

ACTIONS (continued)

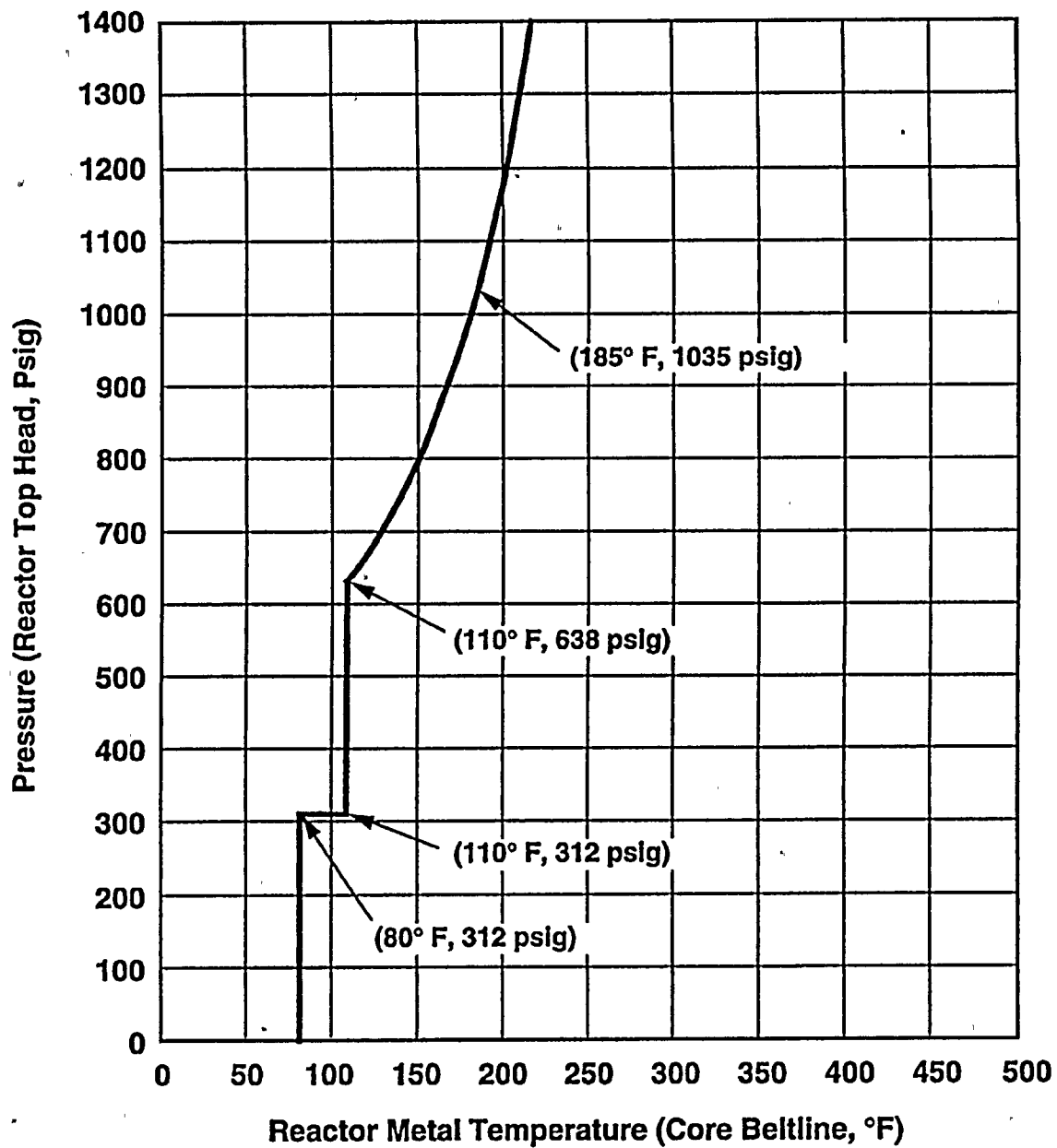
CONDITION	REQUIRED ACTION	COMPLETION TIME
C. -----NOTE----- Required Action C.2 shall be completed if this Condition is entered. ----- Requirements of the LCO not met in other than MODES 1, 2, and 3.	C.1 Initiate action to restore parameter(s) to within limits. <u>AND</u> C.2 Determine RCS is acceptable for operation.	Immediately Prior to entering MODE 2 or 3

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.4.11.1 -----NOTE----- Only required to be performed during RCS heatup and cooldown operations, and RCS inservice leak and hydrostatic testing. ----- Verify: a. RCS pressure and RCS temperature are within the applicable limits specified in Figures 3.4.11-1, 3.4.11-2, and 3.4.11-3 3 3.4.11-4, and 3.4.11-5; b. RCS heatup and cooldown rates are $\leq 100^{\circ}\text{F}$ in any 1 hour period; and c. RCS temperature change during inservice leak and hydrostatic testing is $\leq 20^{\circ}\text{F}$ in any 1 hour period when the RCS pressure and RCS temperature are not within the limits of Figure 3.4.11- 3 ₃ or 3.4.11-4.	 30 minutes

