

October 21, 2004

LICENSEE: TENNESSEE VALLEY AUTHORITY
FACILITY: BROWNS FERRY NUCLEAR PLANT UNITS 1, 2 AND 3
SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON
SEPTEMBER 22, 2004, BETWEEN THE U.S. NUCLEAR REGULATORY
COMMISSION AND THE TENNESSEE VALLEY AUTHORITY CONCERNING
BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3, LICENSE RENEWAL
APPLICATION (TAC NOS. MC1704, MC1705 AND MC1706)

The U.S. Nuclear Regulatory Commission staff and representatives of Tennessee Valley Authority (TVA or the applicant) held a telephone conference call on September 22, 2004, to discuss questions related to Sections 2.3.2 and 2.3.3 of the Browns Ferry Nuclear Plant (BFN) license renewal application.

The conference call was useful in clarifying the intent of the staff's questions. On the basis of the discussion, the applicant was able to understand the staff's questions. The NRC staff acknowledged the applicants discussion and indicated that the clarification was understood. No staff decisions were made during the telephone conference call. In some cases, the applicant agreed to provide information for clarification.

Enclosure 1 contains a listing of the questions discussed with the applicant. Enclosure 2 provides a list of the telephone conference call participants. The applicant has had an opportunity to comment on this summary.

/RA/

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License Renewal Section A
License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket Nos. 50-259, 50-260 and 50-296

Enclosures: As stated

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**BROWNS FERRY NUCLEAR (BFN) PLANT, UNITS 1, 2 AND 3
LICENSE RENEWAL APPLICATION
DRAFT REQUEST FOR ADDITIONAL INFORMATION (D-RAI)
SCOPING AND SCREENING RESULTS OF MECHANICAL SYSTEMS
SECTIONS 2.3.2 AND 2.3.3**

Containment System: Reactor Building Ventilation Subsystem

D-RAI 2.3.2.1-1

For Browns Ferry Nuclear Plant, Units 1, 2 and 3 Containment System (Reactor Building Ventilation System), described in license renewal application (LRA) Section 2.3.2.1 and on LRA Drawings 1-47E865-1-LR, 1-47E865-3-LR, 2-47E2865-12-LR, 2-47E610-64-1-LR, 3-47E865-12-LR, and 3-47E610-64-1-LR, LRA Table 2.3.2.1, "Containment System" and LRA Table 3.2.2.1, "Containment System-Summary of Aging Management Evaluation" do not contain all the components of the reactor building ventilation system as highlighted on the drawing. For example, while the tables list bolting, ductwork, fittings, etc., they do not list housings for air cooling units, dampers and damper housings, cooling coil housings, nor valve bodies, just to name a few. Clarify whether these components and all other applicable components of the system, are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If these components are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate LRA tables. If these components are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

For BFN Units 1, 2, and 3 LRA, none of the air intake or exhaust structures except for LRA Section 2.3.3.8, "Ventilation System," include intake and exhaust screens within the scope of license renewal. Clarify whether screens for air intake and exhaust structures, for those systems described in LRA Section 2.3.2.1 are in the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If screens for intake and exhaust structures are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate tables. If screens for intake and exhaust structures are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.2.1-1.

Standby Gas Treatment System

D-RAI 2.3.2.2-1

For BFN Units 1, 2 and 3 Standby Gas Treatment System, described in LRA Section 2.3.2.2 and on LRA Drawing 0-47E865-11-LR, LRA Table 3.2.2.2, "Standby Gas Treatment System" and LRA Table 2.3.2.2, "Standby Gas Treatment System-Summary of Aging Management Evaluation" do not contain all the components of the system as highlighted on the drawing. For example, while the tables list bolting, ductwork, fittings, etc., they do not list fan housings, filter

housing, damper housing nor valve bodies, just to name a few. Clarify whether these components and all other applicable components of the system, including duct sealants, wall sealants, pressure boundary sealants, etc., are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If these components are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate LRA tables. If these components are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Also, provide clarification for the following LRA Drawing 0-47E865-11-LR that shows an interface (incoming arrow) at location H-3 indicating that incoming flow is from 1-47E865-1 at location F8, while interface drawing 1-47E865-1 shows Detail 1F1 at location F-8 with incoming flow from 0-47E865-1, H-2.

