



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-295

ZION NUCLEAR POWER STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 175  
License No. DPR-39

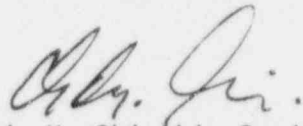
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Commonwealth Edison Company (the licensee) dated August 29, 1996, as supplemented on September 20, 1996, and October 4, 1996, complies with the standards and requirements of the Atomic Energy 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 Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-39 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 175, 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 the date of its issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Clyde Y. Shiraki, Senior Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 12, 1996



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

COMMONWEALTH EDISON COMPANY

DOCKET NO. 50-304

ZION NUCLEAR POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 162  
License No. DPR-48

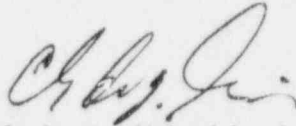
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Commonwealth Edison Company (the licensee) dated August 29, 1996, as supplemented on September 20, 1996, and October 4, 1996, complies with the standards and requirements of the Atomic Energy 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 Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-48 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 162, 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 the date of its issuance and shall be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Clyde Y. Shiraki, Senior Project Manager  
Project Directorate III-2  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: November 12, 1996

ATTACHMENT TO LICENSE AMENDMENT NOS. 175 AND 162

FACILITY OPERATING LICENSE NOS. DPR-39 AND DPR-48

DOCKET NOS. 50-295 AND 50-304

Revise the Appendix A Technical Specifications by removing the pages identified below and inserting the attached pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

Remove Pages

212  
213  
214  
214a  
214b  
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Insert Pages

212  
213  
214  
214a  
214b  
326a

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p data-bbox="151 224 942 256">3.10 <u>CONTAINMENT STRUCTURAL INTEGRITY (per unit)</u></p> <p data-bbox="151 289 306 321"><u>OBJECTIVE:</u></p> <p data-bbox="306 354 1044 418">To insure that the containment structure meets its design requirements throughout plant life.</p> <p data-bbox="151 451 370 483"><u>SPECIFICATION:</u></p> <ol style="list-style-type: none"> <li data-bbox="306 516 895 548">1. Containment Leakage Rate Testing               <ol style="list-style-type: none"> <li data-bbox="378 548 974 613">A. Containment Leakage Rate shall be limited to:                   <ol style="list-style-type: none"> <li data-bbox="455 646 1044 776">1. An overall integrated leakage rate less than or equal to that specified by the Containment Leakage Rate Testing Program.</li> <li data-bbox="455 808 1044 1036">2. A combined leakage rate less than or equal to that specified by the Containment Leakage Rate Testing Program, for all penetrations and valves subject to Type B and C tests, when pressurized to <math>P_a</math>.</li> </ol> </li> </ol> </li> </ol> <p data-bbox="151 1060 746 1092"><u>APPLICABILITY:</u> Modes 1, 2, 3, 4 and 7</p>	<p data-bbox="1166 224 1953 256">4.10 <u>CONTAINMENT STRUCTURAL INTEGRITY (per unit)</u></p> <p data-bbox="1166 289 1321 321"><u>OBJECTIVE:</u></p> <p data-bbox="1261 354 2017 418">To establish the testing requirements to assure containment structural integrity.</p> <ol style="list-style-type: none"> <li data-bbox="1261 451 1847 483">1. Containment Leakage Rate Testing               <ol style="list-style-type: none"> <li data-bbox="1334 516 1964 613">A. Surveillance and testing of the containment shall be performed as follows:                   <ol style="list-style-type: none"> <li data-bbox="1427 646 2049 776">1. The containment Type A leakage rate shall be determined in accordance with the Containment Leakage Rate Testing Program.</li> </ol> </li> </ol> </li> </ol>

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>3.10.1.A (Continued)</p> <p><u>ACTION:</u></p> <p>With either (a) the measured overall integrated containment leakage rate, or (b) the measured combined leakage rate for all penetrations and valves subject to Type B and C tests exceeding that specified by the Containment Leakage Rate Testing Program, restore the applicable leakage rate to less than or equal to that specified by the Containment Leakage Rate Testing Program prior to entering MODE 4.</p>	<p>4.10.1.A.2. Type B and C tests (except air lock tests) shall be performed in accordance with that specified by the Containment Leakage Rate Testing Program.</p> <p>3. Air locks shall be tested and demonstrated OPERABLE per Surveillance Requirement 4.10.2.</p> <p>4. Type A, B, and C leakage rate tests shall be considered to be satisfactory if the acceptance criteria delineated by the Containment Leakage Rate Testing Program are met.</p> <p>5. Leakage from containment isolation valves sealed by the Isolation Valve Seal Water system may be excluded from the combined Type B and C leakage rate.</p>

