

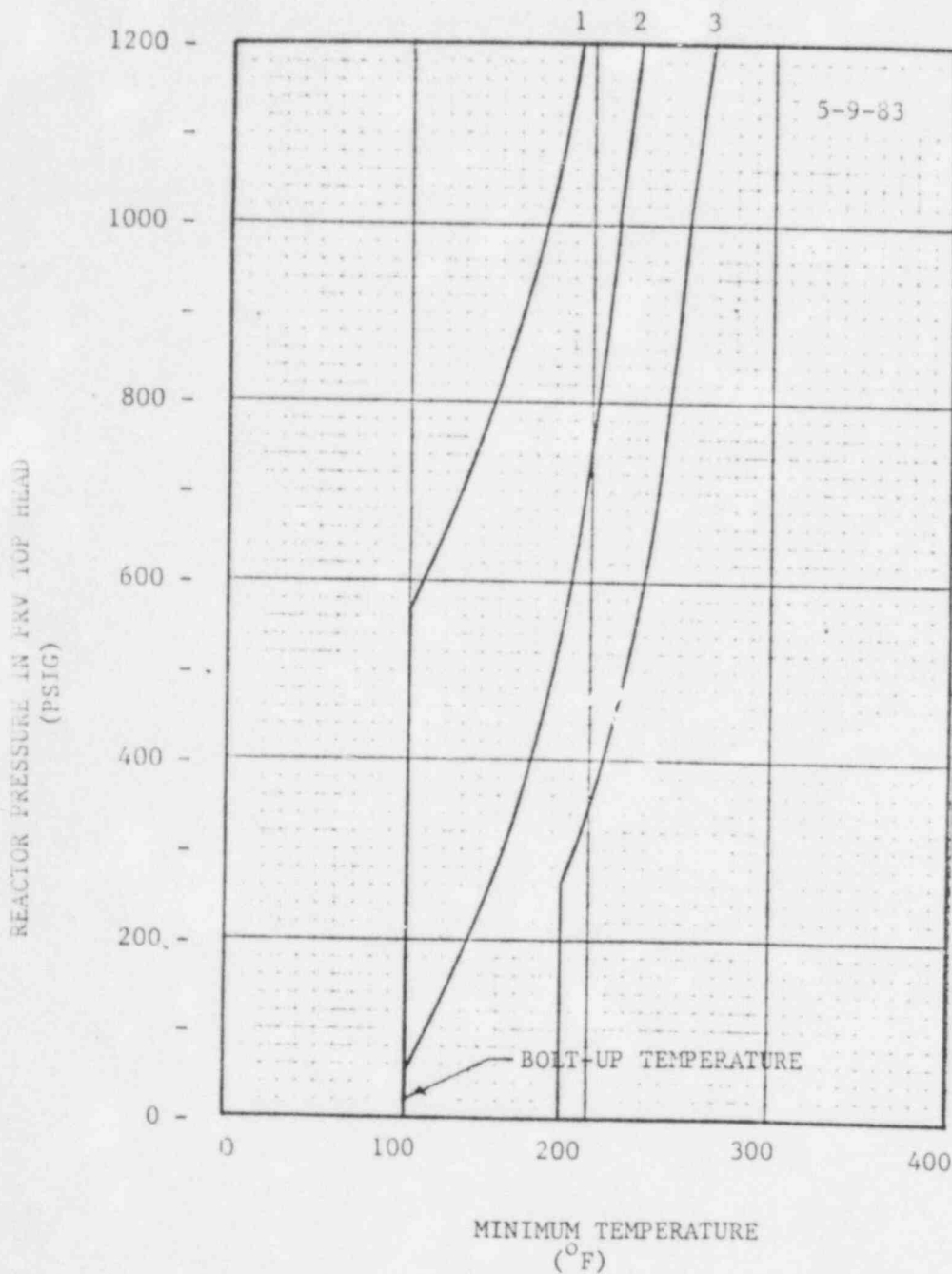
ENCLOSURE 1

PROPOSED TECHNICAL SPECIFICATION REVISIONS
BROWNS FERRY NUCLEAR PLANT
UNITS 1, 2, AND 3
(TVA BFNP TS 178 SUPPLEMENT 1)

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UNIT 1

Figure 3.6-1



Curve #1

Minimum temperature for pressure tests such as required by Section XI. Minimum temperature of 186°F is required for test pressure of 1,100 psig.

Curve #2

Minimum temperature for mechanical heatup or cooldown following nuclear shutdown.

Curve #3

Minimum temperature for core operation (criticality) includes additional margin required by 10CFR50, Appendix G, Par. IV A.2.C.

