

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

MAR 0.3 1986

Docket No. 50-352

Mr. Edward G. Bauer, Jr. Vice President and General Counsel Philadelphia Electric Company 2301 Market Street Philadelphia, Pennsylvania 19101

Dear Mr. Bauer:

SUBJECT: ISSUANCE OF AMENDMENT NO. 2 TO FACILITY OPERATING LICENSE NO. NPF-39, LIMERICK GENERATING STATION, UNIT 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 2 to Facility Operating License No. NFF-39 for the Limerick Generating Station, Unit 1. This amendment is in response to your letters dated December 18, 1985, January 29, February 5, February 25 and March 3, 1986. The amendment extends on a one-time-only basis the surveillance requirements in the Technical Specifications for containment isolation valves which must be performed nominally every eighteen or twenty-four months and which can be done only when the plant is shutdown. Your reason for this extension is that Limerick, Unit 1 has experienced an extended startup program schedule and has been shutdown for much of the first surveillance interval. Therefore you have requested a temporary extension of twelve weeks in the surveillance testing to allow the testing to be performed during a maintenance and surveillance testing outage which will begin on or before May 26, 1986. A copy of the related safety evaluation supporting Amendment No. 2 to Facility Operating License NPF-39 is enclosed.

The approval of these amendments also requires a one-time exemption from certain Type C local leakage rate test requirements of 10 CFR Part 50, Appendix J. In response to your letter of December 18, 1985, such a one-time exemption is being issued separately.

Sincerely,

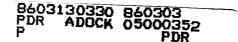
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Walter R. Butler, Director BWR Project Directorate No. 4 Division of BWR Licensing

Enclosures:

- 1. Amendment No. 2 to NPF-39
- 2. Safety Evaluation

cc: See next page



Mr. Edward G. Bauer, Jr Philadelphia Electric Company

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المسادة الدائمة الأفاسية

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Philadelphia Electric Company

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Limerick Generating Station 1/2

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Docket No. 50-352

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The approval of these amendments also requires a one-time exemption from certain Type C local leakage rate test requirements of 10 CFR Part 50, Appendix J. In response to your letter of December 18, 1985, such a one-time exemption is being issued separately.

Sincerely,

Original signed by

Walter R. Butler, Director BWR Project Directorate No. 4 Division of BWR Licensing

Enclosures: 1. Amendment No. 2 to NPF-39

2. Safety Evaluation

cc: See next page

DISTRIBUTION See next page

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PD#4/C 020/3/86

3. This amendment is effective immediately and is to be fully implemented within 30 days of the date of issuance.

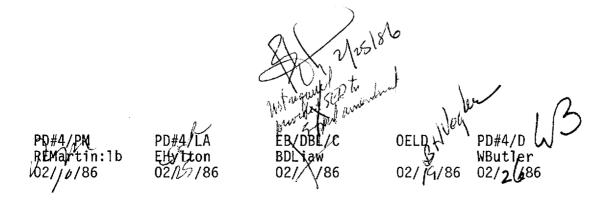
FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

Walter R. Butler, Director Project Directorate No. 4 Division of BWR Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: MAR 0.3 1986



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

PHILADELPHIA ELECTRIC COMPANY

DOCKET NO. 50-352

LIMERICK GENERATING STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2 License No. NPF-39

The Nuclear Regulatory Commission (the Commission) has found that:

- A. The application for amendment filed by the Philadelphia Electric Company dated December 18, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
- B. The facility will operate in conformity with the application, the provisions of the Act, and the 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 set forth in 10 CPR Chapter I;
- D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
- 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.
- Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this amendment and Paragraph 2.C(2) of Facility Operating License No. NPF-39 is hereby amended to read as follows:
 - (2) Technical Specifications

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NUCLEAR REGULS,

1.

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 2, are hereby incorporated in the license. PECo shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan. 3. This amendment is effective immediately and is to be fully implemented within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Walter R. Butler, Director Project Directorate No. 4 Division of BWR Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: MAR 03 1986

ATTACHMENT TO LICENSE AMENDMENT NO. 2

FACILITY OPERATING LICENSE NO. NPF-39

DOCKET NO. 50-352

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. Also to be replaced are the following overleaf pages to the amended pages.

| Amendment Pages | <u>Overleaf</u> Pages |
|-----------------|-----------------------|
| 3/4 6-4 | 3/4 6-3 |
| 3/4 6-19 | 3/4 6-20 |
| 3/4 6-20 | 3/4 6-19 |
| 3/4 6-21 | 3/4 6-22 |
| 3/4 6-24 | 3/4 6-23 |
| 3/4 6-25 | 3/4 6-26 |
| 3/4 6-27 | 3/4 6-28 |

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CONTAINMENT SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

- b. The combined leakage rate for all penetrations and all valves listed in Table 3.6.3-1, except for main steam line isolation valves* and valves which are hydrostatically tested per Table 3.6.3-1, subject to Type B and C tests to less than or equal to 0.60 L_a, and
- c. The leakage rate to less than or equal to 11.5 scf per hour for any one main steam line through the isolation valves, and
- d. The combined leakage rate for all containment isolation values in hydrostatically tested lines which pentrate the primary containment to less than or equal to 1 gpm times the total number of such values,

prior to increasing reactor coolant system temperature above 200°F.

