ATTACHMENT B

ZION NUCLEAR GENERATING STATION

ANNOTATED AND CLEAN COPIES
OF THE CTS
FOR SUPPLEMENTAL PROPOSED CHANGES TO
APPENDIX A TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSES
DPR-39 AND DPR-48

SUPPLEMENT TO LICENSE AMENDMENT REQUEST 96-02

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
3.3.2.G. Low Temperature Overpressure Protection (Continued)	4.3.2.G. Low Temperature Overpressure Protection (Continued)
b. The Reactor Coolant System (RCS) pressure shall be less than 100 psig, and the pressurizer level less than 25%, or	4. Verifying each PORV's isolation valve is open at least once per shift when this method is being used for low temperature overpressure protection. 5. Testing pursuant to Specification 4.0.5. b. The RCS pressure shall be verified to be less than 100 psig, and pressurizer level shall be verified to be less than 25% at least once per shift, when this method is being used for low temperature overpressure protection.
c. The RCS is depressurized and one PORV and its isolation valve are open.	c. Verifying one PORV and its isolation valve are open at least once per shift, when this method is being used for low temperature overpressure protection.
2. A maximum of one* charging pump, ~~or safety injection pump,~~ aligned for injection into the RCS, and no accumulators, shall be OPERABLE. and no safety injection pumps	2. At least ~~four~~ two of the ~~five~~ three charging pumps ~~(charging pumps and safety injection pumps)~~, and all accumulators, shall be verified to be incapable of injecting into the RCS prior to entering a condition in which they are required to be inoperable, and at least once per shift thereafter while they are required to be inoperable. and all safety injection pumps,
* For short durations of time during pump switchover, two charging pumps may be OPERABLE for the purpose of maintaining seal injection flow to the reactor coolant pumps.	

LIMITING CONDITION FOR OPERATION

3.3.2.G Low Temperature Overpressure Protection (Continued)

3. When starting a reactor coolant pump, when no reactor coolant pumps are running, the temperature in the secondary side of the steam generator in the loop in which the reactor coolant pump is to be started shall be less than 50°F higher than the RCS temperature.

APPLICABILITY: Mode 4 when the temperature of any RCS cold leg is less than or equal to 250°F, MODE 5 and MODE 6 with the reactor vessel head on.

ACTION:

a. With one PORV inoperable in MODE 4, restore the inoperable PORV to OPERABLE status within 7 days, or within the next 24 hours either;

   1. Depressurize the RCS to less than 100 psig and lower pressurizer level to less than 25%, or

   2. Depressurize the RCS and open at least one PORV and its block valve.

b. With one PORV inoperable in MODES 5 or 6, restore the inoperable PORV to operable status within 24 hours, or within the next 24 hours either;

   1. Depressurize the RCS to less than 100 psig and lower pressurizer level to less than 25%, or

   2. Depressurize the RCS and open at least one PORV and its block valve.

SURVEILLANCE REQUIREMENT

4.3.2.G Low Temperature Overpressure Protection (Continued)

3. Not applicable.

3. When starting a reactor coolant pump, when no reactor coolant pumps are running, the temperature in the steam generator secondary side in any unisolated RCS loop shall be less than 50° F higher than the RCS temperature.

THE LTOP enable temperatures specified in the PTLR

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
3.3.2.G. Low Temperature Overpressure Protection (Continued)	4.3.2.G. Low Temperature Overpressure Protection (Continued)
b. The Reactor Coolant System (RCS) pressure shall be less than 100 psig, and the pressurizer level less than 25%, or	4. Verifying each PORV's isolation valve is open at least once per shift when this method is being used for low temperature overpressure protection. 5. Testing pursuant to Specification 4.0.5. b. The RCS pressure shall be verified to be less than 100 psig, and pressurizer level shall be verified to be less than 25% at least once per shift, when this method is being used for low temperature overpressure protection.
c. The RCS is depressurized and one PORV and its isolation valve are open.	c. Verifying one PORV and its isolation valve are open at least once per shift, when this method is being used for low temperature overpressure protection.
2. A maximum of one* charging pump aligned for injection into the RCS, and no accumulators and no safety injection pumps, shall be OPERABLE.	2. At least two of the three charging pumps* and all accumulators and all safety injection pumps, shall be verified to be incapable of injecting into the RCS prior to entering a condition in which they are required to be inoperable, and at least once per shift thereafter while they are required to be inoperable.
* For short durations of time during pump switchover, two charging pumps may be OPERABLE for the purpose of maintaining seal injection flow to the reactor coolant pumps.	