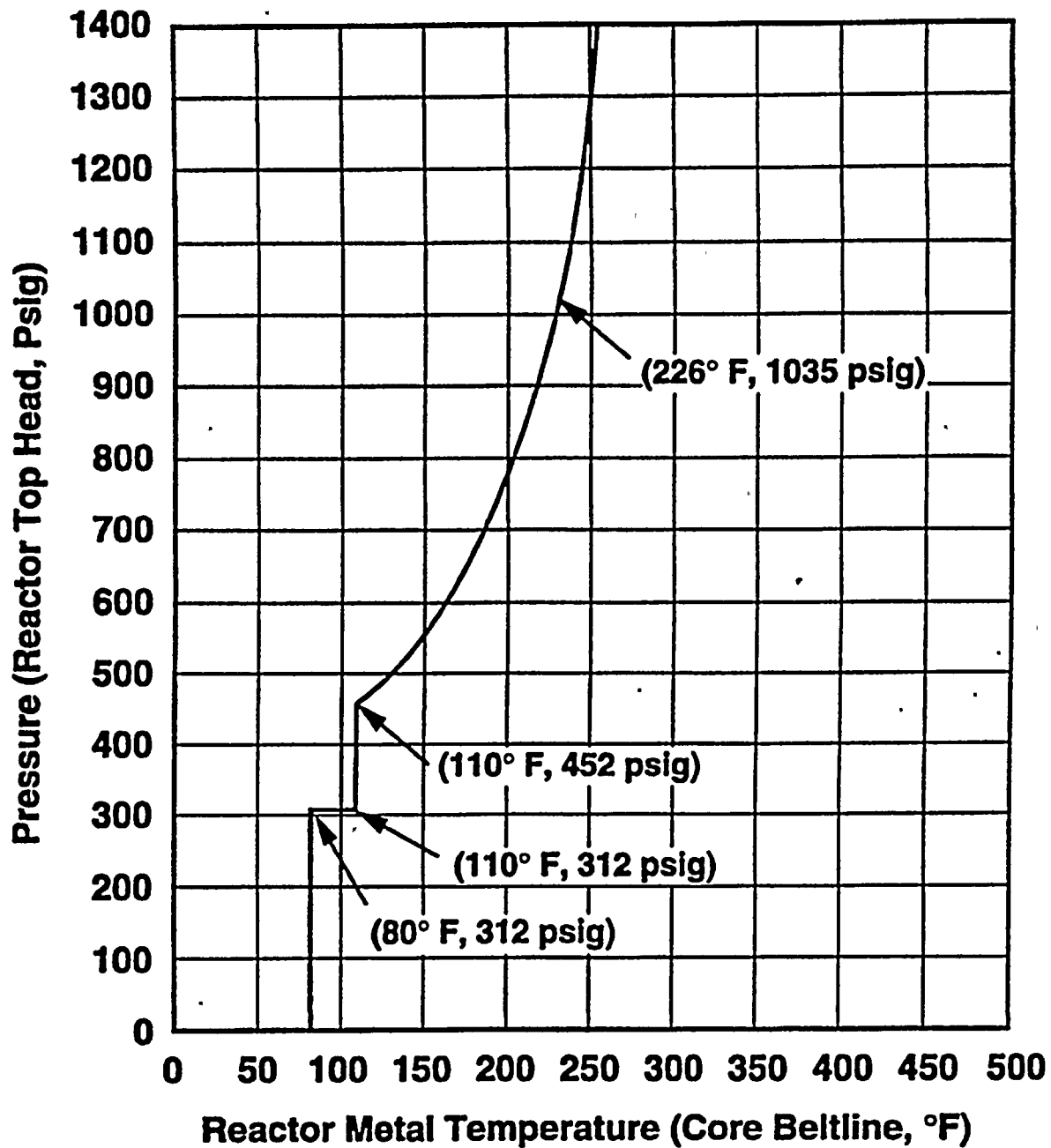
(continued)

Run
wick



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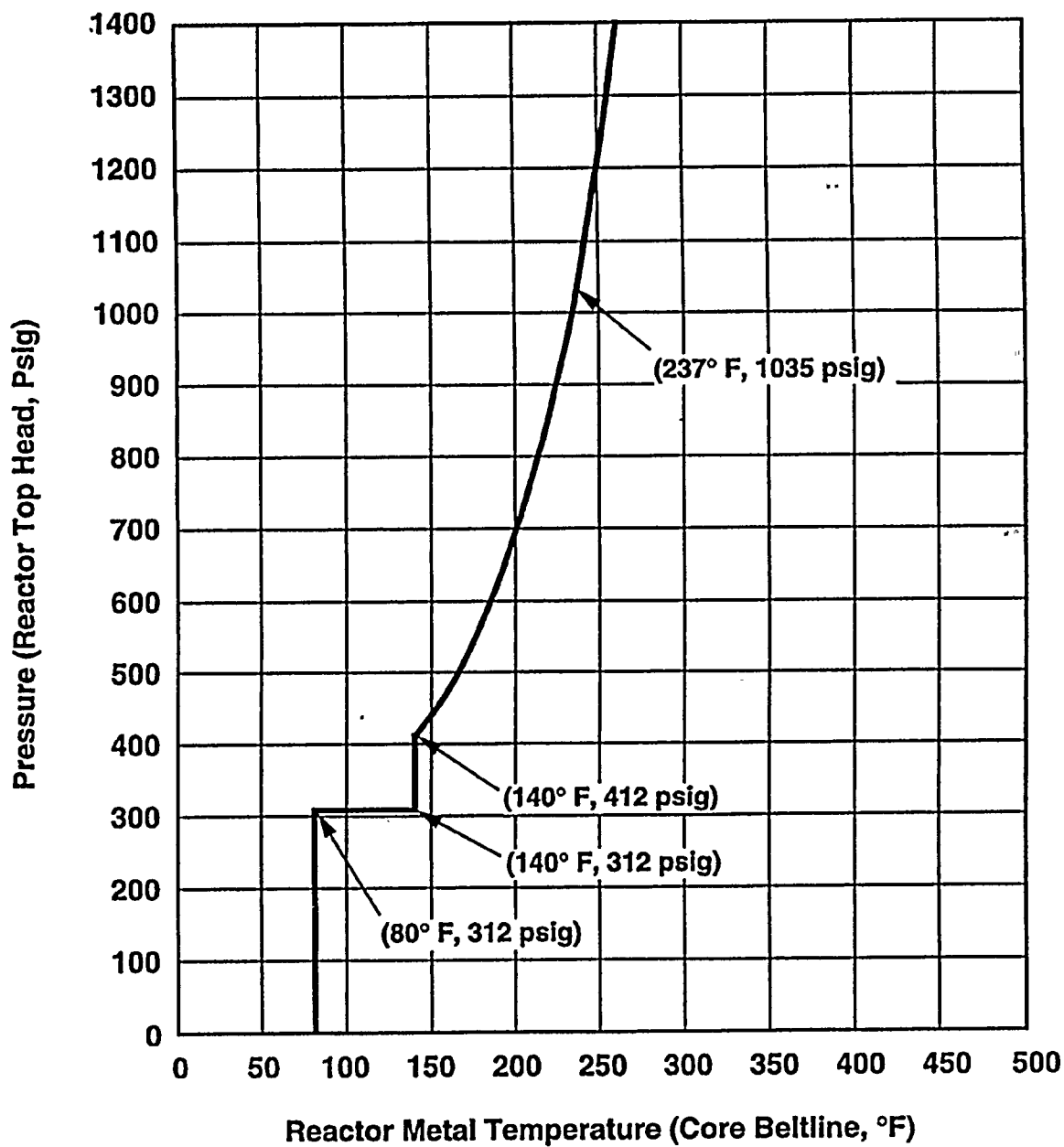
Figure 3.4.11-1~~X~~ (Page ~~1~~ of ~~1~~)
Inservice Leak and Hydrostatic Testing Curve
for 12EFY