SURVEILLANCE REQUIREMENTS

4.6.1.2 The primary containment leakage rates shall be demonstrated at the following test schedule and shall be determined in conformance with the criteria specified in Appendix J of 10 CFR Part 50 using the methods and provisions of ANSI 45.4-1972 and BN-TOP-1 and verifying the result by the Mass Point Methodology described in ANSI N56.8-1981:

- a. Three Type A Overall Integrated Containment Leakage Rate tests shall be conducted at 40 \pm 10 month intervals during shutdown at P_a, 44.0 psig, during each 10-year service period. The third test of each set shall be conducted during the shutdown for the 10-year plant inservice inspection.
- b. If any periodic Type A test fails to meet 0.75 L_a , the test schedule for subsequent Type A tests shall be reviewed and approved by the Commission. If two consecutive Type A tests fail to meet 0.75 L_a ,

a Type A test shall be performed at least every 18 months until two consecutive Type A tests meet 0.75 L_a , at which time the above test schedule may be resumed.

- c. The accuracy of each Type A test shall be verified by a supplemental test which:
 - 1. Confirms the accuracy of the test by verifying that the difference between the supplemental data and the Type A test data is within 0.25 L_a. The formula to be used is: $[L_0 + L_{am} 0.25 L_a] \leq L_c \leq [L_0 + L_{am} + 0.25 L_a]$ where L_c = supplemental test result; L_0 = superimposed leakage; L_{am} = measured Type A leakage.
 - 2. Has duration sufficient to establish accurately the change in leakage rate between the Type A test and the supplemental test.
 - 3. Requires the quantity of gas injected into the containment or bled from the containment during the supplemental test to be between 0.75 L_a and 1.25 L_a .

*Exemption to Appendix "J" to 10 CFR Part 50.

LIMERICK - UNIT 1

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- d. Type B and C tests shall be conducted with gas at P_a, 44.0 psig^{*}, at intervals no greater than 24 months^{**} except for tests involving:
 - 1. Air locks,
 - 2. Main steam line isolation valves,
 - 3. Containment isolation valves in hydrostatically tested lines which penetrate the primary containment, and
- e. Air locks shall be tested and demonstrated OPERABLE per Surveillance Requirement 4.6.1.3.
- f. Main steam line isolation valves shall be leak tested at least once per 18 months.
- g. Containment isolation values in hydrostatically tested lines which penetrate the primary containment shall be leak tested at least once per 18 months.**
- h. The provisions of Specification 4.0.2 are not applicable to Specifications 4.6.1.2a., 4.6.1.2b., 4.6.1.2c., 4.6.1.2d., and 4.6.1.2e.

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*Unless a hydrostatic test is required per Table 3.6.3-1.

Amendment No. 2

^{**}A Type C test interval extension to May 26, 1986 is permissible for primary containment isolation valves identified by an asterisk in the inboard and outboard isolation barrier columns of Table 3.6.3-1, Part A, as discussed in Application for Amendment of Facility Operating License dated December 18, 1985.

TABLE 3.6.3-1

| LIME | | PAR | TA - PRIMARY CON | TAINMENT ISOLATION | VALVES | | | • |
|-----------------|-----------------------|---|---------------------------------|--|--|--|---------------|-----------|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. (SEC)(26) | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID |
| L L | 003B | CONTAINMENT INSTRUMENT GAS SUPPLY - HEADER 'B' | 59-1005B (CK) | HV59-129B | NA 7 | C,H,S | | 59 |
| | 003D-2 | CONTAINMENT INSTRUMENT GAS SUPPLY TO ADS VALVES E & K | 59 - 1112*(CK) | HV59-151B* | NA 45 | М | | 56 |
| | 007A(B,C,D) | MAIN STEAM LINE | HV41-1F022A | | 5* | C,D,E,F,P,Q | 6 | 41 |
| | | 'A'(B,C,D) | (B,C,D) | HV41-1F028A | 5* | C,D,E,F,P,Q | 6 | |
| 3/4 | | | | (B,C,D) HV40-1F001B | 45 | EA | 6 | |
| 6-19 | | | | (F,K,P) (XV40-101B (F,K,P) SEE PART B, THIS TABLE) | NA | | 6,1 | |
| | 008 | MAIN STEAM LINE DRAIN | HV41-1F016 | HV41-1F019 | 30 30 | C,D,E,F,P,Q C,D,E,F,P,Q | 4 | 41 |
| AMENDMENT NO. 2 | 009A | FEEDWATER | 41-1F010A(CK) | HV41-1F074A(CK) 41-1036A(CK) HV41-130B HV41-133A HV41-109A HV41-1F032A(CK) HV55-1F105 HV44-1F039(CK) (X-9B) 41-1016(X-9B, | NA 45 45 NA | · . | 32 7 31 | 41 |
| | | | | X-44) | | | ~- | |

| - | | ······ | <u>TABLE 3.6.3</u> | -1 (Continued) | | | | |
|------------|-----------------------|--------------------------------|---------------------------------|---|--|--|-------|----------------|
| LIMERICK | | Ē | PART A - PRIMARY CONT | AINMENT ISOLATIO | N VALVES | | | |
| ICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. (SEC)(26) | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID |
| 1 | 009B | FEEDWATER | 41-1F010B(CK) | HV41-1F074B(CK) 41-1036B(CK) HV41-130A HV41-133B HV41-109B HV41-1F032B(CK) | NA NA 45 45 NA NA | | 32 | 41 (|
| ٤u | · · | | | HV49-1F013 HV49-1F039(CK) (X-9A) 41-1016(X-9A, | 23 NA NA | LFCC | 31 | |
| 3/4 6 | | | | X-44) | | | | |
| 6-20 | 010 | RCIC STEAM SUPPLY | HV49~1F007 | HV49-1F008 HV49-1F076 | 7.2* 7.2* 45 | K, KA K, KA K, KA | 5 | 49 |
| | 011 | HPCI STEAM SUPPLY | HV55-1F002 | HV55-1F003 HV55-1F100 | 12* 12* 45 | L, LA L, LA L, LA | 5 | 55 (|
| Amendmen t | 012 | RHR SHUTDOWN COOLING SUPPLY | HV51-1F009 PSV51-155 | HV51-1F008 | 100 NA 100 | A,V A,V | 9,22 | 51 |
| | 013A(B) | RHR SHUTDOWN COOLING | HV51-1F050A*(B*) | | NA | A,V | 9,22 | 51 |
| No. 2 | | RETURN | (CK) HV51-151A*(B*) | HV51-1F015A(B) | 20 45 | A,V A,V | | - I |
| | 014 | RWCU - SUCTION | HV44-1F001* | HV44-1F004* | 10* 10* | B,J,Y B,J,Y | | 44 |