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
3.3.2.G. Low Temperature Overpressure Protection (Continued) 3. When starting a reactor coolant pump, when no reactor coolant pumps are running, the temperature in the steam generator secondary side in any unisolated RCS loop shall be less than 50°F higher than the RCS temperature.	4.3.2.G. Low Temperature Overpressure Protection (Continued) 3. Not applicable.
APPLICABILITY: Mode 4 when the temperature of any RCS cold leg is less than or equal to the LTOP enable temperature specified in the PTLR, MODE 5 and MODE 6 with the reactor vessel head on.	
ACTION: a. With one PORV inoperable in MODE 4, restore the inoperable PORV to OPERABLE status within 7 days, or within the next 24 hours either; 1. Depressurize the RCS to less than 100 psig and lower pressurizer level to less than 25%, or 2. Depressurize the RCS and open at least one PORV and its block valve. b. With one PORV inoperable in MODES 5 or 6, restore the inoperable PORV to operable status within 24 hours, or within the next 24 hours either; 1. Depressurize the RCS to less than 100 psig and lower pressurizer level to less than 25%, or 2. Depressurize the RCS and open at least one PORV and its block valve.	

ATTACHMENT C

ZION NUCLEAR GENERATING STATION

EVALUATION OF SIGNIFICANT HAZARD CONSIDERATIONS FOR PROPOSED CHANGES TO APPENDIX A TECHNICAL SPECIFICATIONS FACILITY OPERATING LICENSES DPR-39 AND DPR-48

SUPPLEMENT TO LICENSE AMENDMENT REQUEST 96-02

Commonwealth Edison has evaluated the previously proposed amendment and determined that it involves no significant hazards considerations. This was documented in the original License Amendment Request (Ref. 1). This supplement to the LAR changes two Technical Specifications to ensure the bounding analysis assumptions of the PTLR are maintained, and graphically illustrates information that had previously been identified in a text. Since these changes are either more restrictive, or are editorial in nature, the changes are bounded by the previous evaluation of significant hazards considerations.

Therefore, the changes contained in this supplement do not alter ComEd's previous conclusion that the proposed amendment does not involve a significant increase in the probability or consequences of a previously evaluated accident, does not create the possibility of a new or different kind of accident from any previously evaluated accident, and does not involve a significant reduction in a margin of safety.

ATTACHMENT D

ZION NUCLEAR GENERATING STATION

ENVIRONMENTAL ASSESSMENT STATEMENT FOR PROPOSED CHANGES TO APPENDIX A TECHNICAL SPECIFICATIONS FACILITY OPERATING LICENSES DPR-39 AND DPR-48

SUPPLEMENT TO LICENSE AMENDMENT REQUEST 96-02

The proposed changes to the previous license amendment request were evaluated against the criteria for and identification of licensing and regulatory actions requiring environmental assessment in accordance with 10 CFR 51.21. It was determined that the proposed changes meet the criteria for categorical exclusion as provided for under 10 CFR 51.22(c)(9). This was documented in the original License Amendment Request (Ref. 1). These changes do not change any of the original evaluations and determinations. Therefore the conclusions of the original environmental assessment remain valid.

ATTACHMENT E

ZION NUCLEAR GENERATING STATION

REVISED PTLR PRESSURE/TEMPERATURE CURVES
SUBMITTED IN SUPPORT OF
PROPOSED CHANGES TO
APPENDIX A TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSES
DPR-39 AND DPR-48