Notes

These curves include sufficient margin to provide protection against feedwater nozzle degradation. The curves also include a 36°F shift in RTNDT of the reactor vessel beltline material. This shift will allow these curves to be used up to 6.0 EFPY

UNIT 2

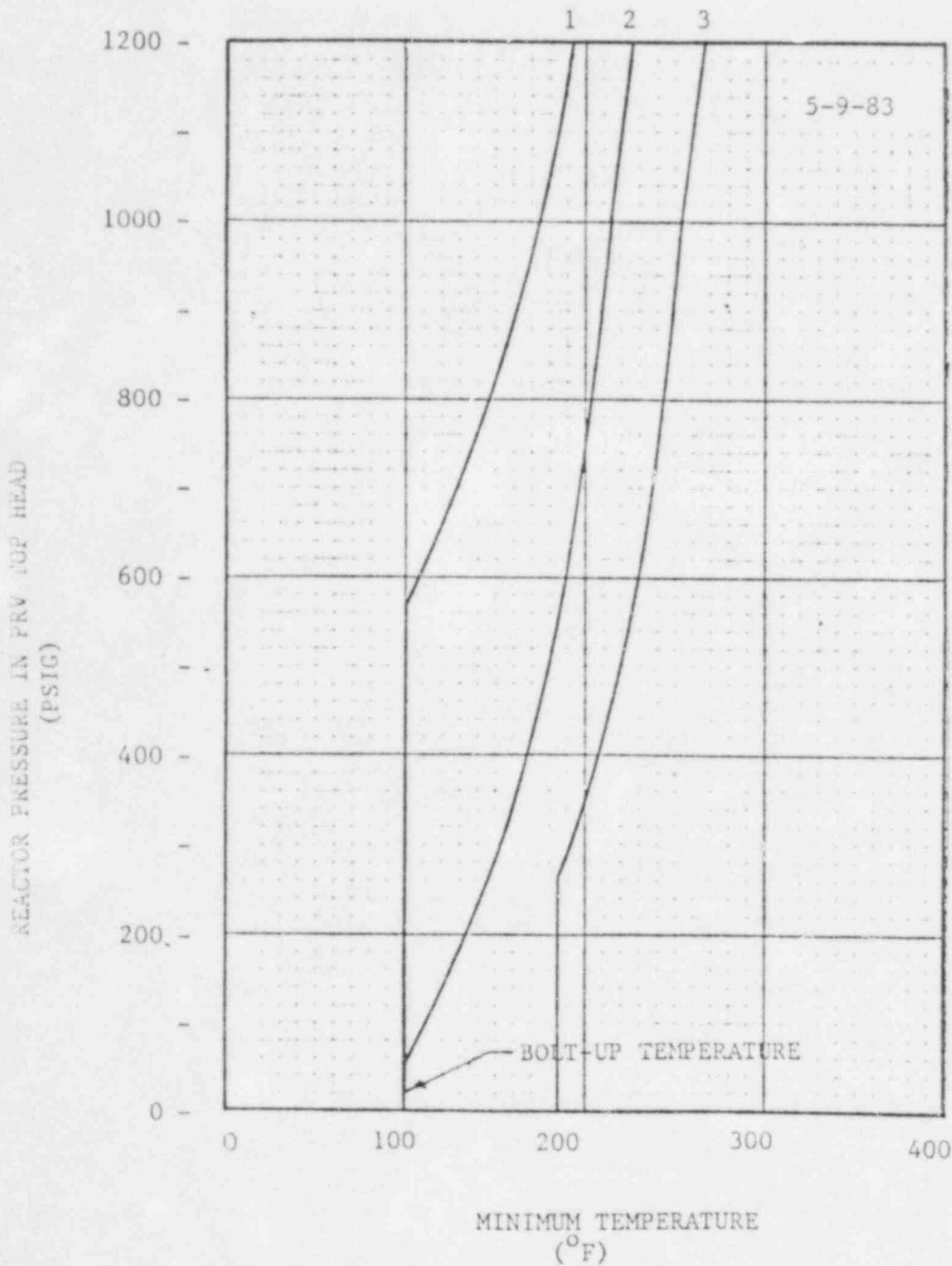


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UNIT 3

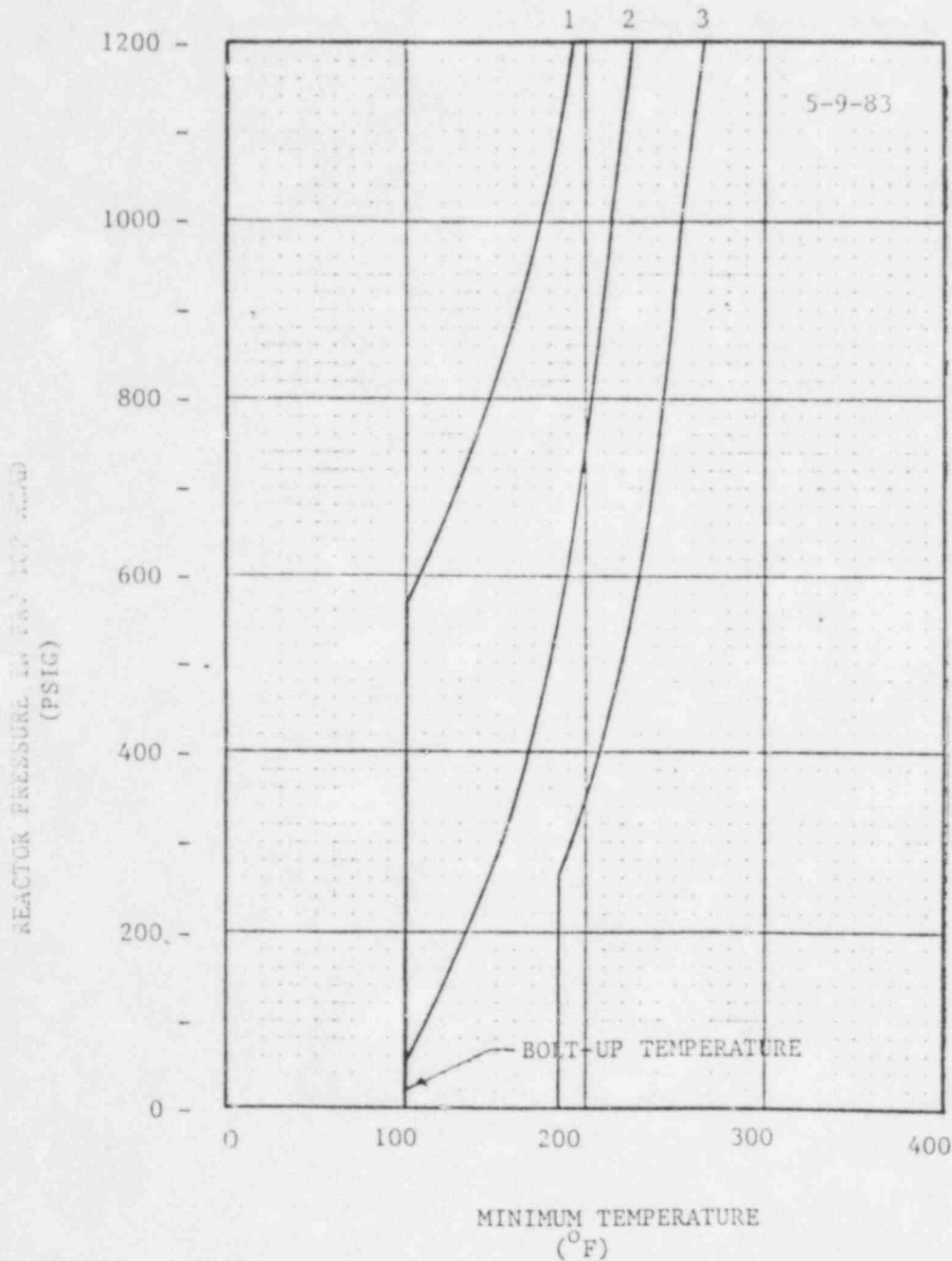


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Notes

These curves include sufficient margin to provide protection against feedwater nozzle degradation. The curves also include a 36°F shift in RTNDT of the reactor vessel beltline material. This shift will allow these curves to be used up to 6.0 EFPP.

ENCLOSURE 2
DESCRIPTION AND JUSTIFICATION
(TVA BFPN TS 178 SUPPLEMENT 1)

Page 194 - Units 1 and 2

Page 207 - Unit 3

Description

This is a proposed change to figure 3.6-1 for all three units. This figure shows curves of minimum temperatures as a function of reactor pressure for pressure tests such as ASME Section XI, for mechanical heatup or cooldown following nuclear shutdown and for core operation (criticality). The existing figure 3.6-1 is applicable only through 4.0 Effective Full Power Years (EFPY). This proposed change extends applicability through 6.0 EFPY.

Reasons/Justification

This existing figures (through 4.0 EFPY) are nonconservative for application beyond 4.0 EFPY. These proposed revisions are submitted to maintain the margin of safety provided by the earlier version of Figure 3.6-1. This revision is needed to accommodate the shift in RT_{NDT} necessitated by increasing neutron fluence on the pressure vessel walls as the pressure vessel ages. The revision shifts RT_{NDT} 36°F which is a 6°F increase over the previous revision to figure 3.6-1. This revision is necessary to maintain the same degree of overall plant safety.