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Nov 1996

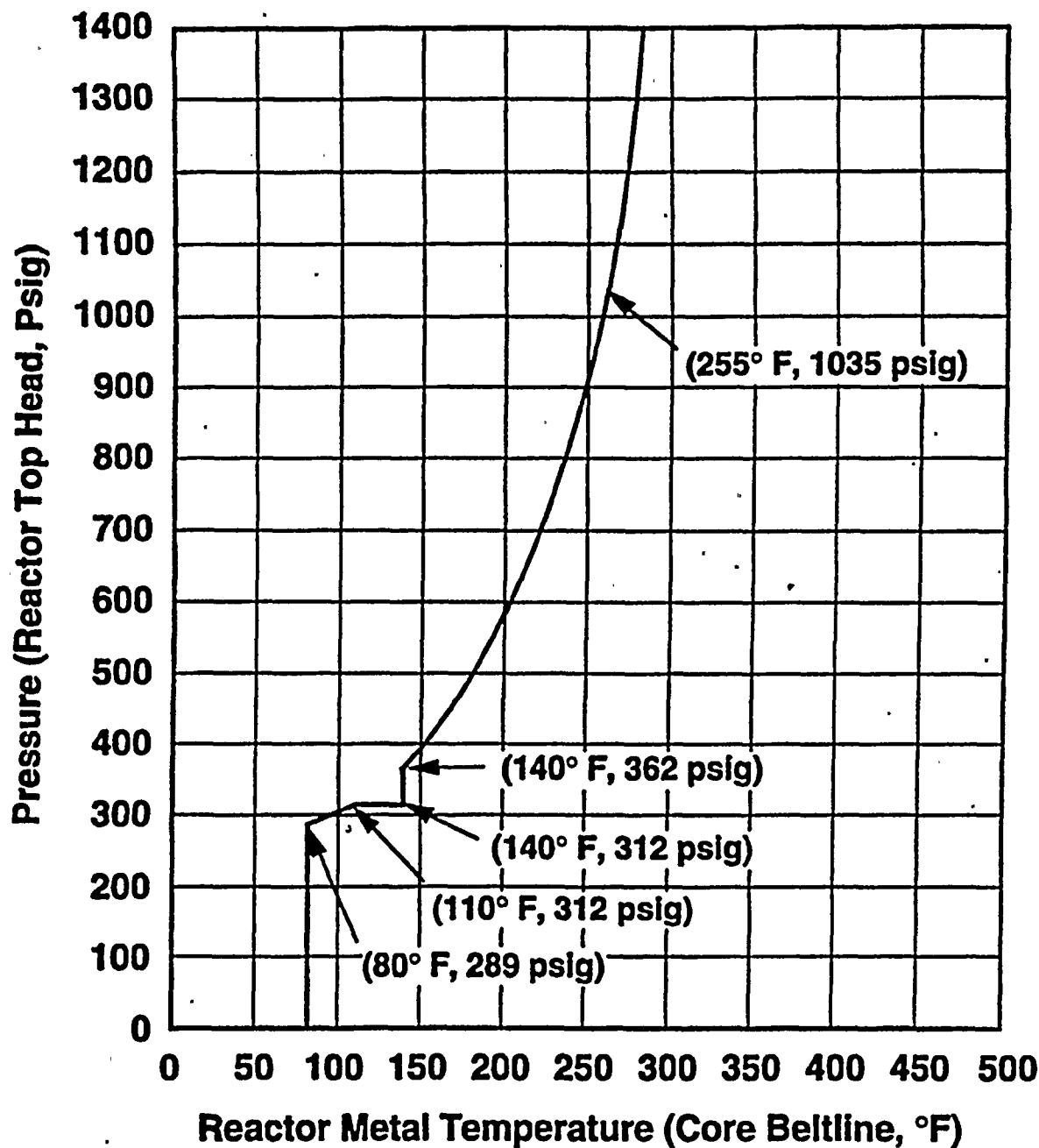
2
Figure 3.4.11-X (Page 1 of 1)
Inservice Leak and Hydrostatic Testing Curve
For 32 EFPY

