



Wisconsin Electric POWER COMPANY
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November 16, 1978

CERTIFIED MAIL

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

Dear Mr. Denton:

DOCKET NOS. 50-266 AND 50-301
REVISION TO HEATUP AND COOLDOWN CURVES
TECHNICAL SPECIFICATION CHANGE REQUEST NO. 57
POINT BEACH NUCLEAR PLANT UNITS 1 AND 2

In accordance with Section 50.59 of 10 CFR Part 50, Wisconsin Electric Power Company (Licensee) hereby requests an amendment to Facility Operating Licenses DPR-24 and DPR-27 to incorporate certain changes to the Technical Specifications for the Point Beach Nuclear Plant Units 1 and 2. These changes consist of revisions to the reactor coolant system heatup and cooldown limitation curves for operation of the Point Beach Nuclear Plant.

Technical Specification 15.3.1.B.4 requires that revised reactor coolant system temperature and pressure limit figures shall be submitted to the Commission at least 60 days before the calculated exposure of the applicable reactor vessel exceeds the exposure for which the figures apply. The present figures for Unit 2, 15.3.1-3 and 15.3.1-4, are applicable to five effective full power years (EFPY) of operation. It is predicted that Unit 2 will reach five EFPY of operation in January 1979. Therefore, we are providing herewith revised heatup and cooldown limitation figures for Point Beach Unit 2 extended to seven EFPY. It is estimated that this revision would extend the applicability of these figures through May 1981. These curves were developed using methods and data provided in Westinghouse Topical Report WCAP-8738.

Licensee would also take this opportunity to extend the period of applicability for the present Point Beach Unit 1 heatup and cooldown limitation figures, 15.3.1-1 and 15.3.1-2. As discussed in my letter dated October 1, 1976, the present Unit 1 and Unit 2 heatup and cooldown limitation figures were developed based on the data and methods in Westinghouse Topical Reports WCAP-8743 and -8738 respectively. We noted that these reports were still in draft form at that time and that we would submit these reports, along with the balance of our Appendix G compliance program results, as soon as they were fully reviewed, approved and released. This was done with my letter to Mr. Rusche of March 4, 1977. We have determined, using the methods in WCAP-8743 as provided to the NRC, that the present Unit 1 heatup and cooldown limit curves, namely figures 15.3.1-1 and 15.3.1-2, are applicable up to eleven EFPY. We would therefore request that the period of applicability of these figures be revised from seven EFPY to eleven EFPY. We predict that Point Beach Unit 1 will reach eleven EFPY of reactor vessel exposure in July 1985.

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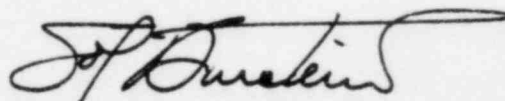
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You will notice that although the periods of applicability are different, the heatup and cooldown curves proposed herein for both units are essentially identical. The results of chemical analysis of the reactor vessel weld metals showed that the copper content of the Unit 2 weld metal is higher than that of the Unit 1 vessel. As a result of this, for any given vessel exposure, the correct ΔRT_{NDT} versus fluence prediction (0.25% Copper Base, 0.20% Weld line for Unit 1 and the 0.30% Copper Base, 0.25% Weld line for Unit 2) will show a larger ΔRT_{NDT} shift for Unit 2 than for Unit 1. In the case of the attached curves, the ΔRT_{NDT} shift for each unit is the same, hence the period of applicability for Unit 2 must be less than Unit 1.

Licensee has reviewed the requirements of 10 CFR Part 171.22 regarding the schedule of fees for facility license amendments. It is our determination that the license amendment for DPR-27 for Point Beach Nuclear Plant Unit 2 should be classified as a Class III amendment, in that a single issue having no significant hazards considerations is involved. The license amendment for DPR-24 for Point Beach Nuclear Plant Unit 1, while not precisely a duplicate of the Unit 2 application, deals with the identical subject and concerns and is therefore classified as a Class I amendment. Accordingly, we have enclosed herewith check number 409803 for \$4400 which is the full amount of the amendment fees.

We have enclosed herewith three signed originals of the license amendment request. We shall provide under separate cover forty copies of the request. Attached to each copy of the request are proposed revised Technical Specification figures which reflect the changes discussed herein. Any questions or clarifications you may have on this license amendment request should be directed to me.

