



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

October 8, 1988

Docket Nos. 50-259/260/296

Mr. S. A. White  
Senior Vice President, Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: AMENDMENT NOS. 157, 153, AND 128 TO FACILITY OPERATING LICENSE NOS. DPR-33, DPR-52 AND DPR-68; PHYSICAL SECURITY PLAN (TAC 00121, 00122, 00123) - BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3

The Commission has issued the enclosed Amendment No. 157 to Facility Operating License No. DPR-33, Amendment No. 153 to Facility Operating License No. DPR-52, and Amendment No. 128 to Facility Operating License No. DPR-68 for the Browns Ferry Nuclear Plant, Units 1, 2 and 3, respectively. These amendments are in response to your submittals dated September 15, November 23, 1987 and May 24, 1988.

This amendment modifies paragraph 2.C.11 of the licenses for Units 1 and 2 and paragraph 2.C.6 of the license for Unit 3 to require compliance with the amended Physical Security Plan. This Plan was amended to conform to the requirements of 10 CFR 73.55. Consistent with the provisions of 10 CFR 73.55, search requirements must be implemented within 60 days and miscellaneous amendments within 180 days from the effective date of these amendments.

Our evaluation of the amendments to your Physical Security Plan for Browns Ferry Nuclear Plant, Units 1, 2 and 3 is contained in the enclosed Safeguards Evaluation Report. Based on this evaluation, we find that you meet the requirements of the Miscellaneous Amendments and Search Requirements revision to 10 CFR 73.55 and the recordkeeping requirements of 10 CFR 73.70.

We find that these amendments to your licenses are related solely to safeguards matters and do not involve any significant construction impacts. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(12). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

Based on the fact that these license amendments apply to the Physical Security Plan and incorporate into the licenses the latest requirements of your updated Physical Security Plan, we have concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action and that this action will be conducted in compliance with the

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//

Mr. S. A. White

-2-

Browns Ferry Nuclear Plant

CC:  
General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive  
E11 B33  
Knoxville, Tennessee 37902

Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
101 Marietta Street, N.W.  
Atlanta, Georgia 30323

Mr. R. L. Gridley  
Tennessee Valley Authority  
5N 157B Lookout Place  
Chattanooga, Tennessee 37402-2801

Resident Inspector/Browns Ferry NP  
U.S. Nuclear Regulatory Commission  
Route 12, Box 637  
Athens, Alabama 35611

Mr. C. Mason  
Tennessee Valley Authority  
Browns Ferry Nuclear Plant  
P.O. Box 2000  
Decatur, Alabama 35602

Dr. Henry Myers, Science Advisor  
Committee on Interior  
and Insular Affairs  
U. S. House of Representatives  
Washington, D.C. 20515

Mr. P. Carrier  
Tennessee Valley Authority  
Browns Ferry Nuclear Plant  
P.O. Box 2000  
Decatur, Alabama 35602

Tennessee Valley Authority  
Rockville Office  
11921 Rockville Pike  
Suite 402  
Rockville, Maryland 20852

Mr. D. L. Williams  
Tennessee Valley Authority  
400 West Summit Hill Drive  
W10 B85  
Knoxville, Tennessee 37902

Chairman, Limestone County Commission  
P.O. Box 188  
Athens, Alabama 35611

Claude Earl Fox, M.D.  
State Health Officer  
State Department of Public Health  
State Office Building  
Montgomery, Alabama 36130

Commission's regulations, and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Your Physical Security Plan consists of Safeguards Information required to be protected from unauthorized disclosure in accordance with the provisions of 10 CFR 73.21.

Notice of issuance will be included in the Commission's biweekly Federal Register Notice.

