

SAFEGUARDS INFORMATION

October 28, 2004

Mr. Karl W. Singer
Chief Nuclear Officer and Executive Vice President
Tennessee Valley Authority
Browns Ferry Nuclear Plant, Units 1, 2, and 3
c/o Ms. Joan E. McCullum
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2, AND 3 - ADMINISTRATIVE CHANGE TO FACILITY OPERATING LICENSE IN CONJUNCTION WITH THE COMMISSION ORDER EA-03-086 REGARDING REVISED DESIGN BASIS THREAT (DBT); AND REVISIONS TO PHYSICAL SECURITY PLAN, TRAINING AND QUALIFICATION PLAN, AND SAFEGUARDS CONTINGENCY PLAN (TAC NOS. MC2892, MC2893, AND MC2894)

Dear Mr. Singer:

By letter dated April 29, 2004, Tennessee Valley Authority submitted a supplemental response in accordance with Order EA-03-086, the Order requiring compliance with the revised design basis threat, dated April 29, 2003, (DBT Order) for the Browns Ferry Nuclear Plant, Units 1, 2, and 3. Section III. A of the DBT Order required licensees to revise physical security plans (PSPs), training and qualification plans (T&Q Plans), and safeguards contingency plans (SCPs) to provide protection against the revised DBT set forth in Attachment 2 to the DBT Order. These revised plans, along with an implementation schedule, were required to be submitted to the Nuclear Regulatory Commission (NRC or the Commission) for review and approval no later than April 29, 2004.

The NRC staff's review of the Browns Ferry Nuclear Plant, Units 1, 2, and 3 PSP, SCP, and T&Q Plan submitted in your letter dated September 6, 2004, October 6, 2004, and October 22, 2004, as supplemented on May 21, 2004, July 7, 2004, July 15, 2004, July 26, 2004, August 11, 2004, September 1, 2004, has focused on ensuring the necessary programmatic elements are contained in these plans in order to provide high assurance that activities involving special nuclear material are not inimical to the common defense and security and do not constitute an unreasonable risk to the public health and safety.

NOTICE: Enclosure 2 contains Safeguards Information. Upon separation from Enclosure 2, this letter and Enclosure 1 are DECONTROLLED.

SAFEGUARDS INFORMATION

The NRC staff has determined that subject to subsequent inspection and evaluation, these plans contain the necessary programmatic elements that, when effectively implemented, will provide the required high assurance that Browns Ferry Nuclear Plant, Units 1, 2, and 3 will be protected against the revised DBT. The NRC staff, therefore, approves the PSP, SCP, and T&Q Plan for Browns Ferry Nuclear Plant, Units 1, 2, and 3. However, ultimately the effectiveness of these plans will be judged on your ability to meet regulatory requirements through facility implementing procedures and site practices. As such your facility implementing procedures and practices will continue to be subject to future NRC review and inspection, including NRC-conducted force-on-force exercises.

In addition, the NRC staff noted that your PSP included alternatives to certain requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Section 73.55. In each case, the NRC staff found that the alternative measure provides an equivalent level of protection to that of the associated requirement and meet the high assurance objective of 10 CFR 73.55(a). The NRC staff, therefore, approves the alternatives shown in the table below. The NRC staff's evaluation is discussed further in the enclosed Safety Evaluation (SE).

Approved Alternatives to the Requirements of 10 CFR Part 73

SE Section	PSP Section	Alternative to 10 CFR	Description
3.6.2	6.2	73.55(c)(2)	Protected Area (PA)/Vital Area (VA) separation barrier requirements
3.6.2	6.2	73.55(c)(3)	Isolation Zones
3.9.4.3	9.4.3	73.55(d)(4)	PA vehicle search requirements
3.9.4.4	9.4.4	73.55(d)(1)	PA personnel search requirements
3.9.5.2	9.5	73.55(d)(4)	PA access control requirements
3.10.1	10.1	73.55(c)(5)	PA illumination requirements
3.13.1	14.1	73.55(c)(1) 73.55(d)(7)(i)(B)	Temporary reclassification of VAs to PA status (devitalization)

Finally, consistent with Order EA-03-086, the Order requiring compliance with the revised design basis threat, (DBT Order) issued on April 29, 2003, conforming administrative changes to Facility Operating Licenses (FOLs) are required to ensure implementation of DBT Order requirements. Therefore, administrative license changes to FOL Nos. DPR-33, DPR-52 and DPR-68 are being made to incorporate the reference to the revised PSP, SCP, and T&Q Plan required by the DBT Order. These changes comply with the standards and requirements of the Atomic Energy Act of 1954, as amended and the Commission's rules and regulations set forth in 10 CFR Chapter I.