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PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIM | | <u>P/</u> | ART A - PRIMARY CON | TAINMENT ISOLATI | ON VALVES | | | . • | |
|-----------------|-----------------------|-------------------------------------|---------------------------------|----------------------------------|---|--|----------------|------|---|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. <u>(SEC)(26)</u> | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&11 | D |
| H | 016A | CORE SPRAY INJECTION | HV52-1F006A(CK) HV52-1F039A | HV52-1F005 | NA 7 18 | | 9,22 9,22 | 52 | |
| | 016B | CORE SPRAY INJECTION | HV52-1F006B(CK) HV52-1F039B | HV52-108(CK) | NA 7 NA | | 9,22 9,22 | 5 | |
| 3/ | 017 | RPV HEAD SPRAY | HV51-1F022 PSV51-122 | HV51-1F023 | 60 NA 135 | A,V A,V | 4,9,22 9,22 | 51 | |
| 3/4 6-21 | 021 | SERVICE AIR TO DRYWELL | 15-1140 | 15-1139 | NA NA | | | 15 | |
| • | 022 | DRYWELL PRESSURE INSTRUMENTATION | | HV42-147C | 45 | | 10 | 42 | |
| | 023 | RECW SUPPLY TO RECIRC PUMPS | HV13-106* | | 40 | | 11,28, 29 | 13 | I |
| | | RECIRC FUMFS | | HV13-108* | 30 | | 11,28 29 | C | ł |
| Ą | | | | HV13-109* | NÄ | | 11,13 | Υ. | I |
| Amendment | 024 | RECW RETURN FROM RECIRC PUMPS | HV13-107* | | 40 | | 11,28, 29 | 13 | ł |
| nent | | | | HV13-111* | 30 | | 11,28, 29 | | I |
| No. | | | | HV13-110* | NA | · · | 11,13 | | i |

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| LIME | | PA | <u>RT A - PRIMARY CONT</u> | AINMENT ISOLAT | ION VALVES | | | |
|-----------------|-----------------------|--|--|--|---|--|---|----------------|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. <u>(SEC)(26)</u> | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID |
| IT 1 | 025 | DRYWELL PURGE SUPPLY | HV57-121(X-201A) HV57-123 HV57-163 | HV57-109 (X-201A) HV57-131 (X-201A) HV57-135 | 5** 5** 9 6** 5** | B,H,S,U,W B,H,S,U,W B,H,R,S B,H,S,U,W B,H,S,U,W B,H,S,U,W | 3,11,14,2 3,11,14,2 3,11,14 11,25 11,25 11,25 | |
| 3/4 6-22 | 026 | DRYWELL PURGE EXHAUST | HV57-114 HV57-111 HV57-161 SV57-139 | HV57-115 HV57-117 SV57-145 | 5** 15** 9 5 6** 5** 5 | B,H,S,U,W B,H,S,U B,H,R,S B,H,S,U,W B,H,S,U B,H,R,S | 3,11,14,5 5,11,25 3,11,14 10 11,25 11,25 11 | 25 57 |
| | 027A | CONTAINMENT INSTRUMENT GAS SUPPLY TO ADS VALVES H,M,&S | 59-1128(CK) | HV59-151A | NA 45 | м | | 59 (|
| | 028A-1 | RECIRC LOOP SAMPLE | HV43-1F019 | HV43-1F020 | 10 10 | B,D B,D | | 43 |
| | 028A-2 | DRYWELL H2/02 SAMPLE | SV57-132 | SV57-142 | 5 5 | B,H,R,S B,H,R,S | 11 11 | 57 |
| | 028A-3 | DRYWELL H2/02 SAMPLE | SV57-134 | SV57-144 | 5 5 | B,H,R,S B,H,R,S | 11 11 | 57 |