Sincerely,

Original Signed by

Suzanne Black, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Enclosures:

1. Amendment No. 157 to License No. DPR-33
2. Amendment No. 153 to License No. DPR-52
3. Amendment No. 128 to License No. DPR-68
4. Safeguards Evaluation Report

cc w/enclosures:  
See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-259

BROWNS FERRY NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 157  
License No. DPR-33

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated September 15, 1987, November 23, 1987 and May 24, 1988, complies with the standard and requirements of the Atomic Energy Act of 1954, as amended (the Act), 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 amendment 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 amendment 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 amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, paragraph 2.C.11 of Facility Operating License No. DPR-33 is hereby amended to read as follows:

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Plan", with revisions submitted through May 24, 1988 and "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

3. This license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Suzanne Black*

Suzanne Black, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Date of Issuance: October 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 157

FACILITY OPERATING LICENSE NO. DPR-33

DOCKET NO. 50-259

Revise the Appendix A Technical Specifications by removing the page identified below and inserting the enclosed page. The revised page is identified by the captioned amendment number and contains marginal lines indicating the area of change.

REMOVE

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INSERT

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(9) The facility may be modified as described in 'Browns Ferry Nuclear Plant Units 1 and 2 Emergency Core Cooling Systems Low Pressure Coolant Injection Modifications For Performance Improvement (October 1977)' submitted by letter dated December 28, 1977 and supplemented by letter dated December 13, 1978.

Amdt. 51  
5-11-79

(10) The licensee shall follow all provisions of the NRC approved Guard Training & Qualification Plan, including amendments and changes made pursuant to 10 CFR 50.54(p). The approved Guard Training & Qualification Plan is identified as "Browns Ferry Nuclear Power Station Guard Training & Qualification Plan," dated August 17, 1979 as revised by pages dated January 24, 1980, May 21, 1980, October 1, 1980, and March 9, 1981 and as may subsequently be revised in accordance with 10 CFR 50.54(p). The Guard Training & Qualification Plan shall be followed, in accordance with 10 CFR 73.55(b), 60 days after the date of this amendment.

Added  
per  
AMDT  
72  
6-15-81

(11) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Security Plan", with revisions submitted through May 24, 1988; "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 153  
License No. DPR-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated September 15, 1987, November 23, 1987 and May 24, 1988, complies with the standard and requirements of the Atomic Energy Act of 1954, as amended (the Act), 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 amendment 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 amendment 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 amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

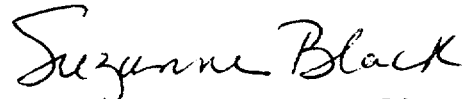


2. Accordingly, paragraph 2.C.11 of Facility Operating License No. DPR-52 is hereby amended to read as follows:

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Plan", with revisions submitted through May 24, 1988 and "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

3. This license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Suzanne Black, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Date of Issuance: October 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 153

FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Revise the Appendix A Technical Specifications by removing the page identified below and inserting the enclosed page. The revised page is identified by the captioned amendment number and contains marginal lines indicating the area of change.

REMOVE

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(8) The licensee shall maintain in effect and fully implement all provisions of the Commission approved physical security plan including amendments made pursuant to the authority of 10 CFR 50.54(p). The approved plan, which contains information protected under 10 CFR 73.21, is entitled "Browns Ferry Nuclear Plant Physical Security Plan," dated May 15, 1982 (TVA letter dated June 11, 1982) and revisions submitted by TVA letters dated August 31, 1982 and October 19, 1982.

Amdt  
# 109  
10-29-

Notwithstanding the statement in Section 9.1 of the physical security plan, the licensee shall maintain positive access control over containment in accordance with the requirements of 10 CFR 73.55(d)(8).

(9) The facility may be modified as described in 'Browns Ferry Nuclear Plant Units 1 and 2 Emergency Core Cooling Systems Low Pressure Coolant Injection Modifications for Performance Improvement (October 1977)' submitted by letter dated December 28, 1977 and supplemented by letter dated December 13, 1978.

Amdt. 45  
5-11-79

(10) The licensee shall follow all provisions of the NRC approved Guard Training & Qualification Plan, including amendments and changes made pursuant to 10 CFR 50.54(p). The approved Guard Training & Qualification Plan is identified as "Browns Ferry Nuclear Power Station Guard Training & Qualification Plan," dated August 17, 1979, as revised by pages dated January 24, 1980, May 21, 1980, October 1, 1980, and March 9, 1981 and as may subsequently be revised in accordance with 10 CFR 50.54(p). The Guard Training & Qualification Plan shall be followed, in accordance with 10 CFR 73.55(b), 60 days after the date of this amendment.