K. W. Singer

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Please replace the enclosed pages to your FOLs as indicated in Enclosure 1.

A copy of our SE with regard to your security plans (designated as Safeguards Information) is provided in Enclosure 2.

Sincerely,

/RA/

John A. Nakoski, Chief
Security Plan Review Team
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

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

Enclosures: 1. Administrative Change to FOL Nos. DPR-33, DPR-52, and DPR-68
2. Safety Evaluation Regarding the Security Plans (**SAFEGUARDS INFORMATION**)

cc w/encl 1only: See Mailing List
cc w/encls 1 and 2: Mr. J. M. Ogle

K. W. Singer

- 3 -

Please replace the enclosed pages to your FOLs as indicated in Enclosure 1.

A copy of our SE with regard to your security plans (designated as Safeguards Information) is provided in Enclosure 2.

Sincerely,

/RA/

John A. Nakoski, Chief
Security Plan Review Team
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

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cc w/encl 1only: See Mailing List
cc w/encls 1 and 2: Mr. J. M. Ogle

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County Mayor

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-259

BROWNS FERRY NUCLEAR PLANT, UNIT 1

ADMINISTRATIVE LICENSE CHANGE TO FACILITY OPERATING LICENSE

License No. DPR-33

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. Consistent with Order EA-03-086, the Order requiring compliance with the revised design basis threat, (DBT Order) issued on April 29, 2003, conforming administrative changes to Facility Operating Licenses (FOLs) are required to ensure implementation of the DBT Order requirements. Therefore, an administrative license change to FOL No. DPR-33 is being made to incorporate the reference to the revised Physical Security Plan, Safeguards Contingency Plan, and Training and Qualification Plan required by the DBT Order. These changes comply with the standards and requirements of the Atomic Energy Act (the Act) of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Chapter I.
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this administrative license change can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this administrative license change will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this administrative license change is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the FOL is changed, as indicated in the Attachment.
3. This administrative license change is effective as of its date of issuance and shall be implemented on or before October 29, 2004

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

John A. Nakoski, Chief
Security Plan Review Team
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the FOL No. DPR-33

Date of Issuance: October 28, 2004

CHANGES TO FACILITY OPERATING LICENSE NO. DPR-33

DOCKET NO. 50-259

Replace the following page of the Facility Operating License No. DPR-33 with the attached revised page as indicated. The revised page is identified by a revision date and contains marginal lines indicating the area of change.

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(11) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contains Safeguards Information protected under 10 CFR 73.21, is entitled: " Browns Ferry Nuclear Plant Physical Security Plan, Training and Qualification Plan, and Contingency Plan," submitted by letter dated September 10, 2004, and supplemented on October 22,2004.

(12) Deleted.

(13) Browns Ferry Nuclear Plant shall implement and maintain in effect all provisions of the approved Fire Protection Program as described in the Final Safety Analysis Report for BFN as approved in the SEs dated December 8, 1988, March 6, 1991, March 31, 1993, November 2, 1995 and Supplement dated November 3, 1989 subject to the following provision:

The licensee may make changes to the approved fire protection program without prior approval of the Commission only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

D. This amended license is effective as of the date of issuance and shall expire midnight on December 20, 2013.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By
S/ A. Giambusso
A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Date of Issuance: DEC 20 1973

See Appendix B for additional License Conditions.

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT 2

ADMINISTRATIVE LICENSE CHANGE TO FACILITY OPERATING LICENSE

License No. DPR-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. Consistent with Order EA-03-086, the Order requiring compliance with the revised design basis threat, (DBT Order) issued on April 29, 2003, conforming administrative changes to Facility Operating Licenses (FOLs) are required to ensure implementation of the DBT Order requirements. Therefore, an administrative license change to FOL No. DPR-52 is being made to incorporate the reference to the revised Physical Security Plan, Safeguards Contingency Plan, and Training and Qualification Plan required by the DBT Order. These changes comply with the standards and requirements of the Atomic Energy Act (the Act) of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Chapter I.
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this administrative license change can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this administrative license change will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this administrative license change is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the FOL is changed, as indicated in the Attachment.
3. This administrative license change is effective as of its date of issuance and shall be implemented on or before October 29, 2004

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

John A. Nakoski, Chief
Security Plan Review Team
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the FOL No. DPR-52

Date of Issuance: October 28, 2004

CHANGES TO FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Replace the following page of the Facility Operating License No. DPR-52 with the attached revised page as indicated. The revised page is identified by a revision date and contains marginal lines indicating the area of change.