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PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIME | PART A - PRIMARY CONTAINMENT ISOLATION VALVES | | | | | | | | |
|-----------------|---|--|----------------------------------|--|--|--|----------------------|------|--|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. (SEC)(26) | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID | |
| | 028B | DRYWELL H2/02 SAMPLE | SV57-133 | SV57-143 SV57-195 | 5 5 5 | B,H,R,S B,H,R,S B,H,R,S | 11 11 11 | 57 | |
| | 030B-1 | DRYWELL PRESSURE INSTRUMENTATION | | HV42-147A | 45 | • | 10 | 4 | |
| | 035A | TIP PURGE | 59-1056(CK) | | NA | | | 59 | |
| | | | (DOUBLE "O" RING) | HV59-131 | 7 | B,H,S | 16 | | |
| 3/4 | 035C-G | TIP DRIVES | XV59-141A-E (DOUBLE "O" RING) | | NA | B,H | 11,16,21 | 59 | |
| 6-23 | | | (DOORLE "O" KING) | XV59-140A-E | NA | | 11,16 | | |
| | 037A-D | CRD INSERT LINES | BALL CHECK | НСИ | NA NA | | 12 12 | 47 | |
| | 038A-D | CRD WITHDRAW LINES SDV VENTS & DRAINS | | HCU XV47-1F010 | NA 25 | | 12 30 | 47 | |
| | | SUV VENTS & DRAINS | | XV47-1F180 XV47-1F011 XV47-1F181 | 20 30 25 30 | | 30 30 30 30 | Ç | |
| • • • • | 039A(B) | DRYWELL SPRAY | HV51-1F021A(B) | HV51-1F016A(B) | 160 160 | | 4,11 11 | 51 | |
| | 040E | DRYWELL PRESSURE INSTRUMENTATION | | HV42-147D | 45 | | 10 | 42 | |
| | 040F-2 | CONTAINMENT INSTRUMENT GAS -SUCTION | HV59-101 | HV59-102 | 45 7 | C,H,S C,H,S | 5 | 59 | |

PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIM | | PA | RT A - PRIMARY CONT | AINMENT ISOLATI | ON VALVES | | | i |
|-----------------|-------------|---|---------------------------------|----------------------------------|---|--|--------------------|----------|
| LIMERICK - UNIT | NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. <u>(SEC)(26)</u> | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID |
| 17 1 | 040G-1 | ILRT DATA ACQUISITION | 60-1057 | 60-1058 | NA NA | | 5,11 11 | 60 |
| | 040G-2 | ILRT DATA ACQUISITION | 60-1071 | 60-1070 | NA NA | | 5,11 11 | 6 |
| | 040H-1 | CONTAINMENT INSTRUMENT GAS SUPPLY - HEADER 'A' | 59-1005A(CK) | HV59-129A | NA 7 | C,H,S | | 59 |
| ω | 042 | STANDBY LIQUID CONTROL | 48-1F007(CK) (X-116) | HV48-1F006A | NA 60 | | 29 | 48 |
| 3/4 6-24 | 043B | MAIN STEAM SAMPLE | HV41-1F084 | HV41-1F085 | 10 10 | B,D B,D | | 41 |
| 4 | 044 | RWCU ALTERNATE RETURN | 41-1017 | 41-1016(X-9A, X-9B) | NA NA | | 5,31 | 41 |
| | | | <i>v.</i> . | PSV41-112 | NA | | | - |
| An | 045A(B,C,D) | LPCI INJECTION 'A'(B,C,D) | HV51-1F041A*(B,C* D*)(CK) | 3 | | NA | | \$,_2 51 |
| ŋend | | | HV51-142A*(B,C*, D*) | | 7 | | 9,22 | |
| Amendment 1 | | | 0) | HV51-1F017A* (B,C*,D*) | 38 | | | |
| No. 2 | 050A-1 | DRYWELL PRESSURE INSTRUMENTATION | | HV42-147B | 45 | | 10 | 42 |
| | | | | · . · . | | | | |
| | 053 | DRYWELL CHILLED WATER SUPPLY - LOOP 'A' | HV87-128* | HV87-120A* | 60 60 | C,H | 11 11,28, 29 | 87 |
| | | | | HV87-125A* | 60 | | 11,28,29 | 9 |

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PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIM | PART A - PRIMARY CONTAINMENT ISOLATION VALVES | | | | | | | | |
|-----------------|---|--|---------------------------------|--|---|--|----------------------------|-----------|---|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. <u>(SEC)(26)</u> | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID | |
| LL 1 | 054 | DRYWELL CHILLED WATER RETURN - LOOP 'A' | HV87-129* | HV87-121A* | 60 60 | C,H | 11 11,28, | 87 | |
| | | | | HV87-124A* | 60 | | 29 11,28, 29 | C. | |
| | 055 | DRYWELL CHILLED WATER SUPPLY - LOOP 'B' | HV87-122* | HV87-120B* | 60 60 | C,H | 11 11,28, | 87 | |
| | | | | HV87-125B* | 60 | | 29 11,28,29 | | ł |
| 3/4 6-25 | 056 | DRYWELL CHILLED WATER RETURN - LOOP 'B' | HV87-123* | HV87-121B* HV87-124B* | 60 60 60 | C,H | 11 11,28,29 11,28,29 | | |
| 0, | 061-1 | RECIRC PUMP 'A' SEAL PURGE | 43-1004A(CK) | (XV43-103A - SEE PART B, THIS TABLE) | NA NA | | 15 1 | 43 | |
| Amendment | 061-2 | RECIRC PUMP 'B' SEAL PURGE | 43-1004B*(CK) | (XV43-103B - SEE PART B, THIS TABLE) | NA NA | | 15 1 | 43 | 1 |
| ent No. | 062 | DRYWELL H2/02 SAMPLE RETURN, N2 MAKE-UP | SV57-150(X-220A) | SV57-159 | 5 5 | B,H,R,S B,H,R,S | 11 11 | 57 | |
| ∾ | | | | (X-220A) HV57-116 | 30** | B,H,R,S | 11 | | |
| | | | | (X-220A) SV57-190 (X-220A) | 5 | B,H,R,S | 11 | | |