SUPPLEMENT TO LICENSE AMENDMENT REQUEST 96-02

MATERIAL PROPERTY BASIS

LIMITING MATERIAL: CIRCUMFERENTIAL WELD SA-1769
LIMITING ART VALUES AT 32/25.63 EFPY: 1/4T, 233.0°F
3/4T, 183.3°F

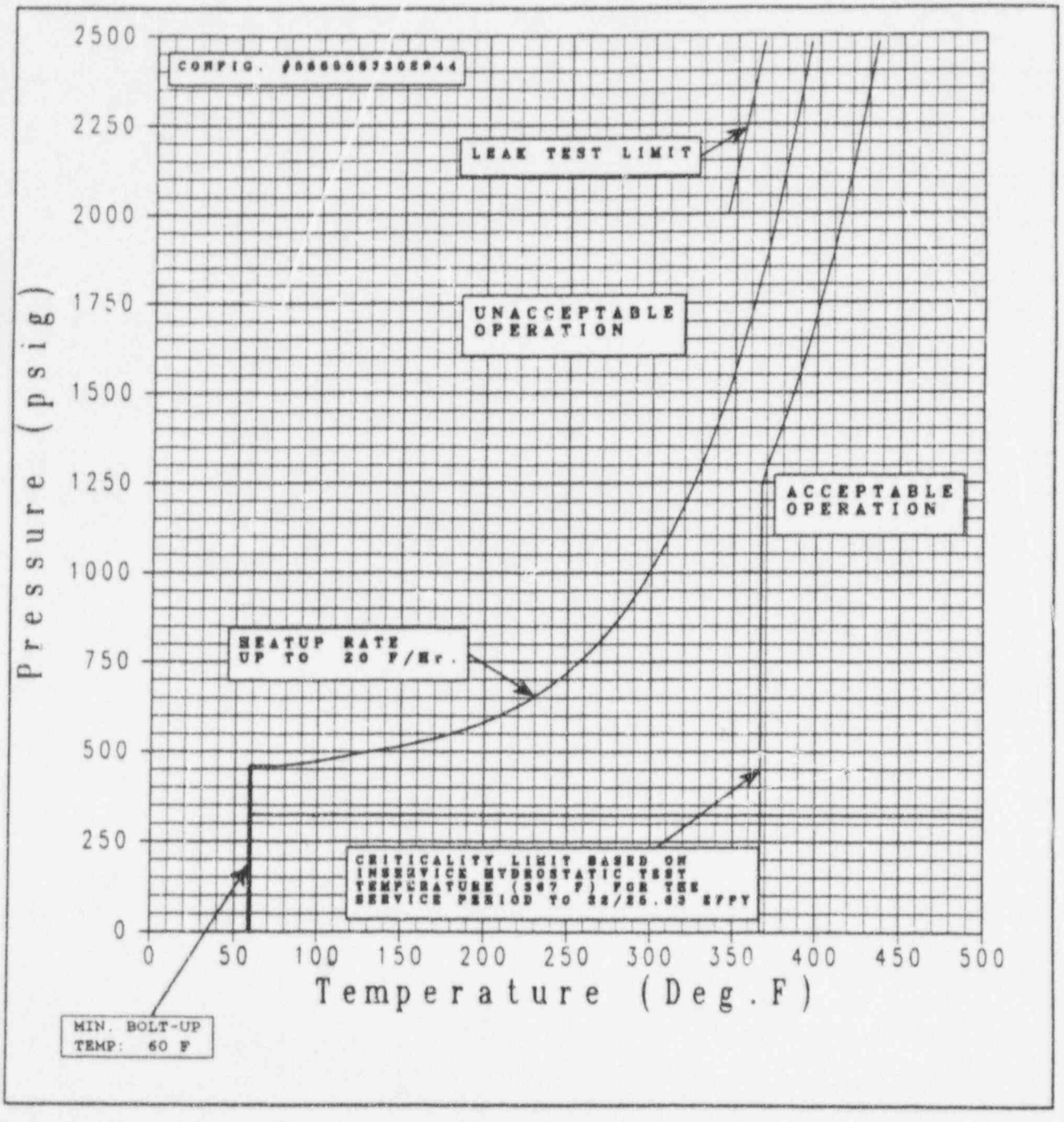

FIGURE 1 Zion Units 1 and 2 Reactor Coolant System Heatup Limitations (Heatup Rates up to 20°F/hr) Applicable to at Least 32 EFPY for Zion Unit 1 and Applicable to 25.63 EFPY for Zion Unit 2 (Without Margins for Instrumentation Errors)

