

TVA FAX COVER

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Message: REAVAILABILITY OF DEFICIENCIES PER

10 CFR 60.55 (e)

From: **Watts Bar Nuclear Plant - TVA**

Name: Thomas DEAN

Organization: WBN Site Licensing

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Corrective Action/ACP Manager, J. CHRISTENSEN QAC - 1A - WBN

WATTS BAR NUCLEAR PLANT (WBN) - DETERMINATION OF REPORTABILITY FOR

WBSCA 920124 Rev. 0

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

Reportable under 10 CFR 50.55(e): Yes No

Additional remarks: THE LACK OF NUTS AND LOCKWASHERS ON DC OUTPUT
BREAKERS IN CABINET OF 125 V VITAL CHARGERS COULD RESULT
IN COMPONENT BECOMING DISLOADED AND POTENTIALLY NON-FUNCTIONAL.
THESE CHARGERS ARE SAFETY RELATED, REQUIRED FOR ACTIVITIES
POST ACCIDENT AND POST - SEISMIC EVENT.

The reportability worksheets are attached.

P. L. Pace

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

DWH:LLE
Attachment(s)

cc (Attachment(s)):

- RIMS, QAC 1G-WBN
- S. A. Balfew, QAC 1A-WBN
- D. E. Moody, MOB 2R-WBN--(if reportable)
- W. J. Museler, FSB 1A-WBN--(if reportable)
- G. L. Pannell, FSB 2K-WBN--(if reportable)
- J. E. Sanders, FSB 2K-WBN
- NRC Resident Inspector, FSB 1J-WBN--(if reportable)
- Responsible Organization Mgr., WELLSHOT JOB - C, WBN

APPENDIX E-2

FORMS FOR EVALUATING REPORTABILITY
DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Page 1 of 5

PLANT/UNIT Watts Bar Unit 1

Item Number WBSA920124 Rev. 0

TITLE: DC OUTPUT BREAKER NOT SECURED TO CABINET OF 125V VITAL CHARGER.

DESCRIPTION OF DEFICIENCY: 125V VITAL CHARGER DC OUTPUT BREAKER MOUNTING STUDS APPEAR TO BE SUBSTITUTIONS FOR THE CORRECT FASTENERS. THERE WERE NO NUTS OR LOCKWASHERS INSTALLED TO SECURE THE BREAKER INSIDE THE CABINET OF THE CHARGER.

I. Does the deficiency involve the construction of a facility or activity, or a basic component supplied for such facility or activity?

- A. Construction means the analysis, design, manufacture, fabrication, quality assurance, placement, erection, installation, modification, inspection, or testing of a facility or activity and consulting services related to the facility or activity that are safety related. YES NO

Explain: DEFICIENCY INVOLVES THE INSTALLATION OF THE D.C. OUTPUT BREAKER WITHIN THE SAFETY RELATED 125V VITAL CHARGERS. REVIEW OF SIX CHARGERS SHOWS SIMILAR CONDITIONS EXIST IN FIVE. BREAKERS INSTALLED WITHOUT NUTS OR LOCKWASHERS.

B. Basic Component

NOTE: In all cases, basic component includes safety related design (as approved and released for construction), analysis, inspection, testing, fabrication, replacement parts, or consulting services that are associated with the component hardware, whether these services are performed by the component supplier or other supplier.

Any plant structure, system, or component, or any part thereof, necessary to assure:

- 1. The integrity of the reactor coolant pressure boundary. YES NO

APPENDIX E-2

FORMS FOR EVALUATING REPORTABILITY
DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Page 2 of 5

- 2. The capability to shut down the reactor and maintain it in a safe shutdown condition. YES NO
- 3. The capability to mitigate the consequences of accidents which could result in potential offsite exposures comparable to those referred to in 10 CFR 100.11. YES NO

Explain: CHARGERS ARE USED TO MAINTAIN BATTERIES AT REQUIRED LEVEL OF CHARGE BEFORE AND AFTER AN ACCIDENT OR SEISMIC EVENT. LOSS OF CHARGER FUNCTION WHEN BATTERIES ARE NEAR JEOPARDIZES CAPABILITY TO SHUT DOWN REACTOR AND MAINTAIN A SAFE SHUTDOWN CC

If all questions under items I.A and I.B are marked NO, the deficiency is not reportable under 10 CFR 50.55(e). Go to IV.

II. Did the construction of a facility or activity or a basic component supplied for such facility or activity:

- A. Fail to comply with the Atomic Energy Act of 1954, as amended, or any applicable rule, regulation, order, or license of the Commission? (10CFR50.55(e)[2]) YES NO

Explain: THIS DEFICIENCY DOES NOT REPRESENT A FAILURE TO COMPLY WITH THE ATOMIC ENERGY ACT OF 1954, OR OTHER LICENSE CONDITIONS OR NRC ORDERS.

