOR MOTOR PINION GEAR.

Description of Deficiency: CORR WBP 890532 DOCUMENTED THE FAILURE OF A UNIT 1
LIMITORQUE ACTUATOR ON VALVE 1-FV-72-21-B AND DAMAGE TO THE LIMITORQUE ACTUATOR
ON VALVE 1-FV-72-22-A DUE TO EXCESSIVE MOTOR PINION GEAR KEYWAY SLOT DEPTH.
THIS DEFICIENCY WAS REPORTED TO LIRC AS COR 50-390/89-09. THIS SAME DEFICIENCY
COULD EXIST ON THE COUNTERPART UNIT 2 LIMITORQUE ACTUATORS.

A. Deficiency is in design ☒ or construction ☒. Yes ☒ No ☐
Basis: WHILE THE DEFICIENCY APPEARS TO BE A MANUFACTURING (CONSTRUCTION)
DEFICIENCY, AOR DESIGN COULD HAVE CAUSED THE DEFICIENCY.

B. The Deficiency Represents:

1. A significant breakdown in a portion of the quality assurance program conducted in accordance with 10 CFR 50, Appendix B. (TVA ☒)
Vendor ☒

Indeterminate ☒ Yes ☐ No ☐

Basis: THE DEFICIENCY OCCURRED WHILE THE PARTS WERE BEING MANUFACTURED
BY LIMITORQUE. THE CAUSE FOR THE EXCESSIVE MOTOR PINION GEAR KEYWAY SLOT
DEPTH HAS NOT BEEN CONVEYED TO TVA.