Very truly yours,




Executive Vice President

Sol Burstein

Enclosures

Subscribed and sworn to before me
this 16th day of November, 1978.


Notary Public, State of Wisconsin

My Commission expires July 6, 1980.

FIGURE 15.3.1-1

PBNP Unit No. 1 - Heatup Limitations
Applicable to 11 Effective Full Power
Years (Approx. July 1985)
Instrument Errors are included.

Inservice
Pressure Test

Unacceptable
Operation
Region

Heatup Rates of

0 F/hr
50 F/hr
100 F/hr

Core
Criticality
Limit

Temperature, °F

Reactor Coolant System Pressure, psig

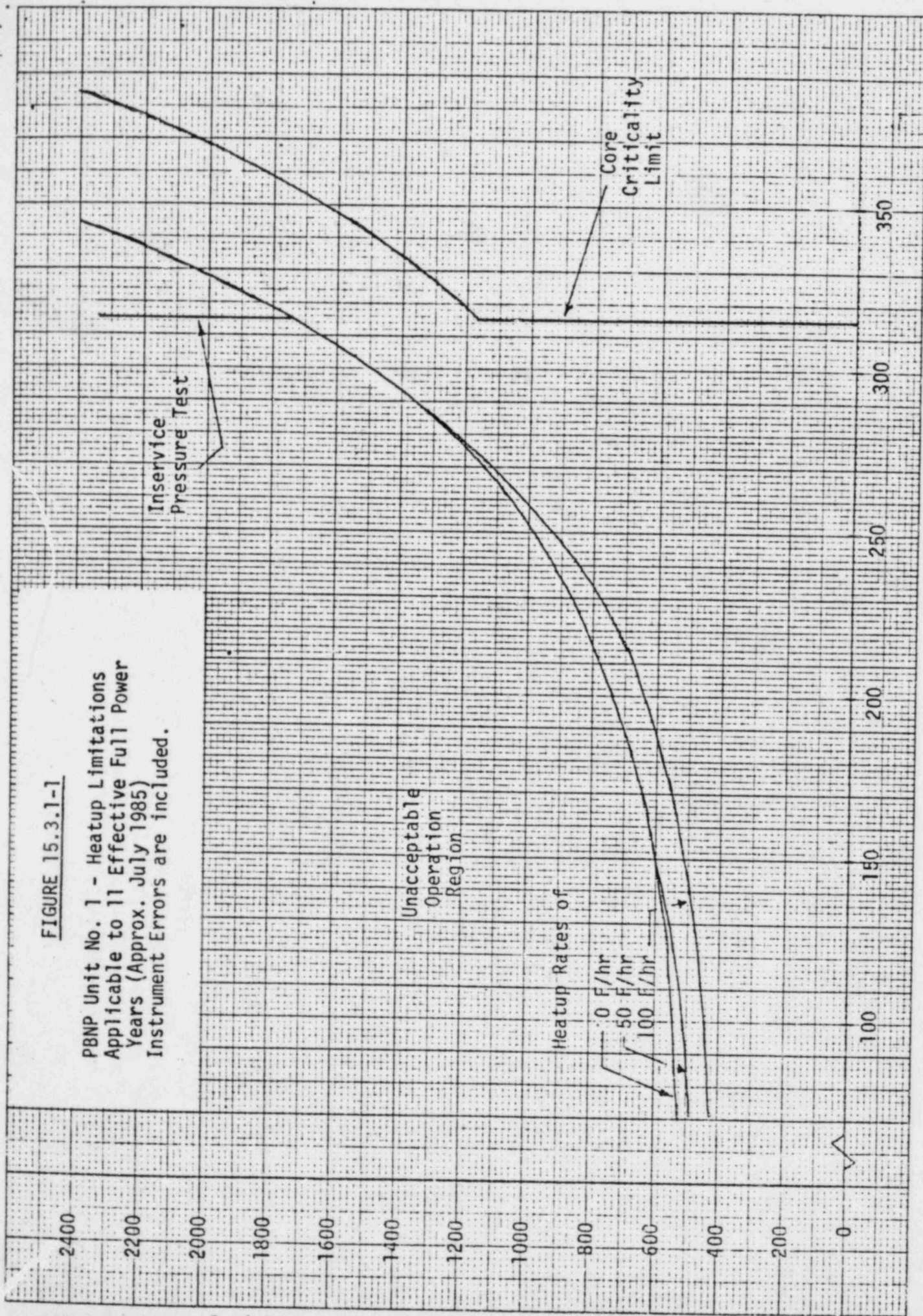
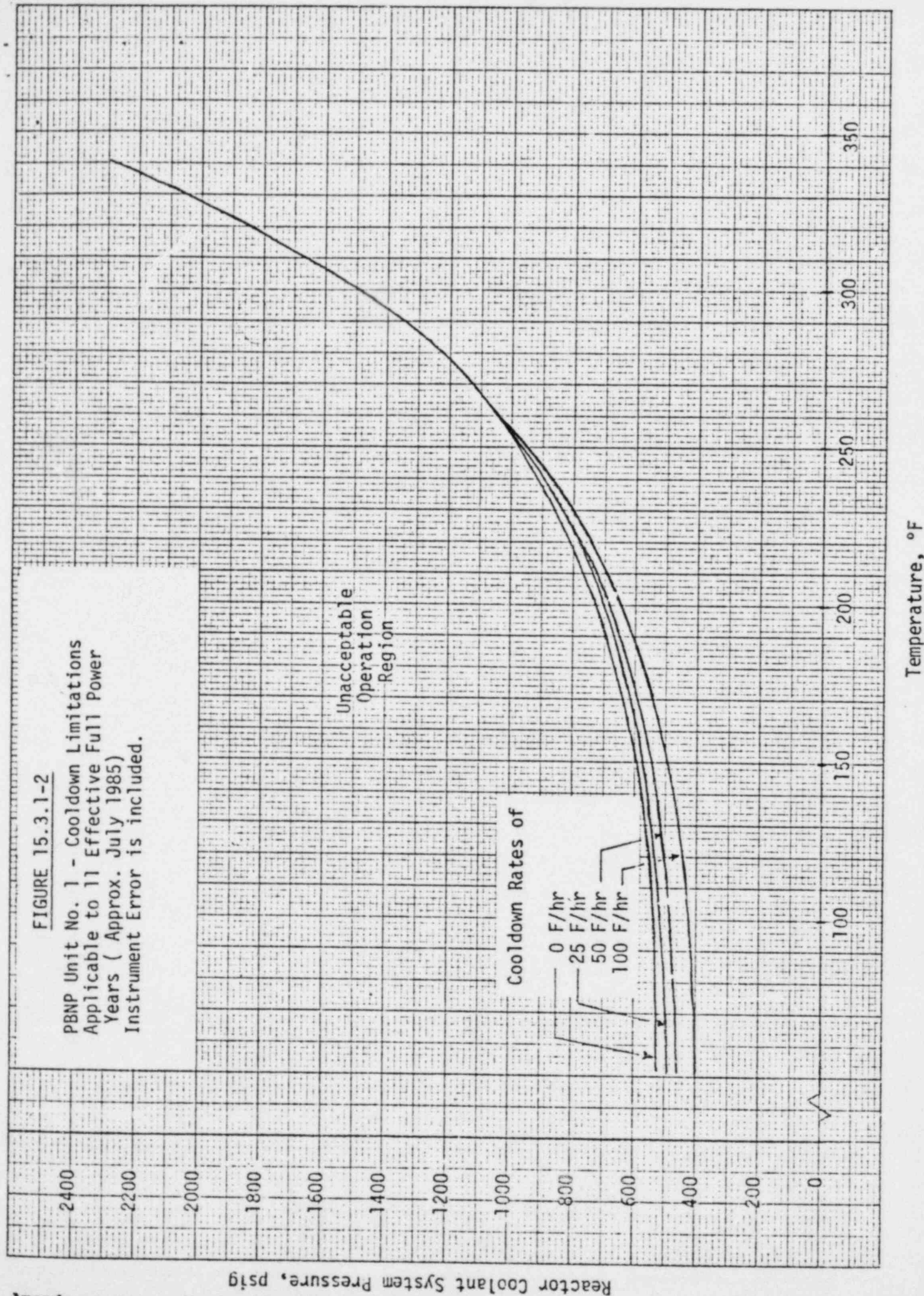


FIGURE 15.3.1-2

PBNP Unit No. 1 - Cooldown Limitations
Applicable to 11 Effective Full Power
Years (Approx. July 1985)
Instrument Error is included.



