



Commonwealth Edison

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January 3, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Byron Generating Station Units 1 and 2
Braidwood Generating Station Units 1 and 2
Reactor Vessel Temperature Limits
NRC Docket Nos. 50-454/455 and 50-456/457

Dear Mr. Denton:

This is to provide revised temperature limits for the Byron and Braidwood reactor vessels. These revisions were made necessitated by the May 27, 1983 amendment of Appendix G to 10CFR50.

The heatup and cooldown temperature limit curves for all of the Byron/Braidwood reactor vessels have been reviewed against the amended Appendix G requirements. Only the cooldown curves for Byron 1 and Braidwood 2 must be changed to incorporate the new closure flange limitations. Revised copies of those curves (FSAR figures 3.4-3a and 3.4-5b) are enclosed with this letter. Also enclosed is Table I, showing the data used in this review.

These two cooldown curves are to be incorporated into the plant Technical Specifications. They will not be incorporated into the FSAR since it is not our intent to keep current the proposed technical specifications contained in the FSAR.

We understand that the amended Appendix G provides an option for analyzing closure flange region stresses to demonstrate that they are less limiting than the beltline region. If that were done, the special limitations on the enclosed curves would be unnecessary. At some point in the future we expect to pursue that option but for now we will abide by the limits shown in the FSAR, and as shown in the enclosed curves.

Please direct questions regarding this matter to this office.

One (1) signed original and fifteen (15) copies of this letter and the enclosures are provided for NRC review.

Very truly yours,

T. R. Tramm
Nuclear Licensing Administrator

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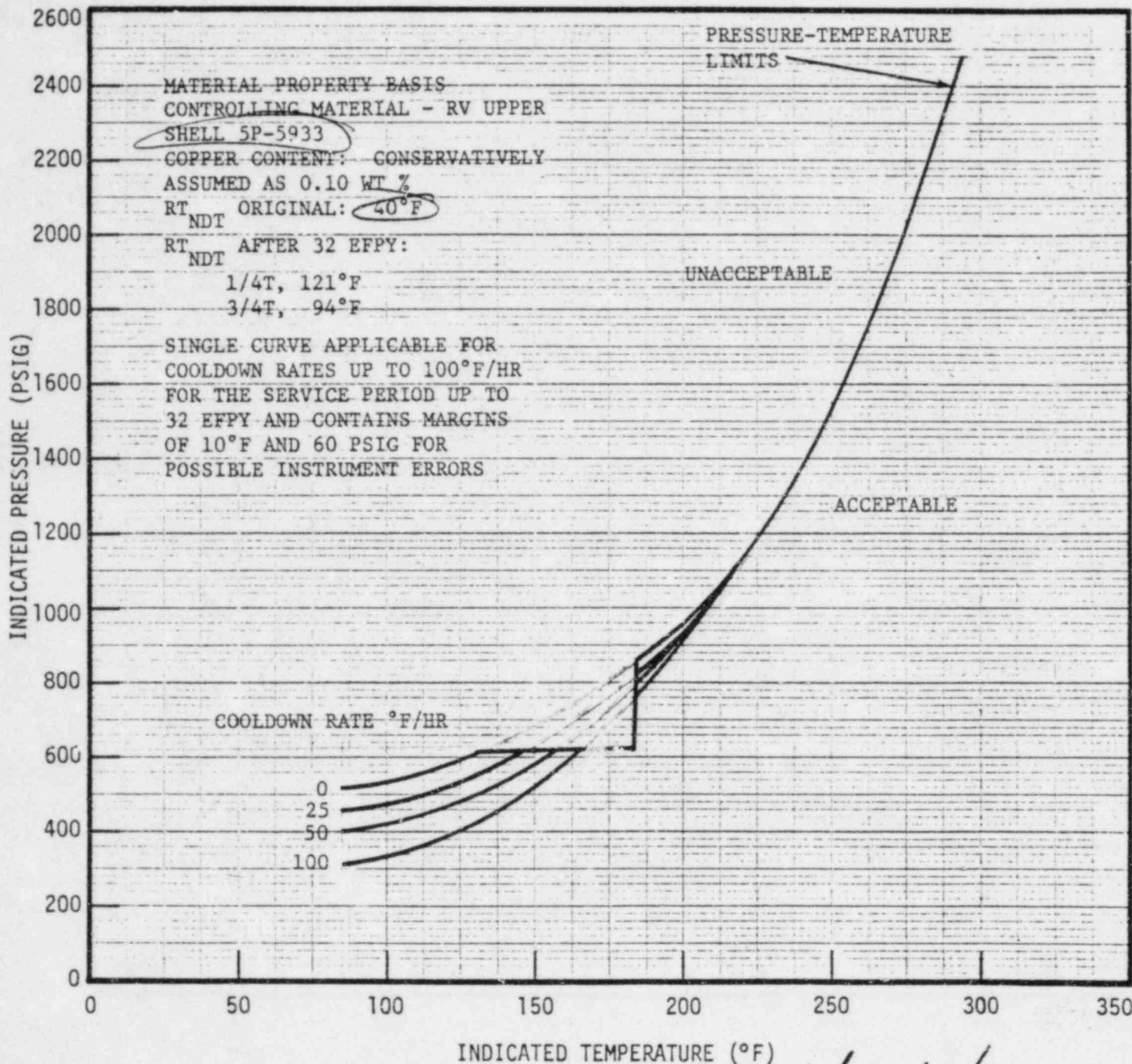
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TABLE I: Data used for P-T curves evaluation per 10CFR App. G