For BFN Units 1, 2, and 3 LRA, none of the air intake or exhaust structures except for LRA Section 2.3.3.8, "Ventilation System," include intake and exhaust screens within the scope of license renewal. Clarify whether screens for air intake and exhaust structures, for those systems described in LRA Section 2.3.2.2 are in the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If screens for intake and exhaust structures are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate tables. If screens for intake and exhaust structures are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.2.2-1.

Containment Inerting System

D-RAI 2.3.2.6-1

The containment inerting system is described in LRA Section 2.3.2.6 and depicted on LRA Drawings 1-47E860-1-LR, 2-47E860-1-LR, and 3-47E860-1-LR, respectively, for BFN Units 1, 2 and 3. However, the system components including piping, valves and equipments between (1) FCV76-17 and PCV 67-14 including downstream bypass line after BYV-76-542, and (2) between CKV-76-653 and CKV-76-659 are not shown within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If these components are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate LRA Tables 2.3.2.6 and 3.2.2.6. If these components are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.2.6-1.

Ventilation System: Radioactive Waste Building and Diesel Generator Ventilation Systems

D-RAI 2.3.3.8-1

Subsystem and Diesel Generator Ventilation Subsystem. For BFN Units 1, 2 and 3 Ventilation System, described in LRA Section 2.3.3.8 and on LRA Drawings 3-47E865-8-LR, 0-47E865-6-LR and 0-47E865-8-LR, LRA Table 2.3.3.8, "Ventilation System" and LRA Table 3.3.2.8, "Ventilation System-Summary of Aging Management Evaluation" do not contain all the components of the system, as highlighted on the drawings. For example, while the tables list bolting, ductwork, fittings, etc., they do not list damper housings including fire damper housings, fan housings, air intake or exhaust structures including screens, nor supply and exhaust grills just to name a few. Clarify whether these components and all other applicable components of the system are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If these components are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate LRA tables. If these components are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.3.8-1.

Heating, Ventilation, and Air Conditioning System (HVAC)

D-RAI 2.3.3.9-1

For BFN Units 1, 2 and 3 HVAC System, described in LRA Section 2.3.3.9 and on LRA Drawings 0-47E865-2-LR, 0-47E865-4-LR, 0-47E865-15-LR, 0-47E866-3-LR, 1-47E1865-4-LR, 2-47E2865-4-LR, 3-47E865-4-LR, and 3-47E3865-4-LR, 3-47E865-8-LR, LRA Table 2.3.3.9, "Heating, Ventilation, and Air Conditioning System" and LRA Table 2.3.3.9, "Heating, Ventilation, and Air Conditioning System-Summary of Aging Management Evaluation" do not contain all the components of the system as highlighted on the drawings. For example, while the tables list bolting, ductwork, fire dampers, fittings, flexible connectors, etc., they do not list fan housings, filter housings, cooling coil housings, damper housings including fire damper housings, metal lath screens, nor valve bodies, supply and return grills just to name a few. Clarify whether these components and all other applicable components of the system, including duct sealants, wall sealants, pressure boundary sealants, etc., are within the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with 10 CFR 54.21(a)(1). If these components are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate LRA tables. If these components are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

For BFN Units 1, 2, and 3 LRA, none of the air intake or exhaust structures except for LRA Section 2.3.3.8, "Ventilation System," include intake and exhaust screens within the scope of license renewal. Clarify whether screens for air intake and exhaust structures, for those systems described in LRA Section 2.3.3.9, are in the scope of license renewal in accordance with 10 CFR 54.4(a), and subject to aging management review in accordance with

10 CFR 54.21(a)(1). If screens for intake and exhaust structures are in the scope of license renewal, update the LRA by providing the applicable information in the appropriate tables. If screens for intake and exhaust structures are excluded from the scope of license renewal and not subject to an AMR, provide justification for the exclusion.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.3.9-1.

Turbine building HVAC System

D-RAI 2.3.3.9-2

Final Safety Analysis Report (FSAR) Section 10.12.5.2, "Turbine building," is included as part of the HVAC systems but not included in the LRA. Provide justification for the exclusion of turbine building ventilation system from the scope of the license renewal in accordance with 10 CFR 54.4, and subject to an AMR in accordance with 10 CFR 54.21.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a RAI 2.3.3.9-2.

**LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE
TO DISCUSS BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3
LICENSE RENEWAL APPLICATION
DRAFT REQUESTS FOR ADDITIONAL INFORMATION**

September 22, 2004

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