

August 30, 2001

Mr. David A. Christian
Sr. Vice President and Chief Nuclear Officer
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5000 Dominion Blvd.
Glen Allen, Virginia 23060-6711

SUBJECT: SURRY UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS RE: REMOVAL OF OBSOLETE LICENSE CONDITIONS FROM THE FACILITY OPERATING LICENSES (FOLS), EDITORIAL CHANGES TO FOLS, AND RELATED CHANGES TO THE TECHNICAL SPECIFICATIONS (TAC NOS. MB0157 AND MB0158)

Dear Mr. Christian:

The Commission has issued the enclosed Amendment No. 227 to Facility Operating License (FOL) No. DPR-32 and Amendment No. 227 to FOL No. DPR-37 for the Surry Power Station, Unit Nos. 1 and 2, respectively. The amendments change the FOLs and Technical Specifications (TS) in response to your application transmitted by letter dated September 22, 2000.

These amendments (Enclosures 1 and 2) revise the FOLs and the TS to remove obsolete license conditions, make editorial changes to the FOLs, and implement associated changes to the TS and Bases.

Details of the staff's review are contained in the associated Safety Evaluation (Enclosure 3). The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/RA/

Gordon E. Edison, Sr. Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-280 and 50-281

Enclosures:

1. Amendment No. 227 to DPR-32
2. Amendment No. 227 to DPR-37
3. Safety Evaluation

cc w/encls: See next page

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VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-280

SURRY POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 227
License No. DPR-32

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated September 22, 2000, complies with the standards 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, the license is amended by changes to the license itself and to the Technical Specifications as indicated in the attachments to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-32 is hereby amended to read as follows:

(B) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 227 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA by Richard P. Correia for/

Richard L. Emch, Jr., Chief, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachments:

1. Changes to License No. DPR-32
2. Changes to the Technical Specifications

Date of Issuance: August 30, 2001

ATTACHMENT 1

LICENSE AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-32

DOCKET NO. 50-280

Remove Pages

License page 2
License page 3
License page 3a
License page 3b
License page 4
License page 5
License page 5a

Insert Pages

License page 2
License page 3

License page 4

VIRGINIA ELECTRIC AND POWER COMPANY

DOCKET NO. 50-281

SURRY POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 227

License No. DPR-37

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Virginia Electric and Power Company (the licensee) dated September 22, 2000, complies with the standards 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, the license is amended by changes to the license itself and to the Technical Specifications as indicated in the attachments to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-37 is hereby amended to read as follows:

(B) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 227 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA by Richard P. Correia for/

Richard L. Emch, Jr., Chief, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachments:

1. Changes to License No. DPR-37
2. Changes to the Technical Specifications

Date of Issuance: August 30, 2001

ATTACHMENT 1

LICENSE AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-37

DOCKET NO. 50-281

Remove Pages

License page 2

License page 3

License page 4

License page 5

License page 6

License page 6a

Insert Pages

License page 2

License page 3

License page 4

ATTACHMENT 2

LICENSE AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-32

LICENSE AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-37

DOCKET NOS. 50-280 AND 50-281

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages as indicated. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change.

Remove Pages

TS 3.7-20
TS 3.14-1
TS 3.14-4
TS 3.14-5
TS 6.4-10

Insert Pages

TS 3.7-20
TS 3.14-1
TS 3.14-4
- - -
TS 6.4-10

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-32
AND AMENDMENT NO. 227 TO FACILITY OPERATING LICENSE NO. DPR-37
VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION, UNIT NOS. 1 AND 2
DOCKET NOS. 50-280 AND 50-281

1.0 INTRODUCTION

By application dated September 22, 2000, Virginia Electric and Power Company (the licensee) requested changes to Facility Operating License (FOL) Nos. DPR-32 and DPR-37 for the Surry Power Station, Unit Nos. 1 and 2, respectively, and the associated Technical Specifications (TS). These amendments would revise the FOLs and the TS to remove obsolete license conditions, make editorial changes in the FOLs, and implement associated changes to the TS and Bases.

2.0 BACKGROUND

The FOLs for Surry Units 1 and 2 were issued in the early 1970s. Since that time numerous changes have occurred in the NRC's Rules and Regulations and in the NRC's practice of incorporating associated requirements into FOLs and TS. In addition, since issuance and subsequent amendment of the Surry FOLs, some requirements in the Surry FOLs have become obsolete. Accordingly, the licensee has proposed changes to the Surry FOLs and TS as follows:

1. Removal of license conditions associated with completed facility modifications (including the Steam Generator Repair Program, as well as support modifications related to Leak-Before-Break Technology)
2. Removal of superseded license conditions (addressing security)
3. Relocation of secondary water chemistry monitoring program requirements to the TS
4. Removal of expired license conditions and TS (addressing service water piping restoration)
5. Editorial changes.