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- (8) Deleted.
- (9) Deleted.
- (10) Deleted.
- (11) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contains Safeguards Information protected under 10 CFR 73.21, is entitled: “ Browns Ferry Nuclear Plant Physical Security Plan, Training and Qualification Plan, and Contingency Plan,” submitted by letter dated September 10, 2004, and supplemented on October 22,2004.

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-296

BROWNS FERRY NUCLEAR PLANT, UNIT 3

ADMINISTRATIVE LICENSE CHANGE TO FACILITY OPERATING LICENSE

License No. DPR-68

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. Consistent with Order EA-03-086, the Order requiring compliance with the revised design basis threat, (DBT Order) issued on April 29, 2003, conforming administrative changes to Facility Operating Licenses (FOLs) are required to ensure implementation of the DBT Order requirements. Therefore, an administrative license change to FOL No. DPR-68 is being made to incorporate the reference to the revised Physical Security Plan, Safeguards Contingency Plan, and Training and Qualification Plan required by the DBT Order. These changes comply with the standards and requirements of the Atomic Energy Act (the Act) of 1954, as amended, and the Commission's rules and regulations set forth in 10 CFR Chapter I.
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this administrative license change can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this administrative license change will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this administrative license change is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the FOL is changed, as indicated in the Attachment.
3. This administrative license change is effective as of its date of issuance and shall be implemented on or before October 29, 2004

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

John A. Nakoski, Chief
Security Plan Review Team
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the FOL No. DPR-68

Date of Issuance: October 28, 2004

CHANGES TO FACILITY OPERATING LICENSE NO. DPR-68

DOCKET NO. 50-296

Replace the following page of the Facility Operating License No. DPR-68 with the attached revised page as indicated. The revised page is identified by a revision date and contains marginal lines indicating the area of change.

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- (3) The licensee is authorized to relocate certain requirements included in Appendix A and the former Appendix B to licensee-controlled documents. Implementation of this amendment shall include the relocation of these requirements to the appropriate documents, as described in the licensee's application dated September 6, 1996, as supplemented May 1, August 14, November 5 and 14, December 3, 4, 11, 22, 23, 29, and 30, 1997, January 23, March 12, April 16, 20, and 28, May 7, 14, 19, and 27, and June 2, 5, 10 and 19, 1998, evaluated in the NRC staff's Safety Evaluation enclosed with this amendment. This amendment is effective immediately and shall be implemented within 90 days of the date of this amendment.

- (4) TVA will perform an analysis of the design basis loss-of-coolant accident to confirm compliance with General Design Criterion (GDC)-19 and offsite limits considering main steam isolation valve leakage and emergency core cooling system leakage. The results of this analysis will be submitted to the NRC for its review and approval by March 31, 1999. Following NRC approval, any required modifications will be implemented during the refueling outages scheduled for Spring 2000 for Unit 3 and Spring 2001 for Unit 2. TVA will maintain the ability to monitor radiological conditions during emergencies and administer potassium-iodide to control room operators to maintain doses within GDC-19 guidelines. This ability will be maintained until the required modifications, if any, are complete. This amendment is effective immediately.

- (5) Classroom and simulator training on all power uprate related changes that affect operator performance will be conducted prior to operating at uprated conditions. Simulator changes that are consistent with power uprate conditions will be made and simulator fidelity will be validated in accordance with ANSI/ANS 3.5-1985. Training and the plant simulator will be modified, as necessary, to incorporate changes identified during startup testing. This amendment is effective immediately.

- (6) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contains Safeguards Information protected under 10 CFR 73.21, is entitled: " Browns Ferry Nuclear Plant Physical Security Plan, Training and Qualification Plan, and Contingency Plan," submitted by letter dated September 10, 2004, and supplemented on October 22,2004.