MATERIAL PROPERTY BASIS

LIMITING MATERIAL: CIRCUMFERENTIAL WELD SA-1769
LIMITING ART VALUES AT 32/25.63 EFPY: 1/4T, 233.0°F
3/4T, 183.3°F

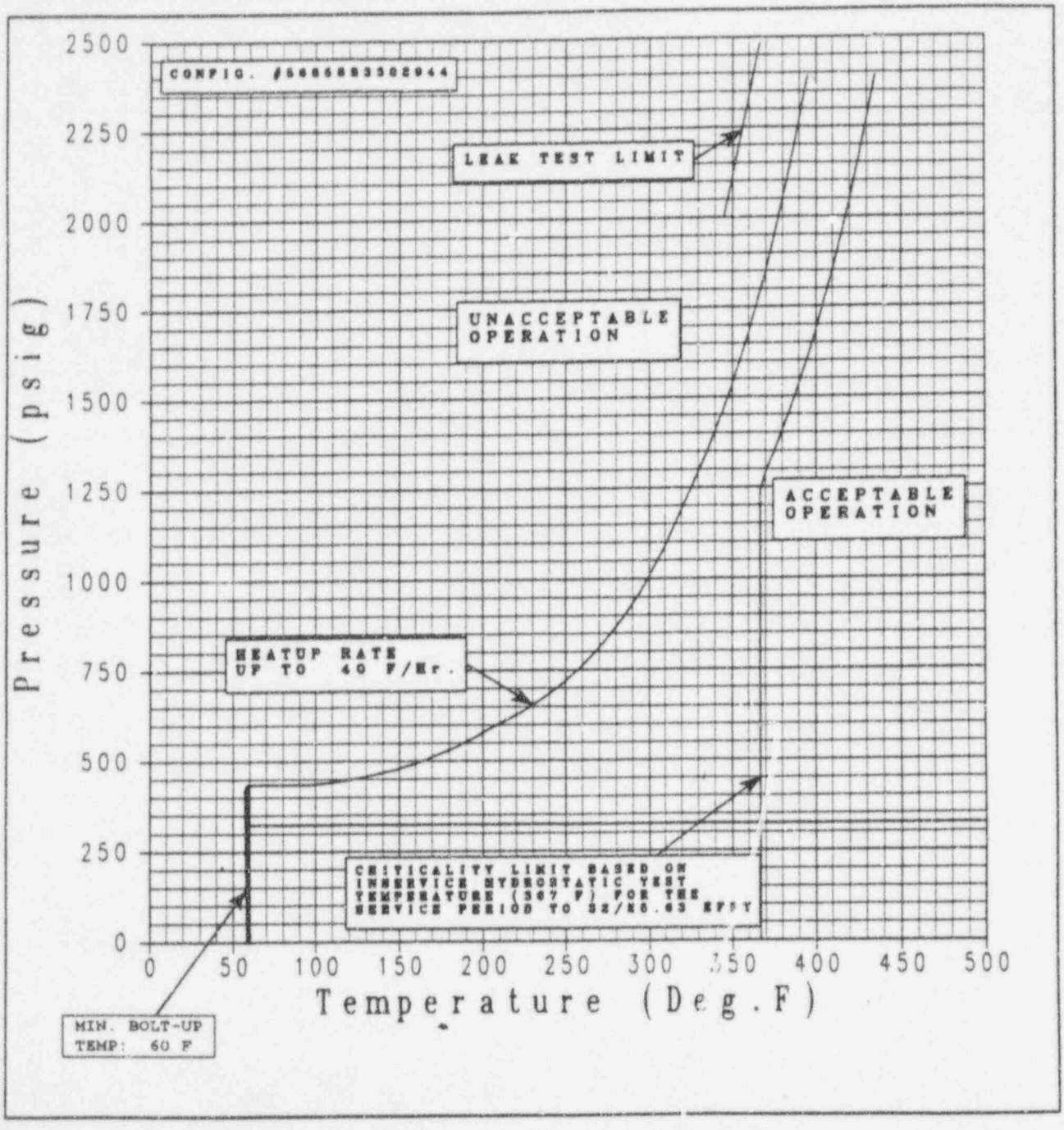

FIGURE 2 Zion Units 1 and 2 Reactor Coolant System Heatup Limitations (Heatup Rates up to 40°F/hr) Applicable to at Least 32 EFPY for Zion Unit 1 and Applicable to 25.63 EFPY for Zion Unit 2 (Without Margins for Instrumentation Errors)