3.0 DISCUSSION AND EVALUATION

The NRC staff has addressed the licensee's proposed changes to the FOLs following the order in which they appear within the FOLs. Unless otherwise stated, the proposed change applies to both FOLs. In its application dated September 22, 2000, the licensee proposed to remove the section numbers for those license conditions that are being deleted, and to renumber the remaining license conditions. For administrative reasons, we have decided to retain the section numbers of deleted license conditions. This was discussed, and agreed to, with the licensee in telephone conversations on July 18 and August 27, 2001. Therefore, we have retained the section numbers for deleted license conditions 3.E, 3.F, 3.G, 3.H, 3.K, 3.L, 3.M, and 3.O.

Section 1. The licensee has proposed that the word "licensee's" replace the word "applicant's" in connection with the Surry site description, in FOL Section 1 for consistency with the rest of the license. The NRC staff notes that Section 1 of the Surry Unit 2 FOL already uses the word "licensee's." The intent of the Surry Unit 2 FOL is acceptable and no change is necessary. The proposed change to the Surry Unit 1 FOL provides consistency with the rest of the license and is acceptable.

The licensee has also proposed that the references to the Final Safety Analysis Report (FSAR) in Section 1 be changed to the Updated Final Safety Analysis Report. In addition, the reference to FSAR Amendment Nos. 12-33 would be deleted. Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, Section 50.71 requires licensees to periodically update their FSAR and adopts the term "updated" to refer to this process (10 CFR 50.71(e)(6) for the purpose of records retention). Thus, the Updated Final Safety Analysis is understood to mean the most up-to-date version of the FSAR and no further identification via amendment numbers is necessary. Accordingly, the licensee's proposed change is acceptable.

Section 2.B. The licensee has proposed that the references to the Final Safety Analysis Report (FSAR) in Section 2.B be changed to the Updated Final Safety Analysis Report. In addition, the licensee has also proposed that the reference to the FSAR being "supplemented and amended" be deleted. This proposed change is acceptable for the same reason as stated above for Section 1.

Section 2.C. The licensee has proposed that a typographical error be corrected in that the word "scaled" should actually be "sealed" as it relates to neutron sources. The NRC staff notes that the current version of the Surry FOLs contains the word "sealed" as it relates to neutron sources. The intent of the proposed changes to the FOLs is acceptable, and no change is needed.

2.E. The licensee has proposed that the word "and" be added to Section 2.E following the phrase "Pursuant to the Act" for consistency within the subsections of Section 2. The NRC staff concludes that the proposed change is a valid editorial correction, has no other effect on the FOLs, and is acceptable.

3.G. The licensee has proposed the complete deletion of Section 3.G, which addresses the Steam Generator (SG) Repair Program. Surry License Amendments 47 (Unit 1) and 46 (Unit 2) dated January 22, 1979, approved the SG Repair Program for each unit and incorporated License Condition 3.G into DPR-32 and DPR-37. License Condition 3.G identifies various requirements that were applicable during the implementation of the SG Repair Program. The SG Repair Program has been completed for Surry Units 1 and 2, as documented in Inspection Report 50-280/281-22, dated September 4, 1981, for Unit 1, and in a letter from R.C. Lewis (NRC) to J. H. Ferguson, dated March 14, 1980, for Unit 2. Accordingly, the deletion of the contents of Section 3.G is acceptable in that the subject program has been completed.

3.H. The licensee has proposed the deletion of Section 3.H, which addresses the Surry Physical Security Plan. Various amendments to the Surry Operating Licenses have been issued in response to the requirements set forth in 10 CFR Part 73, "Physical Protection of Plants and Materials." License Amendment Nos. 48 and 47 for Surry Units 1 and Unit 2, respectively, dated February 27, 1979, added License Condition 3.H that required the licensee to maintain in effect and fully implement a "Physical Security Plan." Amendment No. 61, dated September 5, 1980, added License Condition 3.J for both Surry licenses that required the licensee to maintain in effect and fully implement a "Safeguards Contingency Plan" within 60 days of issuance of the amendment. Finally, Amendment No. 63 dated December 18, 1980, added License Condition 3.L for both Surry licenses that required the licensee to maintain in effect and fully implement a "Nuclear Security Personnel Training and Qualifications Program" within 60 days of issuance of the amendment and that all security personnel would be fully qualified within 2 years of the amendment. Following the issuance of Amendment No. 63, License Conditions 3.H, 3.J, and 3.L were all applicable and appropriate. Each dealt with a separate aspect of the requirements of 10 CFR Part 73.