Added  
per  
Amdt.  
#69  
6-15-81

(11) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Security Plan", with revisions submitted through May 24, 1988; "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-296

BROWNS FERRY NUCLEAR PLANT, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 128  
License No. DPR-68

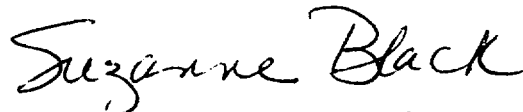
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Tennessee Valley Authority (the licensee) dated September 15, 1987, November 23, 1987 and May 24, 1988, complies with the standard and requirements of the Atomic Energy Act of 1954, as amended (the Act), 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 amendment 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 amendment 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 amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, paragraph 2.C.6 of Facility Operating License No. DPR-68 is hereby amended to read as follows:

The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Plan, with revisions submitted through May 24, 1988 and "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

3. This license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Suzanne Black, Assistant Director  
for Projects  
TVA Projects Division  
Office of Special Projects

Date of Issuance: October 8, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 128

FACILITY OPERATING LICENSE NO. DPR-68

DOCKET NO. 50-296

Revise the Appendix A Technical Specifications by removing the page identified below and inserting the enclosed page. The revised page is identified by the captioned amendment number and contains marginal lines indicating the area of change.

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(5) The licensee shall follow all provisions of the NRC approved Guard Training & Qualification Plan, including amendments and changes made pursuant to 10 CFR 50.54(p). The approved Guard Training & Qualification Plan is identified as "Browns Ferry Nuclear Power Station Guard Training & Qualification Plan," dated August 17, 1979, as revised by pages dated January 24, 1980, May 21, 1980, October 1, 1980, and March 9, 1981 and as may subsequently be revised in accordance with 10 CFR 50.54(p). The Guard Training & Qualification Plan shall be followed, in accordance with 10 CFR 73.55(b), 60 days after the date of this amendment.

Added

by

Am. T.

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6-15-81

(6) The licensee shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The plans, which contain Safeguards Information protected under 10 CFR 73.21, are entitled: "Browns Ferry Physical Security Plan", with revisions submitted through May 24, 1988; "Browns Ferry Security Personnel Training and Qualification Plan", with revisions submitted through April 16, 1987; and "Browns Ferry Safeguards Contingency Plan", with revisions submitted through June 27, 1986. Changes made in accordance with 10 CFR 73.55 shall be implemented in accordance with the schedule set forth therein.

D. The licensee shall maintain in effect and fully implement all provisions of the Commission's Staff-approved physical security plan, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). The approved security plan consists of a proprietary document titled, "Browns Ferry Nuclear Plant Physical Security Plan", which was submitted with the licensee's letter dated April 23, 1974, as supplemented by information submitted with letters dated June 27, 1974 and August 27, 1974.

(3) The licensee is authorized to temporarily store low-level radioactive waste in an existing covered pavilion that is situated outside the security fence, as presently located, but inside the site exclusion area. The total amount of low-level waste to be stored shall not exceed 1320 curies of total activity. This authorization expires two years from the effective date of this amendment and is subject to all the conditions and restrictions in TVA's application dated January 21, 1980.

Am. T. 32  
3-17-80

E. This license is subject to the following additional conditions:



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF SPECIAL PROJECTS

SUPPORTING AMENDMENT NO. 157 TO FACILITY OPERATING LICENSE NO. DPR-33

AMENDMENT NO. 153 TO FACILITY OPERATING LICENSE NO. DPR-52

AMENDMENT NO. 128 TO FACILITY OPERATING LICENSE NO. DPR-68

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3

DOCKETS NOS. 50-259, 50-260 AND 50-296

1.0 Introduction

The Tennessee Valley Authority (TVA) has filed with the Nuclear Regulatory Commission revisions to their Physical Security Plan for the Browns Ferry Nuclear Plant, Units 1, 2, and 3.

This Safeguards Evaluation Report (SGER) summarizes how the licensee proposes to meet the Miscellaneous Amendments and Search Requirements revisions of 10 CFR Part 73.55.