MATERIAL PROPERTY BASIS

LIMITING MATERIAL: CIRCUMFERENTIAL WELD SA-1769
LIMITING ART VALUES AT 32/25.63 EFPY: 1/4T, 233.0°F
3/4T, 183.3°F

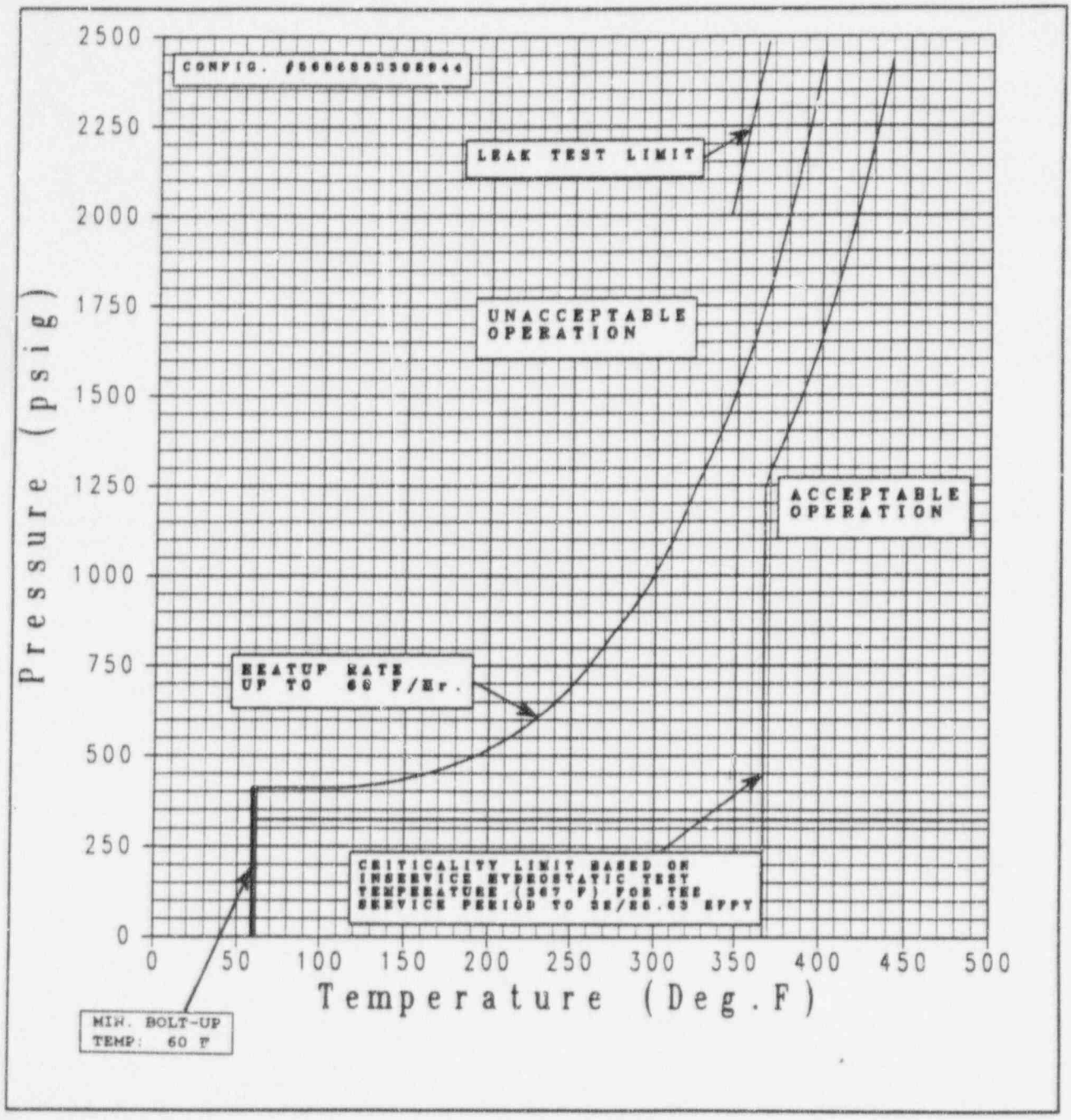

FIGURE 3 Zion Units 1 and 2 Reactor Coolant System Heatup Limitations (Heatup Rates up to 60°F/hr) Applicable to at Least 32 EFPY for Zion Unit 1 and Applicable to 25.63 EFPY for Zion Unit 2 (Without Margins for Instrumentation Errors)