Vessel	Closure Flange RT_{NDT}^1 °F	$(RT_{NDT} + 90)$ °F	$(RT_{NDT} + 120)$ °F	Preservice Hydro. Pressure P psig	20%P psig
Byron 1	60	150	180	3107	621.4
Byron 2	0	90	120	3107	621.4
Braidwood 1	-20	70	100	3107	621.4
Braidwood 2	20	110	140	3107	621.4

1. Reference Temperatures, RT_{NDT} , were obtained from B/B FSAR Q251.

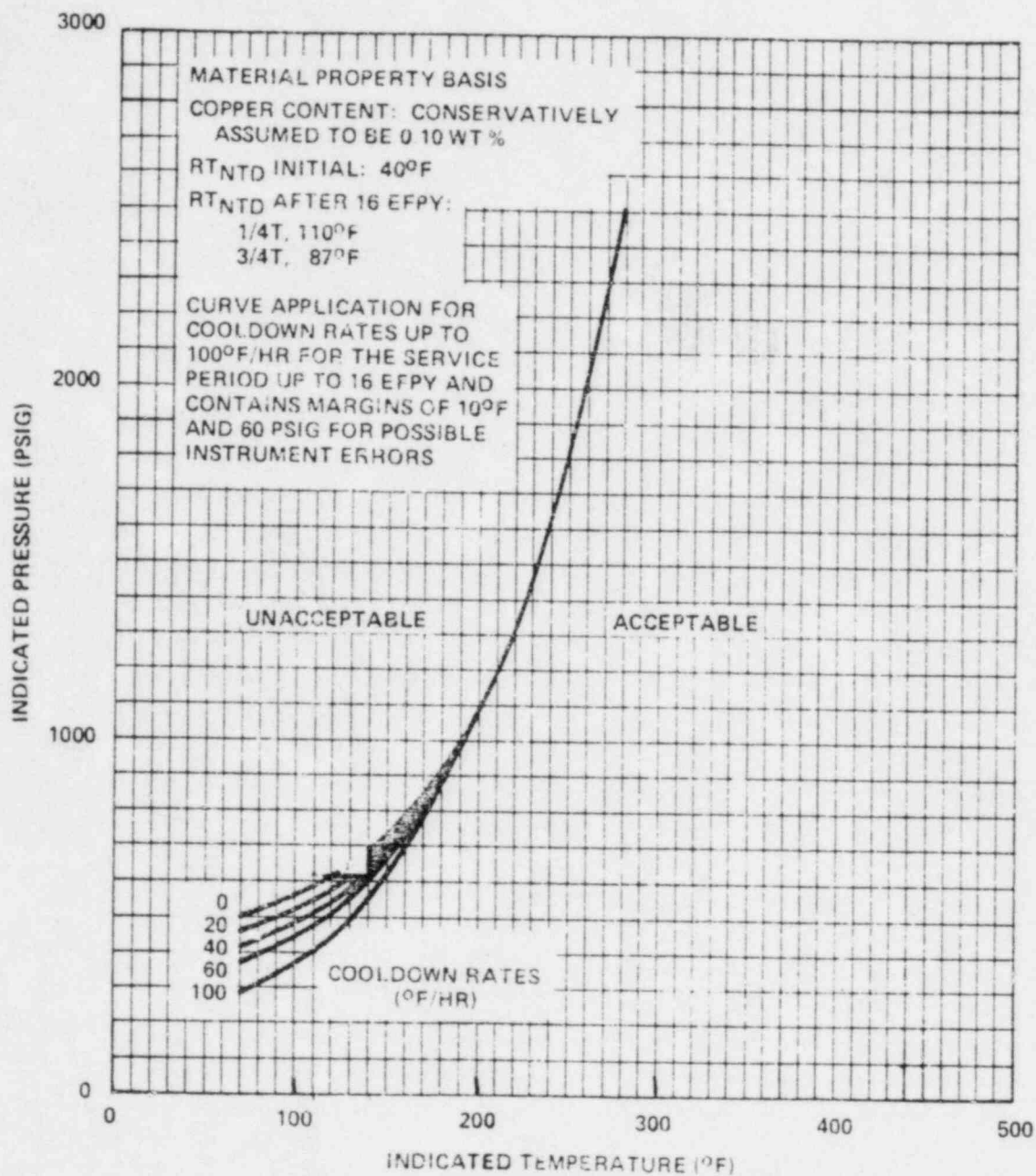


Unit 1

BYRON STATION
FINAL SAFETY ANALYSIS REPORT

FIGURE 3.4-3a

REACTOR COOLANT SYSTEM COOLDOWN
LIMITATIONS APPLICABLE TO 32 EFPY



BRAIDWOOD STATION
FINAL SAFETY ANALYSIS REPORT

FIGURE 3.4-5b

BRAIDWOOD UNIT 2 REACTOR
COOLANT SYSTEM COOLDOWN LIMITATIONS
APPLICABLE UP TO 16 EFY