Pen
wick



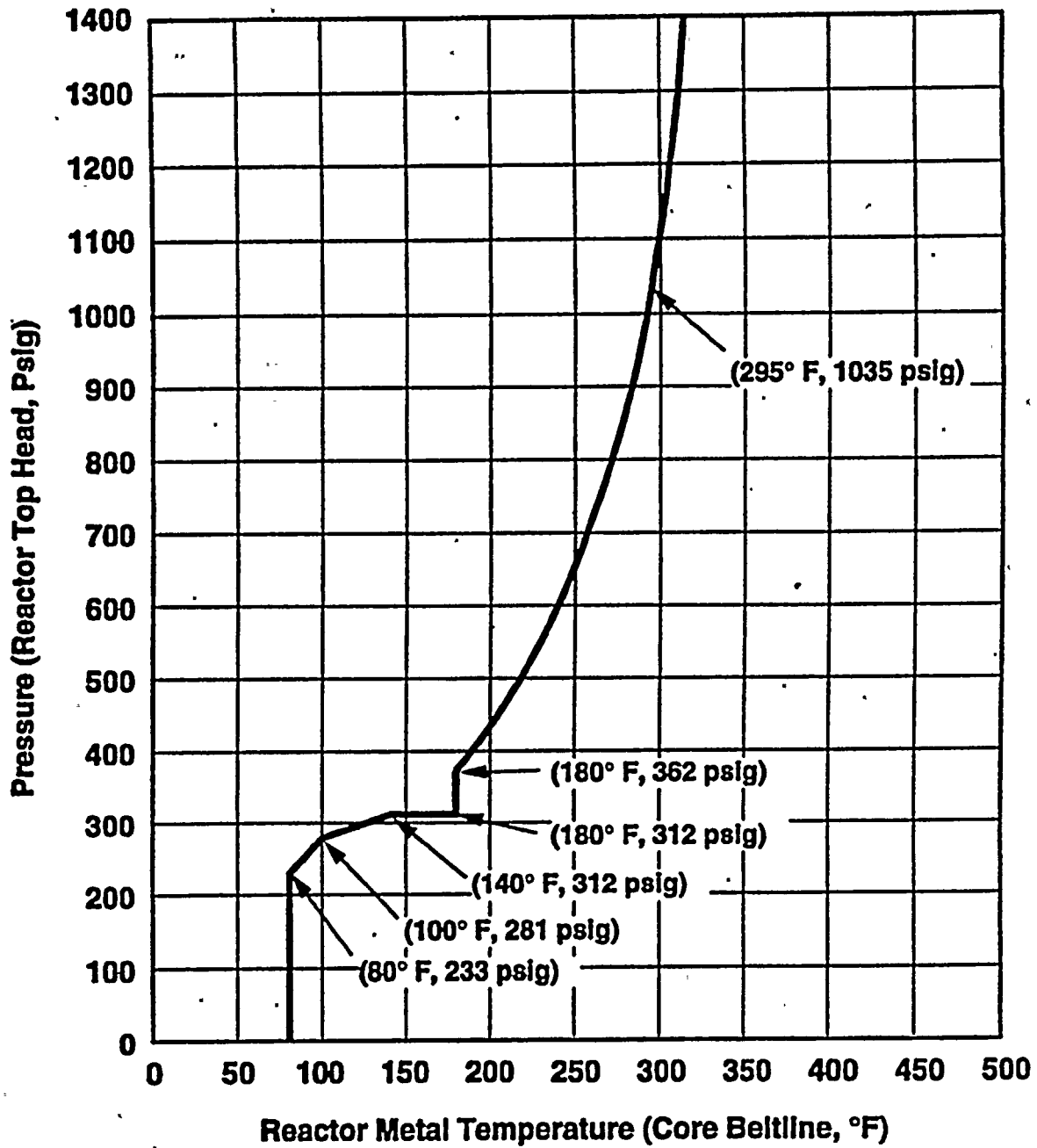
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Jan 1997

Figure 3.4.11-2³_a (Page ¹~~X~~ of ¹~~X~~)
Non-Nuclear Heating and Cooldown Curve
for 12 EFPY



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Non-Nuclear Heating and Cooldown Curve
For 32 EF 94



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5
Figure 3.4.11-3 (Page 1 of 1)
Nuclear Heating and Cooldown Curve