Based on a review of the Physical Security Plan, the staff has concluded that the proposed changes satisfy Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and accompanying 10 CFR 73.70 record reporting requirements. Accordingly, the protection provided will ensure that the public health and safety will not be endangered.

2.0 Personnel Search

The licensee has provided commitments in the Physical Security Plan to provide a search of all individuals entering the protected area except bona fide Federal, State and local law enforcement personnel on official duty, through the use of equipment designed for the detection of firearms, explosives, and incendiary devices. In addition, the licensee has provided commitments to conduct a physical pat-down search of an individual whenever the licensee has cause to suspect that the individual is attempting to introduce firearms, explosives, or incendiary devices into the protected areas; or whenever firearms or explosives detection equipment is out of service or not operating satisfactorily.

3.0 Vital Area Access

TVA has modified their Browns Ferry Nuclear Plant, Units 1, 2, and 3 Physical Security Plan to limit unescorted access to vital areas during nonemergency conditions to individuals who require access in order to perform their duties. They have established current authorization access lists for each vital area which are updated and approved by the cognizant manager or supervisor at least



least once every 31 days. TVA has assured that only individuals whose specific duties require access to vital areas during nonemergency conditions are included on their site access list. TVA has provided further assurance by revoking access and retrieving badges and other entry devices, prior to or simultaneously, with notification of termination of an individual's unescorted facility access.

Based upon commitments made by the licensee in revisions to their Physical Security Plan, the staff has concluded that TVA meets the vital area access requirements of 10 CFR 73.55(d)(7)(i)(A)(B) and (C).

#### 4.0 Locks and Keys

The licensee has committed to providing methods to reduce the probability of compromise of keys, locks, combinations, and related access control devices used to control access to their protected areas and vital areas. These methods include the rotation of keys, locks, combinations, and related access control devices every 12 months or the changing of these devices whenever there is evidence or suspicion that any key, lock, combination or related access control device may have been compromised or when an individual who has had access to any of these devices has had their access terminated due to a lack of trustworthiness, reliability or inadequate work performance. Only persons granted unescorted facility access are issued such entry devices.

Based upon commitments made by the licensee in revisions to their Physical Security Plan, the staff has concluded that TVA meets the requirements of 10 CFR 73.55 (d)(9) to reduce the probability of compromise of keys, locks, combinations, and related access control devices.

#### 5.0 Emergency Access

The licensee has provided commitments to provide for the rapid ingress and egress of individuals during emergency conditions or situations that could lead to emergency conditions by assuring prompt access to vital equipment. An annual review of their physical security plans and contingency plans and procedures will be conducted to evaluate their potential impact on plant and personnel safety. Emergency access is granted by a licensed senior operator.

Based upon commitments made by the licensee in revisions to their Physical Security Plan, the staff has concluded that TVA meets the requirements of 10 CFR 73.55 (d)(7)(ii)(B) to assure access to vital equipment during emergencies or to situations that may lead to an emergency.

## 6.0 Protection of Secondary Power Supplies

The licensee has provided commitments to protect the on-site secondary power supply system for alarm annunciator equipment and non-portable communications equipment by including such equipment within a vital area boundary.

Based upon commitments made by the licensee in revisions to their Physical Security Plan, the staff has concluded that TVA meets the requirements of 10 CFR 73.55(e) in protecting the secondary power supplies of alarm annunciator equipment and non-portable communications equipment.

## 7.0 Vital Area Entry/Exit Logging

The licensee has committed to maintaining a log indicating name, badge number, time of entry, and time of exit of all individuals granted access to a vital area except those individuals entering or exiting the reactor control room.

Based upon commitments made by the licensee in revisions to their Physical Security Plan, the staff has concluded that TVA meets the requirements of 10 CFR 73.70(d) by maintaining entry/exit log of individuals accessing vital areas (except the reactor control room).

## 8.0 Conclusion

Based upon the above evaluation, we find that the licensee has met the requirements of the Miscellaneous Amendments and Search Requirements revision to 10 CFR Part 73.55 and the record reporting requirements of 10 CFR Part 73.70.

Principal Contributor: Gene McPeck, NRR

Dated: October 8, 1988