On June 20, 1988, the NRC issued License Amendment No. 121 for both Surry licenses. This amendment implemented various changes to the physical security programs at Surry by revising License Condition 3.J in its entirety. The new License Condition 3.J required the licensee to maintain and fully implement the various NRC-approved elements of the "Physical Security Plan," the "Safeguard Contingency Plan," and "Guard Training and Qualification Plan." In each case, the most recent approved revisions were also specified. Issuance of the revised License Condition 3.J effectively superseded the requirements of License Conditions 3.H and 3.L by combining all aspects of the 10 CFR Part 73 requirements into License Condition 3.J. The NRC staff concludes that License Conditions 3.H and 3.L have been superseded and, as such, are no longer necessary and should be deleted.

3.I. The licensee has proposed that the title "Fire Protection" be added to License Condition 3.I. The title "Fire Protection" describes the content of the License Condition, has no other effect on the FOLs, and is acceptable.

- 3.J The licensee has proposed that the title "Physical Protection" be added to License Condition 3.J. The title "Physical Protection" describes the content of the License Condition, has no other effect on the FOLs, and is acceptable.
- 3.K The licensee has proposed the deletion of License Condition 3.K relating to the Secondary Water Chemistry Monitoring Program. The requirements of License Condition 3.K would be relocated to the facility TS as new TS 6.4.P. Current NRC staff licensing practice locates monitoring programs in the facility TS (Appendix A to the FOL) rather than incorporating them into the FOL itself. The NRC staff concludes that the current license condition requirements in Section 3.K for monitoring secondary water chemistry would be unchanged in their transfer to the TS and, as part of Section 6.4 of the TS, would still be part of the Surry FOLs. Accordingly, the contents of License Condition 3.K are deleted and incorporation of this condition in TS 6.4.P is acceptable.
- 3.L The licensee has proposed deletion of License Condition 3.L concerning provisions of the Commission-approved Nuclear Security Personnel Training and Qualification Program. The NRC conclusions relative to License Condition 3.L are contained in the previous discussion and evaluation relative to License Condition 3.H. For reasons stated above, License Condition 3.L is deleted.
- 3.M The licensee has proposed the deletion of License Condition 3.M, which authorizes the modification of the design of the reactor coolant pump (RCP) and SG supports in accordance with the licensee's submittals dated November 5, 1985, December 3, 1985, and January 14, 1986. These three submittals provided the basis and supporting evaluation for the re-design of the primary coolant loop piping to remove 18 large bore and 6 small bore snubbers associated with the RCPs and SGs.
- Following the issuance of Amendment 108, which added License Condition 3.M, the 18 large bore and 6 small bore snubbers were removed during the refueling outages in 1986. Revision 7 to the UFSAR dated August 26, 1988, reflected the change in the design of the RCP and SG supports and the basis for the use of Leak-Before-Break in the re-design. Since the snubber modifications are complete, License Condition 3.M is no longer necessary and is deleted.
- 3.O The licensee has proposed deletion of License Condition 3.O regarding the use of a temporary facility modification associated with the Surry service water (SW) restoration project, undertaken in the fall of 1990, which included inspection, repair, and refurbishment of the SW piping. As part of this project, a temporary SW supply to the component cooling water heat exchangers (CCHXs) was required. The licensee submitted a request for a license amendment and a change to the Surry TS by letter dated June 19, 1998, and supplemented on July 14, 1998. Surry License Amendment No. 216 was issued on August 26, 1998, and added License Condition 3.O to allow this temporary supply line jumper to provide SW to the CCHXs to facilitate maintenance on the existing, permanent supply line. License Amendment No. 216 also revised TS Table 3.7-2, TS 3.14, and the Basis Section of 3.14 to facilitate the use of the temporary SW supply line jumper to the CCHXs.

As part of the approval of this license amendment, the use of the temporary jumper was restricted to Unit 1 refueling outages, scheduled for Fall of 1998 and Spring of 2000; both of these refueling outages have been completed. Consequently, License Condition 3.O is no longer applicable; therefore, License Condition 3.O and the modifications to the above-stated TS sections and TS Bases to facilitate the use of the temporary SW jumper are no longer necessary, and the proposal to delete them is acceptable. In addition, as part of the deletion of the subject information from TS Table 3.7-2, an administrative change (footnote "A" is deleted and remaining footnote "B" becomes footnote "A") was proposed to avoid confusion. This proposed administrative change has no other effect on TS requirements and is acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Virginia State official was notified of the proposed issuance of the amendments. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment has been published (66 FR 45705) in the *Federal Register* on August 29, 2001. Accordingly, the Commission has determined that the issuance of these amendments will not result in any environmental impacts other than those evaluated in the Final Environmental Statement.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: G. E. Edison
D. Jaffe

Date: August 30, 2001

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Surry Power Station

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