MATERIAL PROPERTY BASIS

LIMITING MATERIAL: CIRCUMFERENTIAL WELD SA-1769
LIMITING ART VALUES AT 32/25.63 EFPY: 1/4T, 233.0°F
3/4T, 183.3°F

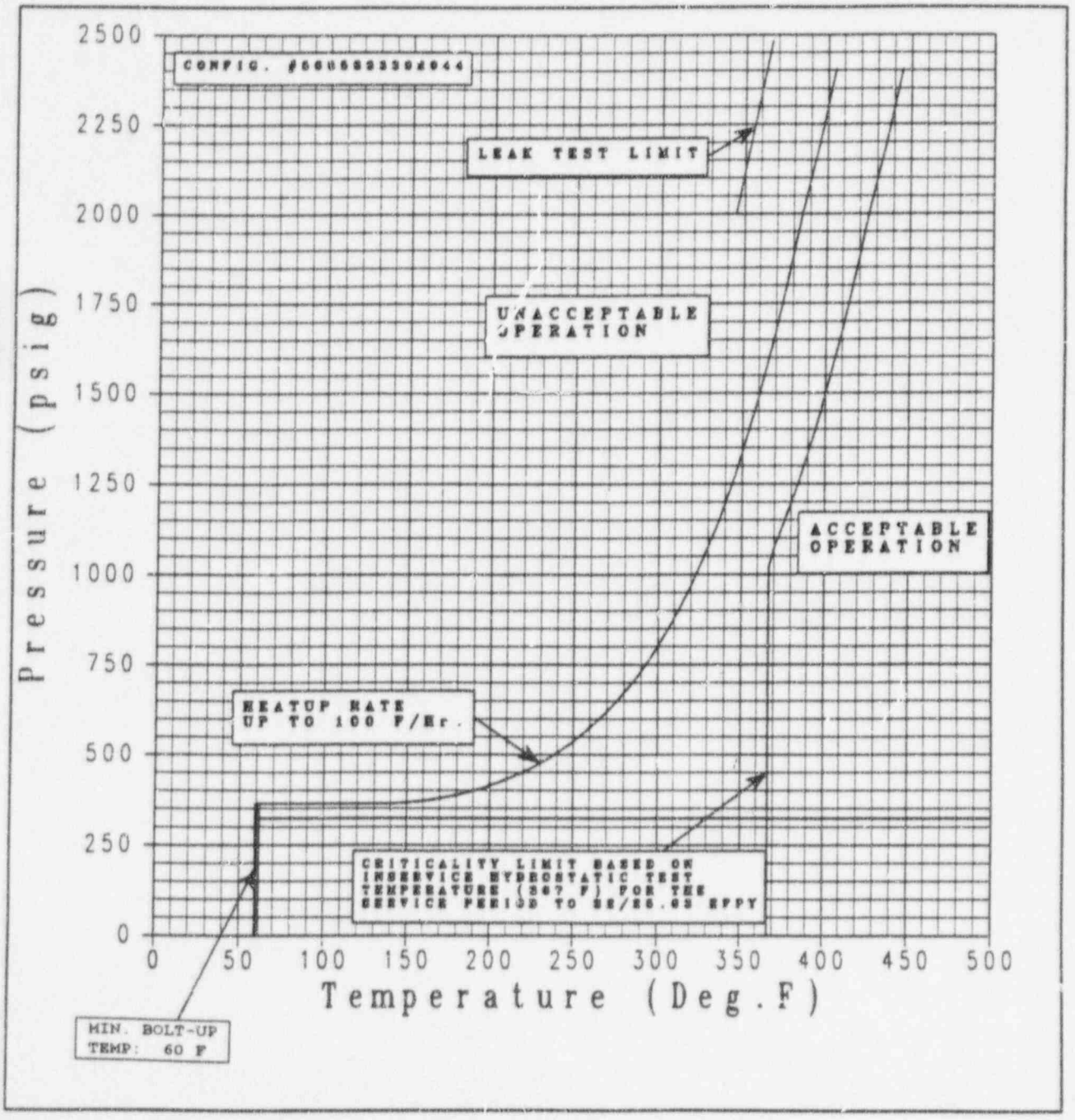

FIGURE 4 Zion Units 1 and 2 Reactor Coolant System Heatup Limitations (Heatup Rates up to 100°F/hr) Applicable to at Least 32 EFPY for Zion Unit 1 and Applicable to 25.63 EFPY for Zion Unit 2 (Without Margins for Instrumentation Errors)