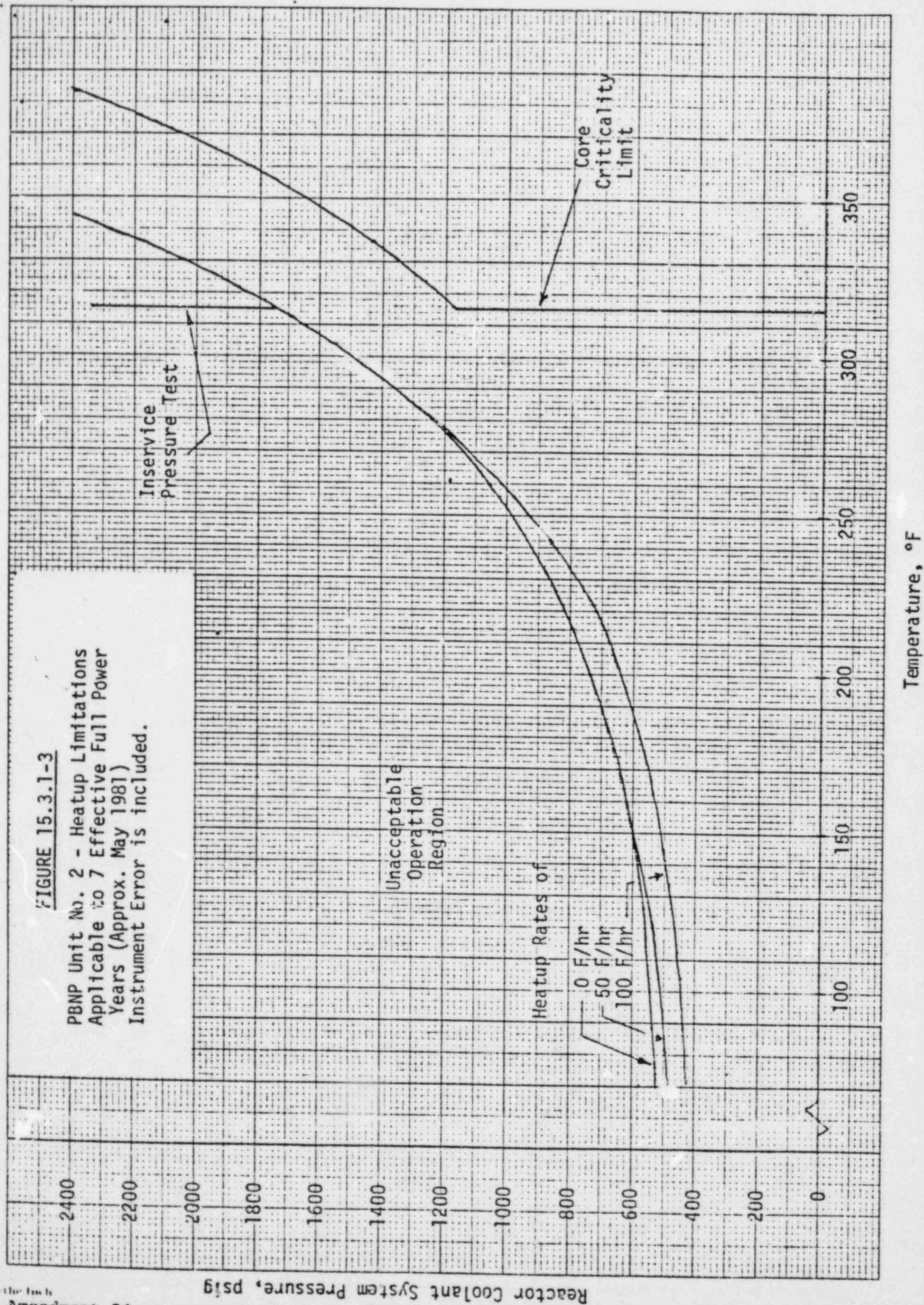


FIGURE 15.3.1-4

PBNP Unit No. 2 - Cooldown Limitations
Applicable to 7 Effective Full Power
Years (Approx. May 1981)
Instrument Error is included.

Unacceptable
Operation
Region

Cooldown Rates of

0 F/hr
25 F/hr
50 F/hr
100 F/hr

Temperature, °F

Reactor Coolant System Pressure, psig