ATTACHMENT 2

Clean Version of the Technical Specification Pages

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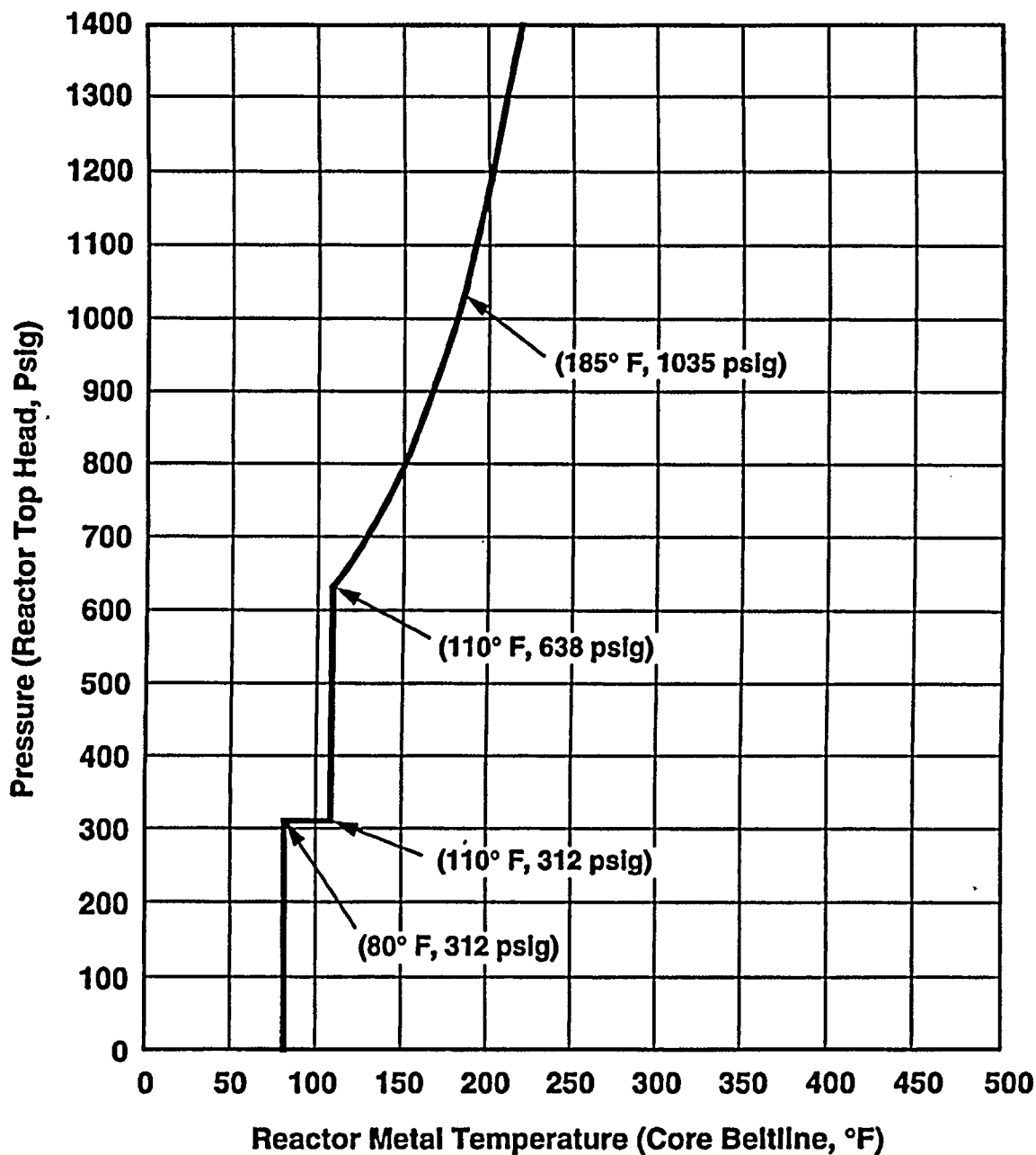
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(continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. -----NOTE----- Required Action C.2 shall be completed if this Condition is entered. -----	C.1 Initiate action to restore parameter(s) to within limits.	Immediately
	<u>AND</u>	
Requirements of the LCO not met in other than MODES 1, 2, and 3.	C.2 Determine RCS is acceptable for operation.	Prior to entering MODE 2 or 3

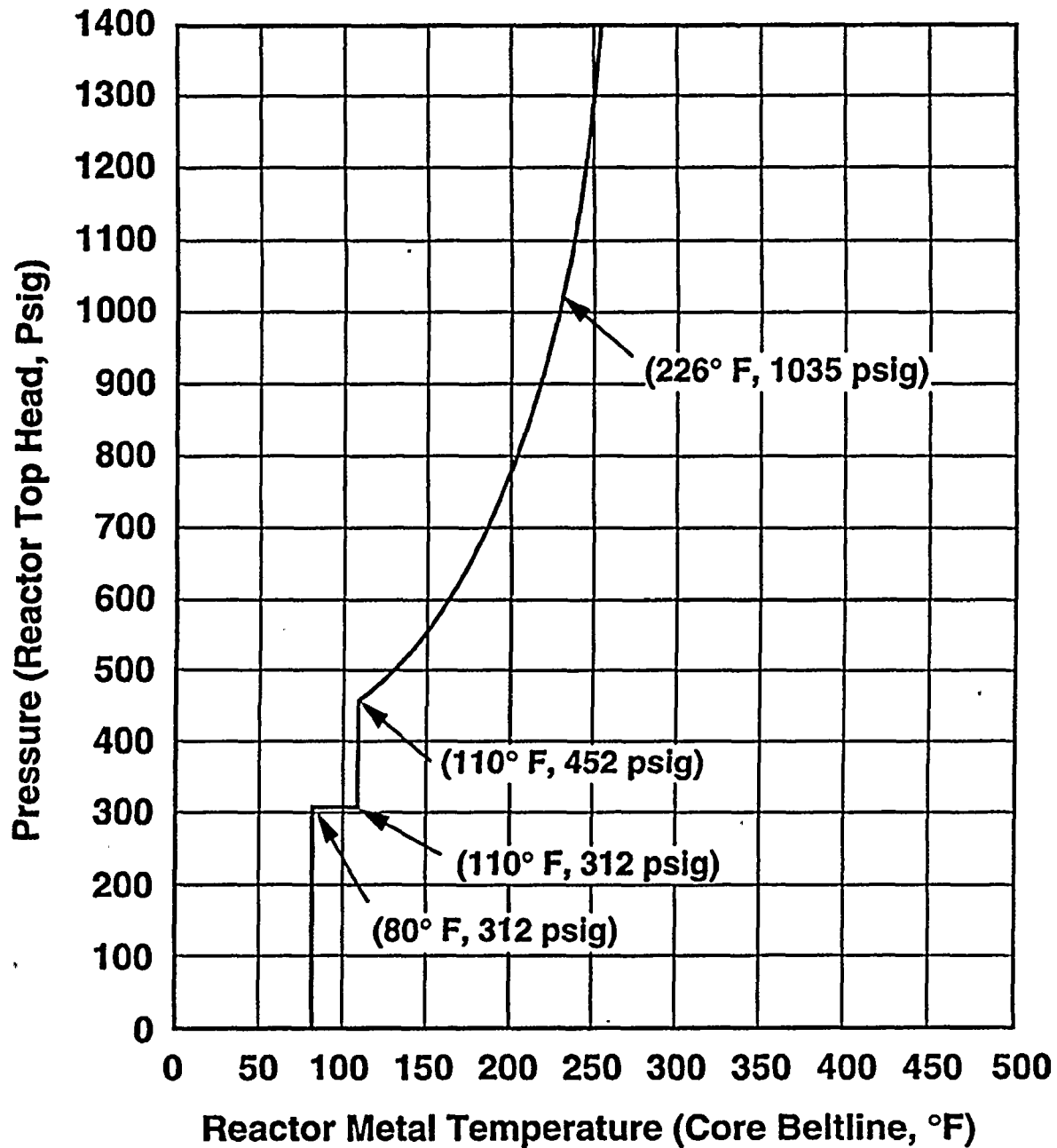
SURVEILLANCE	FREQUENCY
<p>SR 3.4.11.1 -----NOTE----- Only required to be performed during RCS heatup and cooldown operations, and RCS inservice leak and hydrostatic testing. -----</p> <p>Verify:</p> <ul style="list-style-type: none"> a. RCS pressure and RCS temperature are within the applicable limits specified in Figures 3.4.11-1, 3.4.11-2, 3.4.11-3, 3.4.11-4, and 3.4.11-5; b. RCS heatup and cooldown rates are $\leq 100^{\circ}\text{F}$ in any 1 hour period; and c. RCS temperature change during inservice leak and hydrostatic testing is $\leq 20^{\circ}\text{F}$ in any 1 hour period when the RCS pressure and RCS temperature are not within the limits of Figure 3.4.11-3 or 3.4.11-4. 	<p>30 minutes</p>