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| LIME | | · · · · · · | PART A - PRIMARY CON | TAINMENT ISOLATIO | N VALVES | | | |
|-----------------|-------------|--|--|--|--|--|---|----|
| LIMERICK - UNIT | NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. (SEC)(26) | ISOL. SIGNAL(S), IF APP. (20) | NOTES P&II |). |
| ц Ц | | | | SV57-191 (X-220A) | 5 | B,H,R,S | 11 | |
| | 116 | STANDBY LIQUID CONTROL | 48-1F007(CK) (X-42) | HV48-1F006B | NA 60 | | 29 | 3 |
| | 1178-1 | DRYWELL RADIATION MONITORING SUPPLY | SV26-190A | SV26-190B | 5 5 | B,H,R,S B,H,R,S | 11 26 11 | ; |
| 3/4 | 1178-2 | DRYWELL RADIATION MONITORING RETURN | SV26-190C | SV26-190D | 5 5 | B,H,R,S B,H,R,S | 11 26 11 | ; |
| 4 6+26 | 201A | SUPPRESSION POOL PURGE SUPPLY | HV57-124 HV57-131(X-25) HV57-164 | HV57-109(X-25) HV57-147 HV57-121(X-25) | 5** 5** 9 6** 6** 5** | B,H,S,U,W B,H,S,U,W B,H,R,S B,H,S,U,W B,H,S,U,W B,H,S,U,W | 3,11,14,25 57 3,11,14,25 3,11,14 11,25 11,25 11,25 | , |
| | 202 | SUPPRESSION POOL PURGE EXHAUST | HV57-104 HV57-105 HV57-162 | HV57-112 HV57-118 SV57-185 | 5** 15** 9 6** 5** | B,H,S,U,W B,H,S,U B,H,R,S B,H,S,U,W B,H,S,U B,H,R,S | 3,11,14,2(5,11,25 3,11,14 11,25 11,25 11 | 57 |
| | 203A(B,C,D) | RHR PUMP SUCTION | *: | HV51-1F004A(B, C,D) | 240 | | 4,22, 51 19,29 | |
| | | | | PSV51-1F030A(B, C.D) | NA | | 22 | |

C,D)

PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIME | | <u> </u> | ART A - PRIMARY CO | NTAINMENT ISOLATIO | N VALVES | | | | |
|-----------------|--------------|--|---------------------------------|----------------------------------|---|--|---------|------------|---|
| LIMERICK - UNIT | NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. <u>(SEC)(26)</u> | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID | |
| - T - T | 20// 8 / 0 1 | RHR PUMP TEST LINE AND CONTAINMENT COOLING | | HV51-125A(B) | 180 | | 4,22,29 | 51 | |
| | 205A(B) | SUPPRESSION POOL SPRAY | | HV51-1F027A*(B) | 45 | C,G | 11 | 51 | 1 |
| • | 206A(B,C,D) | CS PUMP SUCTION | | HV52-1F001A (B,C,D) | 160 | | 4,22,29 | 52 | |
| • | 207A(B) | CS PUMP TEST AND FLUSH | | HV52-1F015A(B) | 23 | C,G | 5,22 | 52 | |
| 3/4 | 208B | CS PUMP MINIMUM RECIRC | | HV52-1F031B | 45 | LFCH | 5,22,29 | 52 | |
| 4 5 | | HPCI PUMP SUCTION | • • • • | HV55-1F042 | 160 | L,LA | 4,22 | 55 | |
| 27 | 210 | HPCI TURBINE EXHAUST | | HV55-1F072 | 120 | | 4,22,29 | 55 | |
| | 212 | HPCI PUMP TEST AND FLUSH | | HV55-1F071 | 40 | B,H | 4,22 | 55 | |
| · · · . | 214 | RCIC PUMP SUCTION | | HV49-1F031 | 60 | | 4,22,29 | 49 | |
| | 215 | RCIC TURBINE EXHAUST | | HV49-1F060 | 80 | | 4,22,29 | 4 <u>0</u> | |
| 1 23 | 216 | RCIC MINIMUM FLOW | | HV49-1F019 | 8 | LFRC | 5,22 | 49 | |

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PART A - PRIMARY CONTAINMENT ISOLATION VALVES

| LIME | | <u>PA</u> | RT A - PRIMARY CON | TAINMENT ISOLATIC | ON VALVES | · | | |
|-----------------|-----------------------|--|---------------------------------|--|--|---|----------------------------|------|
| LIMERICK - UNIT | PENETRATION NUMBER | FUNCTION | INBOARD ISOLATION BARRIER | OUTBOARD ISOLATION BARRIER | MAX.ISOL. TIME.IF APP. (SEC)(26) | ISOL. SIGNAL(S), IF APP. (20) | NOTES | P&ID |
| T 1 | 217 | RCIC VACUUM PUMP DISCH | HV49-1F002 | 49-1F028(CK) | 60 NA | | 5,29 | 49 |
| | 218 | INSTRUMENT GAS TO VACUUM RELIEF VALVES | 59-1001(CK) | HV59-135 | NA 7 | С,Н,S | | 5. |
| | 219A | INSTRUMENTATION - SUPPRESSION POOL LEVEL | | HV55-121 | 45 | | 10 | 55 |
| 3/4 6-28 | | INSTRUMENTATION - SUPPRESSION POOL LEVEL | | HV55-120 | 45 | | 10 | 55 |
| 28 | 220A | H2/02 SAMPLE RETURN | SV57-191(X-62) | SV57-190(X-62) HV57-116(X-62) SV57-150(X-62) SV57-159(X-62) | 5 5 30** 5 5 | B,H,R,S B,H,R,S B,H,R,S B,H,R,S B,H,R,S | 11 11 11 11 11 | 57 |
| | 220B | INSTRUMENTATION - SUPPRESSION POOL PRESSURE SUPPRESSION POOL LEVEL | | SV57-101 | 5 | | 10 | 57 |
| | 221A | WETWELL H2/02 SAMPLE | SV57-181 | SV57-141 SV57-184 | 5 5 5 | B,H,R,S B,H,R,S B,H,R,S | 11 11 11 | 57 |
| | 2218 | WETWELL H2/02 SAMPLE | SV57-183 | SV57-186 | 5 5 | B,H,R,S B,H,R,S | 11 11 | 57 |