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
3.10.1.A (Continued)	<p data-bbox="1159 232 2032 329">4.10.1.A.6. The retest schedules for Type A, B, and C tests shall be in accordance with the Containment Leakage Rate Testing Program.</p> <p data-bbox="1315 362 2049 459">7. Inspection and reporting of tests shall be in accordance with the Containment Leakage Rate Testing Program.</p>

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>3.10.2. <u>Containment Air Locks</u></p> <p>A. Each containment air lock shall be OPERABLE with:</p> <ol style="list-style-type: none"> <li>1. Both doors closed except when the air lock is being used for normal entry and exit through the containment, then at least one air lock door shall be closed, and</li> <li>2. The air lock leakage rate shall be less than or equal to that specified by the Containment Leakage Rate Testing Program.</li> </ol> <p><u>APPLICABILITY:</u> Modes 1, 2, 3, 4 and 7</p> <p><u>ACTION:</u></p> <p>a.) With one containment air lock door inoperable:</p> <ol style="list-style-type: none"> <li>1. Maintain at least the OPERABLE air lock door closed and either restore the inoperable air lock door to OPERABLE status within 24 hours or lock the OPERABLE air lock door closed.</li> <li>2. Operation may continue until performance of the next required overall air lock leakage test provided that the OPERABLE air lock door is verified locked closed at least once per 31 days,</li> <li>3. Otherwise be in at least MODE 3 within the next 6 hours and MODE 5 within the following 30 hours.</li> </ol>	<p>4.10.2. <u>Containment Air Locks</u></p> <p>A. Each air lock shall be demonstrated OPERABLE:</p> <p>Verify that the overall air lock leakage rate, and the leakage rate for each door, are less than or equal to that specified by the Containment Leakage Rate Testing Program. Verifications shall be conducted at the frequency specified by the Containment Leakage Rate Testing Program.</p>

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>3.10.2 (Continued)</p> <p>4. The provisions of Technical Specification 3.0.4 are not applicable.</p> <p>b.) With the containment air lock inoperable, except as a result of an inoperable air lock door, maintain at least one air lock door closed; restore the inoperable air lock to OPERABLE status within 24 hours or be in at least MODE 3 within the next 6 hours and in MODE 5 within the following 30 hours.</p>	<p>At least once per 6 months by verifying that only one door in each air lock can be opened at a time.</p>

#### 6.10 Containment Leakage Rate Testing Program

1. A program shall be established to implement the leakage rate testing of the containment as required by 10 CFR 50.54(o) and 10 CFR Part 50, Appendix J, Option B, as modified by approved exemptions. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leakage Test Program" dated September 1995, with the following exception:

Section 10.2.1 of NEI 94-01, Revision 0, is not applicable to Unit 1 penetration P-16. This exception for penetration P-16 shall expire at the completion of Unit 1 outage Z1R15.

2. The peak calculated containment internal pressure for the design basis loss of coolant accident,  $P_a$ , is 46.79 psig. The containment design pressure is 47 psig.
3. The maximum allowable containment leakage rate,  $L_a$ , at  $P_a$ , shall be  $\leq 0.1\%$  of containment air weight per day.
4. Leakage rate acceptance criteria are:
  - a. Containment leakage rate acceptance criterion is  $\leq 1.0 L_a$ . During the first unit startup following testing in accordance with this program, the leakage rate acceptance criteria are  $< 0.60 L_a$  for the Type B and C tests and  $< 0.75 L_a$  for the Type A tests;
  - b. Air lock testing acceptance criteria are:
    - 1) Overall air lock leakage is  $\leq 0.6 L_a$  when combined with all Type B and C test results at a test pressure of  $\geq P_a$ .
    - 2) For each door, leakage rate is  $\leq 1.0$  SCFH when tested at  $\geq 2.5$  psig and  $< 10$  psig, or  $\leq 4.75$  SCFH when tested at  $\geq 10$  psig.
5. The provisions of Surveillance Requirement 4.0.2 do not apply to the test frequencies specified in the Containment Leakage Rate Testing Program.
6. The provisions of Surveillance Requirement 4.0.3 are applicable to the Containment Leakage Rate Testing Program.