B. Contain a defect? (10CFR50.55(e)[3]).

NOTE: Deviation means a departure from the technical or quality assurance requirements defined in procurement documents, safety analysis report, construction permit or other documents provided for installed basic components.

- 1. A deviation in a basic component delivered to a purchaser for use in a facility or activity subject to a construction permit? YES NO

APPENDIX E-2

FORMS FOR EVALUATING REPORTABILITY
DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Page 3 of 5

2. The installation, use, or operation of a basic component containing a defect as defined in Item No. 1 above. YES NO

3. A deviation in a portion of a facility subject to the construction permit? YES NO

Explain: INSTALLED D.C. BREAKER IS NOT FASTENED PROPERLY IN THE
NORMAL AND SPARE VITAL CHARGERS. IT IS INDETERMINATE
WHETHER VENDOR SUPPLIED CHARGERS IN THIS STATE OF ASSEMBLY.

C. Undergo any significant breakdown in any portion of the quality assurance program conducted pursuant to the requirements of 10 CFR 50, Appendix B, which could have produced a defect in a basic component? (10CFR50.55(e)[4]) YES NO

Explain: PER MEMO DATED 12/20/92 (STEVE BAILEY TO D. HEARN) IT WAS
DETERMINED THAT A QA PROGRAM BREAKDOWN OR NONIMPLEMENTATION
OF 10 CFR 50 APP B DOES NOT EXIST.

If all questions under Items II.A, II.B, and II.C are marked NO, the deficiency is not reportable under 10 CFR 50.55(e). Go to IV.

If any question under Items II.A, II.B, or II.C is marked YES, then continue with Item III.

APPENDIX E-2

FORMS FOR EVALUATING REPORTABILITY
DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Page 4 of 5

III. Could the deficiency create a substantial safety hazard, were it to remain uncorrected?

Note: A substantial safety hazard is a loss of safety function to the extent that there is a major reduction in the degree of protection provided to public health and safety for any facility or activity authorized by the construction permit.

A. Moderate exposure to, or release of, licensed material.

- 1. Exposure in excess of 25 rem whole body (10 CFR 20.403)(a)(1). YES NO
- 2. Release of radioactive material to an unrestricted area in excess of 500 times the limit of 10 CFR 20, Appendix B, Table II (10 CFR 20.403(b)(2)). YES NO
- 3. Exposure of any individual in an unrestricted area to a dose to the whole body in any period of one calendar year in excess of 0.5 rem (10 CFR 20.105). YES NO

Explain: LOSS OF VITAL CHARGERS FOR THE BATTERIES WOULD NOT
CAUSE RADIATION EXPOSURES TO INCREASE.

B. Major degradation of essential safety-related equipment.

- 1. A loss of redundancy if, in conjunction with a single failure, a required safety function could not be performed. YES NO

Explain: THE INABILITY TO RECHARGE BATTERIES AFTER AN ACCIDENT
OR SEISMIC EVENT COULD LEAD TO DEGRADATION OF
SAFETY-RELATED EQUIPMENT.

APPENDIX E-2

FORMS FOR EVALUATING REPORTABILITY
DETERMINATION OF REPORTABILITY
WORKSHEET FOR 10 CFR 50.55(e)

Page 5 of 5

C. Major deficiencies in design, construction, inspection, test or operation.

- 1. A condition or circumstances which, under normal operating conditions or anticipated transient could contribute to exceeding a safety limit as defined in the facility technical specifications. YES NO
- 2. A condition or circumstance which, under normal operating conditions or anticipated transient, could cause an accident or, in the event of an accident due to other causes could, considering an independent single failure, result in a loss of safety function necessary to mitigate the consequences of the accident. YES NO
- 3. A deficiency which seriously compromised the ability of a confinement system to perform its designated function. YES NO

Explain: CHARGERS ARE USED TO MAINTAIN BATTERIES AT REQUIRED LEVEL OF CHARGE. LOSS OF CHARGER FUNCTION WHEN BATTERIES ARE WEAK JEOPARDIZES PERFORMANCE OF POST ACCIDENT SAFETY SYSTEM.

If all questions under Items III.A, III.B, and III.C are marked NO, the deficiency is not reportable under 10 CFR 50.55(e).
Go to IV.

If any of the questions in III.A, III.B, or III.C are marked YES, the condition is reportable under 10 CFR 50.55(e). Go to IV.

IV. ITEM IS: REPORTABLE X
NOT REPORTABLE _____

EVALUATION PERFORMED BY L. J. McSore DATE 12/29/92
DETERMINATION APPROVED BY T. J. Nean DATE 12/30/92
DATE NRC NOTIFIED 12/30/92 INSPECTOR _____
NOTIFICATION MADE BY _____