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORT AMENDMENT NO. 2 TO FACILITY OPERATING LICENSE NO. NPF-39

PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION, UNIT NO. 1

DOCKET NO. 50-352

1.0 Introduction

ANCLEAR REGUL

By letter dated December 18, 1985, the Philadelphia Electric Company (the licensee) requested a one-time-only approval to temporarily extend certain surveillance requirements in the Technical Specifications, which must be performed nominally every 18 or 24 months and which can only be done when the plant is shutdown. The change would extend the 18 or 24 month surveillance intervals for leakage testing of selected containment isolation valves by up to 12 weeks beyond the time allowed by the Technical Specifications. This would permit the licensee to delay performing this testing until a maintenance and surveillance outage which will begin on or before May 26, 1986.

By letters dated January 29, February 5, February 25, and March 3, 1986 the licensee provided additional information in support of the proposed changes. Technical Specification (TS) 4.6.1.2.d requires that Type C tests shall be conducted at intervals no greater than 24 months except for tests involving valves in hydrostatically tested lines. The 24 month interval for this Type C testing is consistent with the requirements of 10 CFR Part 50, Appendix J, paragraph III.D.3 which specifies that Type C tests shall be performed at intervals no greater than 2 years. The licensee's letter of December 18, 1985 requested an extension of the 24 month TS testing requirement by a maximum of 12 weeks for a group of 27 isolation valves. In addition, in the December 18, 1985 letter the licensee requested a one-time exemption from the Appendix J 24 month testing requirements for these 27 valves. The related exemption is the subject of a separate Safety Evaluation dated March 3, 1986.

Technical Specification 4.6.1.2.g requires that local leak rate tests on containment isolation valves in hydrostatically tested lines shall be leak tested at least once per 18 months. The licensee's letter of December 18, 1985 requested an extension of this 18 month TS testing requirement by a maximum of 12 weeks for a group of 10 isolation valves.

2.0 Evaluation

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Since the Limerick Unit 1 plant has been through an extended startup program schedule, which included relatively little startup testing program activity from about April to early August 1985, the scheduled surveillance tests fall in a period of what would otherwise be a continuation of first fuel cycle power operations. Since the plant must be shutdown for about two weeks to perform these tests and since the licensee plans to shut the plant down on or before May 26, 1986 to perform other surveillance tests and maintenance activities the licensee proposes to extend the surveillance interval for these isolation valves to allow those tests to also be performed during the outage to begin on or before May 26, 1986.

The 18 and 24 month surveillance intervals were selected to provide flexibility in scheduling these tests for execution during refueling outages. Technical Specification 4.0.2 does allow the 18 month TS interval between surveillance testing to be extended by 25 percent in order to provide flexibility in operations scheduling. The end of the most limiting surveillance interval, considering the 24 month limit and the 18 month limit extended by the allowable 25 percent, is March 3, 1986.

The requirements of the TS for testing nominally every 18 or 24 months for which extensions are proposed and the reason these tests can only be performed while the reactor is shutdown are as follows.

General Design Criterion 56, Primary Containment Isolation, requires that lines to be isolated be provided with an isolation valve inside containment and an isolation valve outside containment. The design of the isolation valves and their associated piping and test connections requires personnel access to the primary containment to isolate the valve inside the containment from the balance of its associated system and to implement the test procedure. Entry into containment during power operations would expose personnel to the hazards of high air temperature (about 120°F), radiation exposure that is high with respect to as-low-as-reasonably-achievable (ALARA) standards (about 10 R/hour in representative areas) and the nitrogen environment of the inerted containment atmosphere for which self contained breathing apparatus (SCUBA) would be required. The licensee has stated orally that they consider the hazard of the inerted containment atmosphere to be too great to permit personnel access for routine plant operational tasks. The licensee has also stated that further factors which preclude testing these valves at power include the need to depressurize the reactor, drain the reactor enclosure chilled water (RECW) system, drain the drywell chilled water (DCW) system, drain the emergency service water (ESW) loop, remove the reactor recirculation pumps from service or a combination of the above. The staff concludes that the licensee has shown that it is not practical or feasible to test these valves at power and that the plant would be required to shutdown for about two weeks to cooldown, depressurize and conduct the tests beginning on March 3, 1986 unless the requested extension in surveillance test periods is granted.

The licensee has stated that the types of valves subject to this surveillance schedule extension request have traditionally good maintenance histories and do not include those valves known to be maintenance intensive in boiling water reactors such as the main steam isolation valves or the feedwater check valves. The licensee also points out that these valves are used in applications where they are either normally open or normally closed and are not used in a modulating mode to control flow rates. The licensee further states that such valves when used in non-modulating applications tend not to have problems meeting leakage criteria. In this regard, the licensee has also considered the leak rate information reported in Licensee Event Report (LER) No. 352/85-102. This LER deals with a valve that is not within the scope of the Limerick surveillance schedule extension request. The licensee has reached a determination, with which the staff concurrs, that the LER 85-102 event was an isolated event and as such has no significant effect upon the conclusions and basis for the request for extension. In support of the position that these valves are reliable in meeting leakage criteria the licensee has interrogated the Nuclear Plant Reliability Data System (NPRDS) for similar types of valves and has reviewed these specific valves' previous leakrate test histories.