Safety Analysis

All changes are in the conservative direction, i.e., shifted toward higher temperatures at lower pressures. This is a safer mode of operation than is currently allowed, thus there is no safety concern associated with making this change. Plant operation of units 1, 2, and 3 is presently restricted administratively to the conservative curves of enclosure 1.

ENCLOSURE 3

Significant Hazards Consideration
(TVA BFNTP TS 178 SUPPLEMENT 1)

1. Does the proposed amendment involve a significant increase in the probability or consequences of an accident previously evaluated?

No. The revision reflects a 6°F temperature change in the conservative direction and provides a margin of safety which complies with the fracture toughness requirements in 10 CFR 50, appendix G; therefore, this revision does not involve a significant increase in the probability or consequence of an accident previously evaluated.

2. Does the proposed amendment create the possibility of a new or different kind of accident from any accident previously evaluated?

No. A 6°F increase in pressure-temperature operating requirements is an increase in the conservative direction and will not create the possibility of a new or different kind of accident from any previously evaluated.

3. Does the proposed amendment involve a reduction in a margin of safety?

No. The revision does not involve a reduction in the margin of safety. As stated in (1), the revision reflects a 6°F temperature change in the conservative direction and provides a margin of safety which complies with the fracture toughness requirements in 10 CFR 50, appendix G.