MATERIAL PROPERTY BASIS

LIMITING MATERIAL: CIRCUMFERENTIAL WELD SA-1769
LIMITING ART VALUES AT 32/25.63 EFPY: 1/4T, 233.0°F
3/4T, 183.3°F

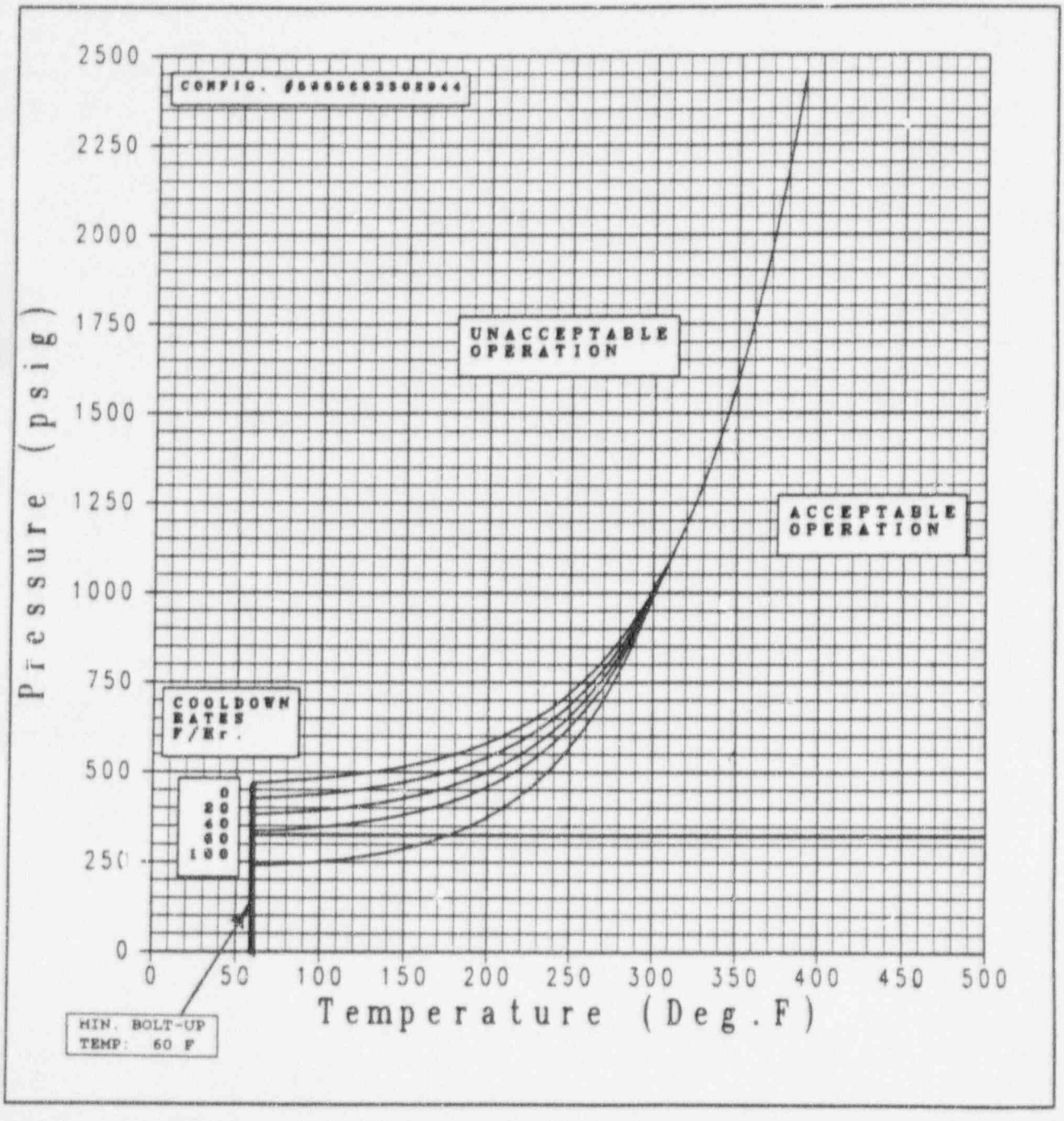

FIGURE 5 Zion Units 1 and 2 Reactor Coolant System Cooldown Limitations (Cooldown Rates up to 100°F/hr) Applicable to at Least 32 EFPY for Zion Unit 1 and Applicable to 25.63 EFPY for Zion Unit 2 (Without Margins for Instrumentation Errors)