The NPRDS query serves as a useful qualitative estimation of these valves' reliability since the reporting of data to the system is on a voluntary basis and therefore there is no representation that the data from the system represents all of the valves in the industry of that specific valve type. Nevertheless, the data as presented in the licensee's letter dated January 29, 1986, is useful in considering whether these valve types are generally reliable in meeting their leakage criteria. The licensee notes that the valves in the NPRDS data base have been in service for significant periods whereas the Limerick valves will have experienced only a part of the first fuel cycle's operating time by the date of the next planned surveillance test. The NPRDS data does not suggest that these valves, either individually or collectively, should be expected to experience undue difficulties in meeting the leakage criteria.

The licensee states that testing has been performed on those valves that can be tested at power such that only 37 valves out of a total of 245 valves in Part A of TS Table 3.6.3-1 require the one-time extension of the surveillance interval. This is reflected in the following specific system discussions wherein, as applicable, it is noted that the extension request does not apply to all of the valves in a given system since the other valves have been tested on a more recent schedule which does not require their retest until after May 26, 1986.

Technical Specification 4.6.1.2.d-Twenty-Four Month Tests

There are 27 valves subject to this specification for which the licensee has requested one time extension of no more than 12 weeks in the surveillance test schedule. These valves are as listed below.

| System | Valve Number | Size/Type |
|---|--|----------------------------------|
| <pre>° LPCI injection loops A,C,D</pre> | HV-51-1F017A,C,D | 12" gate |
| ° Suppression Pool Spray | HV-51-1F027A | 6" globe |
| Reactor enclosure cooling water supply line return line | | 3" and 4" gate 3" and 4" gate |
| <pre>° Drywell Chilled Water, Loops A and B - Supply lines</pre> | HV-87-120A, 125A, 128 and 120B, 125B, 122 | 8" gate |
| - Return lines | HV-87-121A, 124A, 129 and 121B, 124B, 123 | 8" gate |
| ^o Reactor Water Cleanup supply line | HV-44-1F001, 1F004 | 6" globe |

Technical Specification 4.6.1.2.d-Twenty-Four Month Tests (cont'd.)

| System | Valve Number | Size/Type |
|--|-----------------------|----------------------|
| ^o Recirculation Pump B seal purge | 43-1004B | 1" check |
| ° Instrument Gas Supply to ADs valves E and K | HV-59-151B 59-1112 | 1" globe 1" check |

The licensee's letter of January 29, 1986 also provides information on the previous leakage testing for the specific valves which are subject to this amendment request. As indicated in the licensee's letters the total leakage measured as a result of the previous tests on all applicable Type C valve tests is about 22,000. standard cubic centimeters per minute (SCCM) which is about 23% of the total allowed by the Technical Specifications. Of this 22,000. SCCM only about 3800. SCCM (or 4% of the TS limit) was contributed by the 27 valves subject to the amendment application. Thus, it may be seen that leakage through these valves would have to increase many times before they contributed a large portion of either (1) the total measured leakage from all such valves or (2) the TS limit value. Some discussion of the individual valves is provided below.

LPCI Injection

Valves HV51-1F017A, C and D require an extension of less than 10 weeks in a 24 month surveillance interval. The comparable valve in the B loop was tested on a schedule which does not require its retest until after May 26, 1986. The leakage from these three valves during the previous tests totaled 1210 SCCM or 1% of the TS limit valve. The line in which these valves are located is provided with instrumentation which will detect and annunciate excessive leakage past the valves.

Suppression Pool Spray

Valve HV-51-1F027A requires an extension of about 8 weeks in a 24 month surveillance interval. The comparable valve in the B loop of suppression pool spray was tested on a schedule which does not require its retest until after May 26, 1986. The leakage from this valve during the previous test was 2.25 SCCM or 0.002% of the TS limit valve.

Reactor Enclosure Cooling Water (RECW)

Valves HV-13-106, 108, 109 in the RECW supply line and HV-13-107, 110, 111 in the RECW return line require an extension of 12 weeks in a 24 month surveillance interval. The leakage from these valves during the previous tests was 145 SCCM or 0.15% of the TS limit for the supply valves and 9 SCCM or 0.01% of the TS limit for the return valves.

Drywell Chilled Water

The valves in loops A and B of the drywell chilled water system, each loop having 3 involved valves in the supply line and 3 involved valves in the return line, require an extension of up to 12 weeks in a 24 month surveillance interval. The leakage from these valves during the initial tests was 203 SCCM for loop A supply valves, 653 SCCM for loop A return valves, 668 SCCM for loop B supply valves and 338 SCCM for loop B return valves for a total of 1862 SCCM or 2% of the TS limit.

Reactor Water Cleanup

Valves HV-44-1F001, 1F004 in the RWCU supply line require an extension of less than 10 weeks in a 24 month surveillance interval. The leakage from these valves from previous tests was 510 SCCM or 0.5% of the TS limit value.

Recirculation Pump B Seal Purge

Valve 43-1004B in the reactor recirculation pump seal purge line requires an extension of 3 weeks in a 24 month surveillance interval. The comparable valve in the A loop line was tested on a schedule which does not require its retest until after May 26, 1986. The leakage from this valve from previous tests was 76 SCCM or 0.1% of the TS limit value.

Instrument Gas Supply to ADS Valves

Valves HV-59-151B and 59-1112 in the instrument gas supply to automatic depressurization system (ADS) valves E and K require an extension of less than 2 weeks in a 24 month surveillance interval. Comparable valves in the gas supply line for ADS valves H, M and S and other instrument gas supply and return lines were tested on a schedule which does not require retest until after May 26, 1986. The leakage from these valves during the previous tests was 9 SCCM or 0.01% of the TS limit value.