Amendment No.



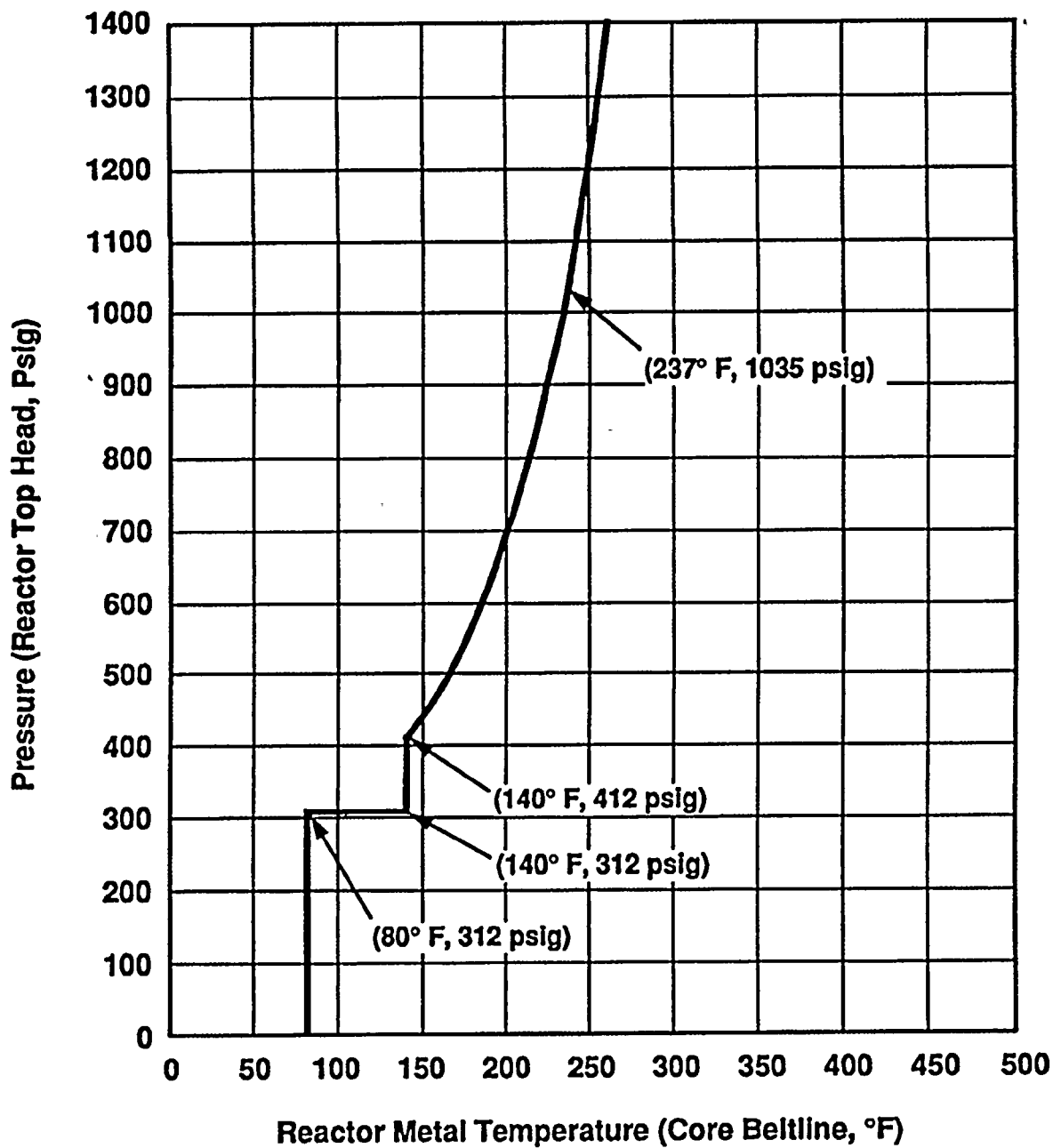
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Figure 3.4.11-1 (Page 1 of 1)
Inservice Leak and Hydrostatic Testing Curve for 12 EFY



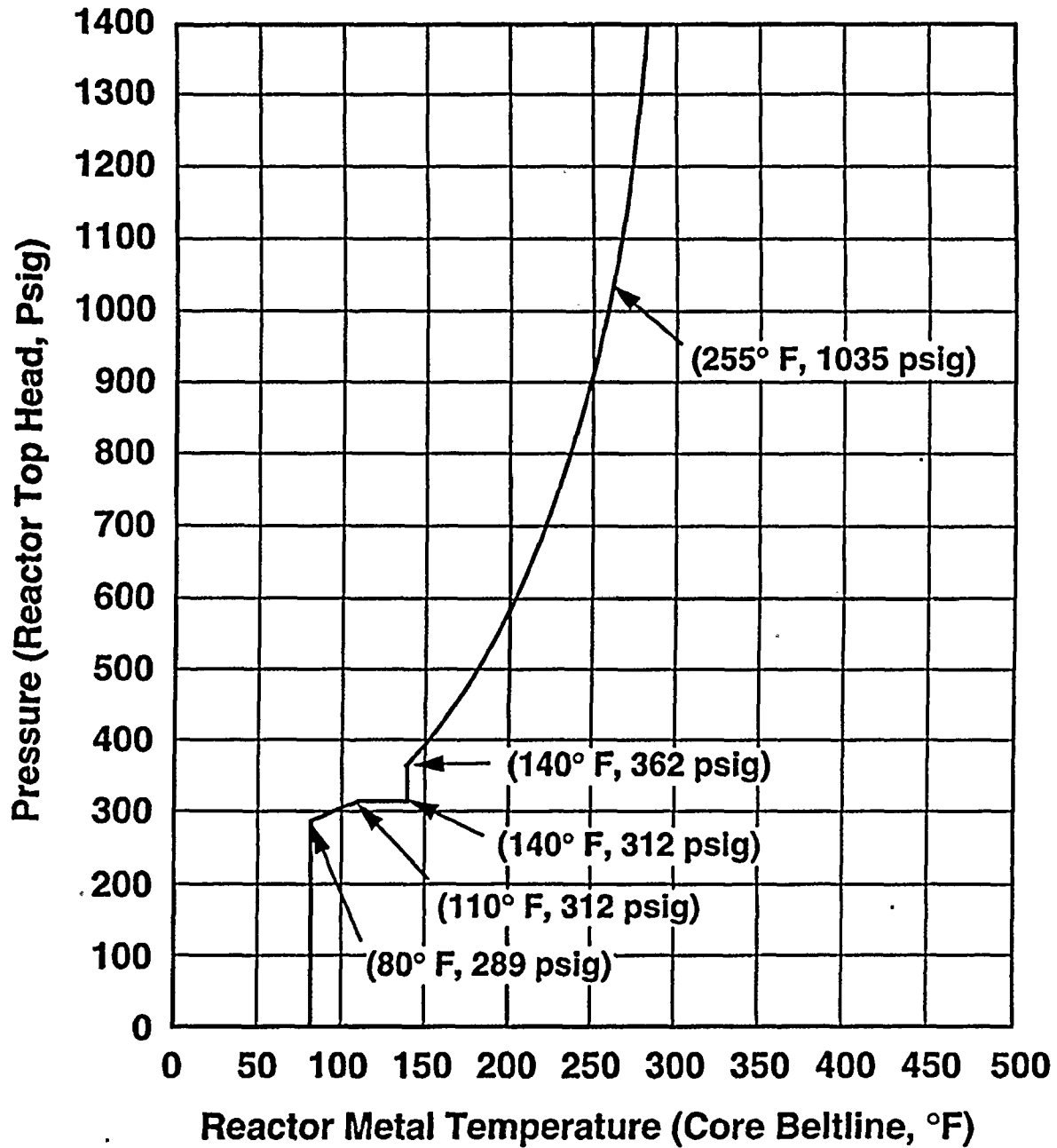
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Nov 1998

Figure 3.4.11-2 (Page 1 of 1)
Inservice Leak and Hydrostatic Testing Curve for 32 EFPY



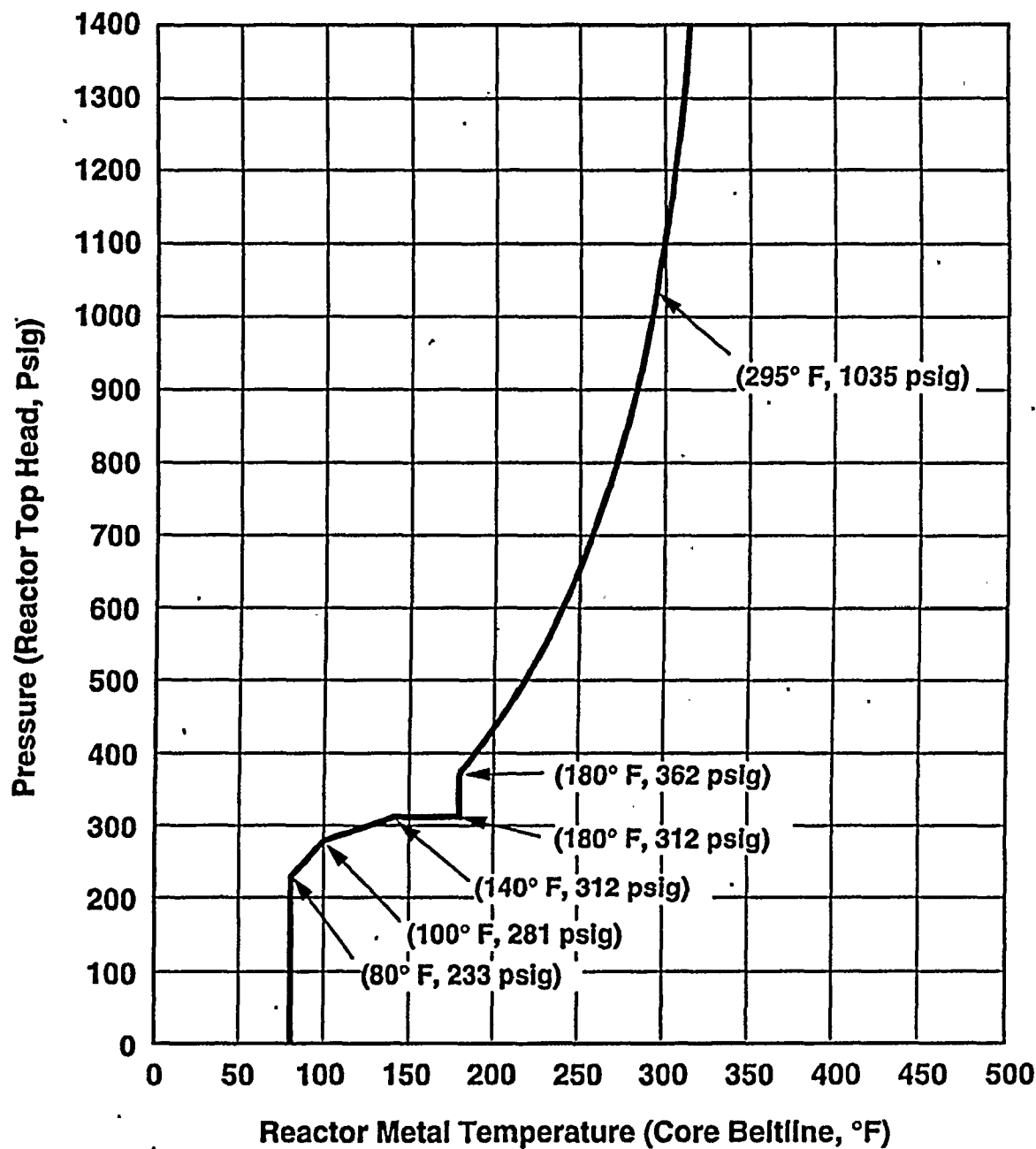
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Jan 1997