Summary for 24 Month Surveillance Interval Valves

In assessing whether an extension of 12 weeks in a 24 month surveillance interval would be appropriate for these valves the staff has considered the previous leak rate test results for these valves, their propensity for requiring extensive maintenance to maintain their leak tight integrity and the consequences of any additional degradation during the requested extension. Based on its review the staff finds that:

(1) The previously measured Type C test leakage through these values (3800 SCCM) constituted but 17% of the total measured Type C leakage. There is considerable margin between these values and the limit established by Appendix J and the technical specification of 0.6 L (94, 964 SCCM) for the Type B and C tests. These values were not found to contribute either individually or collectively a disproportionate percentage of the total measured leakage or of the technical specification limit values.

- (2) To date these valves have not required maintenance, repairs or adjustments which would require reperformance of their Type C test. The licensee's review of similar valves via NPRDS provides a qualitative assessment that supports the licensee's findings that these valves typically have good maintenance histories, do not require intensive maintenance to ensure their leak tight integrity and thus are unlikely to degrade significantly in the period of the extension.
- (3) There is ample margin between the leakage previously measured during the Type C isolation valve tests, including the previous tests of the 27 valves subject to this amendment request, and the limiting leakage values in the technical specifications and in Appendix J to accommodate any degradation likely to be experienced by these 27 valves during the extension period. Therefore the consequences of leakage past these isolation valves is bounded by safety analyses previously performed which were based on the limiting leakage values in the technical specifications and in Appendix J.

The licensee has determined that the proposed changes will have little or no effect on containment integrity and that the proposed amendment will not alter any of the accident analyses. The staff has reviewed these determinations and the associated changes and concludes that, on the bases discussed above, they are acceptable.

Technical Specification 4.6.1.2.g - Eighteen Month Tests

There are 10 valves subject to this specification for which the licensee has requested a one time extension of no more than 10 weeks in the surveillance test schedule. Considering the 25% extension in the nominal 18 month period also provided for in the Technical Specifications these tests would be extended from about 22.5 months to 25 months. These valves are as listed below:

| Shutdown Cooling | HV-51-1F050A, B | 12" Check |
|--|--|-------------------------|
| Return Loop A and B lines | HV-51-151A, B | 1.5" Globe |
| ° Low Pressure Coolant Injection Loop A, C and D lines | HV-51-1F041A, C, D HV-51-142A, C, D | 12" Check 1.5" Globe |

Shutdown Cooling Return

The extension request for the isolation valves in the shutdown cooling return lines apply only to the inboard valves since the outboard (outside containment) isolation valves were tested on a schedule which does not require their retest until after May 26, 1986. These lines are equipped with instrumentation which will annunciate leakage past the isolation valves to the operator. The leakage through these valves during the initial leak tests was 0.1 gallons per minute (gpm) for the loop A valves and no measured leakage for the loop B valves, well below the limit of 1.0gpm imposed by the Technical Specifications.

Low Pressure Coolant Injection

The extension request for these isolation valves in the low pressure coolant injection lines applies to the A, C and D loop valves since the B loop valves were tested on a schedule which does not require their retest until after May 26, 1986. These lines are equipped with instrumentation which will annunciate leakage past the isolation valves to the operator. The leakage through these valves during the initial leak tests was 0.2 gpm for the A loop, 0.002 gpm for the C loop, and 0.09 gpm for the D loop, all of which are well below the limit of 1.0gpm imposed by the Technical Specifications.

Summary for Eighteen Month Surveillance Interval Valves

In assessing whether an extension of 10 weeks in the 18 month surveillance interval, as extended by 25%, would be appropriate for these valves the staff has considered the previous leak rate test results for these valves, their propensity for requiring extensive maintenance to maintain their leak tight integrity and the consequences of any additional degradation during the requested extension. Based on its review the staff finds that:

- (1) The previously measured leakage for these valves (0.1 gallons per minute (gpm) maximum for any 1 valve) is well below the technical specification limit of 1 gpm for any 1 valve. Thus, ample margin exists between the previously measured leakage and the TS limiting value to accommodate any degradation likely to be experienced during the extension period.
- (2 The lines in which these valves are located are provided with instrumentation which will detect and annunciate excessive leakage past these valves.
- (3) The lines in which these valves are located are connected to closed systems outside of containment. Leakage out of those systems would be into the reactor enclosure thus facilitating collection and treatment.
- (4) The licensee's review of NPRDS data for similar valves provides a qualitative assessment that supports the licensee's findings that leakge rate test experience with these valves has been excellent.

The licensee has determined that these changes have little safety significance and that the proposed amendment will not alter any of the accident analyses. The staff has reviewed these determinations and the associated changes and concludes, on the bases stated above, that they are acceptable.

3.0 Environmental Consideration

This amendment changes some surveillance requirements on a one-time-only basis. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding within the time provided by the Federal Register notice of consideration of the licensee's amendment request. Thus, there is no need to make a final determination regarding no significant hazards consideration. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement nor environmental assessment need be prepared in connection with the issuance of this amendment. However a related exemption from Appendix J to 10 CFR Part 50 is being processed relative to this action and a Notice of Environmental Assessment and Finding of No Significant Impact has been processed relative to the Exemption. This Notice of Environmental Assessment and Finding of No Significant Impact was published in the Federal Register on March 3, 1986 (51 FR 7344).

4.0 Conclusion

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributors: R. E. Martin, S. Kucharski, J. S. Guo, J. Kudrick

Dated: MAR 03 1986

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