Figure 3.4.11-3 (Page 1 of 1)
Non-Nuclear Heating and Cooldown Curve for 12 EFY



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Figure 3.4-11-4 (Page 1 of 1)
Non-Nuclear Heating and Cooldown Curve for 32 EFPY



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Figure 3.4.11-5 (Page 1 of 1)
Nuclear Heating and Cooldown Curve

3.4 REACTOR COOLANT SYSTEM (RCS)

3.4.12 Reactor Steam Dome Pressure

LCO 3.4.12 The reactor steam dome pressure shall be ≤ 1035 psig.

APPLICABILITY: MODES 1 and 2.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Reactor steam dome pressure not within limit.	A.1 Restore reactor steam dome pressure to within limit.	15 minutes
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.4.12.1 Verify reactor steam dome pressure is ≤ 1035 psig.	12 hours

ATTACHMENT 3

Planned Technical Specification Bases Changes

BASES

APPLICABLE
SAFETY ANALYSES
(continued)

the curves and limits required by this Specification. Since the P/T limits are not derived from any DBA, there are no acceptance limits related to the P/T limits. Rather, the P/T limits are acceptance limits themselves since they preclude operation in an unanalyzed condition.

RCS P/T limits satisfy Criterion 2 of Reference 9.

LCO

The elements of this LCO are:

- a. RCS pressure and temperature are within the limits specified in Figures 3.4.11-1, 3.4.11-2, and 3.4.11-3 and heatup and cooldown rates are $\leq 100^\circ\text{F}$ in any 1 hour period during RCS heatup, cooldown, and inservice leak and hydrostatic testing, and the RCS temperature change during inservice leak and hydrostatic testing is $\leq 20^\circ\text{F}$ in any 1 hour period when the RCS pressure and RCS temperature are not within the limits of Figure 3.4.11-~~3~~ 3 or 3.4.11-4; 3.4.11-4 and
3.4.11-5
- b. The temperature difference between the reactor vessel bottom head coolant and the reactor pressure vessel (RPV) coolant is $\leq 145^\circ\text{F}$ during recirculation pump startup, and during increases in THERMAL POWER or loop flow while operating at low THERMAL POWER or loop flow;
- c. The temperature difference between the reactor coolant in the respective recirculation loop and in the reactor vessel is $\leq 50^\circ\text{F}$ during recirculation pump startup, and during increases in THERMAL POWER or loop flow while operating at low THERMAL POWER or loop flow;
- d. RCS pressure and temperature are within the limits specified in Figure 3.4.11-~~3~~ 5, prior to achieving criticality; and
- e. The reactor vessel flange and the head flange temperatures are $\geq 80^\circ\text{F}$ when tensioning the reactor vessel head bolting studs.

These limits define allowable operating regions and permit a large number of operating cycles while also providing a wide margin to nonductile failure.

(continued)

BASES

ACTIONS (continued)

C.1 and C.2

Operation outside the P/T limits in other than MODES 1, 2, and 3 (including defueled conditions) must be corrected so that the RCPB is returned to a condition that has been verified by LEFM analyses. The Required Action must be initiated without delay and continued until the limits are restored.

Besides restoring the P/T limit parameters to within limits, an evaluation is required to determine if RCS operation is allowed. This evaluation must verify that the RCPB integrity is acceptable and must be completed before approaching criticality or heating up to > 200°F. Several methods may be used, including comparison with pre-analyzed transients, new analyses, or inspection of the components. ASME Section XI, Appendix E (Ref. 6), may be used to support the evaluation; however, its use is restricted to evaluation of the beltline.

Condition C is modified by a Note requiring Required Action C.2 be completed whenever the Condition is entered. The Note emphasizes the need to perform the evaluation of the effects of the excursion outside the allowable limits. Restoration alone per Required Action C.1 is insufficient because higher than analyzed stresses may have occurred and may have affected the RCPB integrity.

SURVEILLANCE REQUIREMENTS

SR 3.4.11.1

Verification that operation is within limits is required every 30 minutes when RCS pressure and temperature conditions are undergoing planned changes. This Frequency is considered reasonable in view of the control room indication available to monitor RCS status. Also, since temperature rate of change limits are specified in hourly increments, 30 minutes permits assessment and correction of minor deviations. The limits of Figures 3.4.11-1, 3.4.11-2, and 3.4.11-3 are met when operation is to the right of the applicable limit curves.

→ 3.4.11-4, and 3.4.11-5

Surveillance for heatup, cooldown, or inservice leakage and hydrostatic testing may be discontinued when the criteria given in the relevant plant procedure for ending the activity are satisfied.

(continued)