

Duke Power Company
Oconee Nuclear Station

Proposed Technical Specification Revision

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3.1.2 Pressurization, Heatup, and Cooldown Limitation

Specification

- 3.1.2.1 The reactor coolant pressure and the system heatup and cooldown rates (with the exception of the pressurizer) shall be limited as follows:

Heatup:

Heatup rates and allowable combinations of pressure and temperature shall be limited in accordance with Table 3.1-1 and Figure

- 3.1.2-1A Unit 1
- 3.1.2-1B Unit 2
- 3.1.2-1C Unit 3

Cooldown:

Cooldown rates and allowable combinations of pressure and temperature shall be limited in accordance with Table 3.1-2 and Figure

- 3.1.2-2A Unit 1
- 3.1.2-2B Unit 2
- 3.1.2-2C Unit 3

- 3.1.2.2 Leak tests required by Specification 4.3 and ASME Section XI shall be limited to the heatup and cooldown rates and allowable combinations of pressure and temperature provided in Tables 3.1-1, 3.1-2 and Figure 3.1.2-3A Unit 1

- 3.1.2-3B Unit 2
- 3.1.2-3C Unit 3

- 3.1.2.3 For thermal steady state system hydro tests required by ASME Section XI the system may be pressurized to the limits set forth in Specification 2.2 and 3.1.2.2.

- 3.1.2.4 The secondary side of the steam generator shall not be pressurized above 237 psig if the temperature of the vessel shell is below 110°F.

- 3.1.2.5 The pressurizer heatup and cooldown rates shall not exceed 100°F/hr. The spray shall not be used if the temperature difference between the pressurizer and the spray fluid is greater than 410°F.

TABLE 3.1-1

OPERATIONAL GUIDANCE FOR PLANT HEATUP

I. RC Temperature Constraints

RC Temperature	Maximum Heatup Rate
T < 280°F	50°F/HR
T > 280°F	100°F/HR

II. RC Pump Constraints

None

TABLE 3.1-2

OPERATIONAL GUIDANCE FOR PLANT COOLDOWN

I. RC Temperature Constraints

RC Temperature ⁽¹⁾	Maximum Cooldown Rate ⁽²⁾
T > 280°F	≤ 50°F in any ½ hour period
150°F < T < 280°F	≤ 25°F in any ½ hour period
T < 150°F	≤ 10°F in any 1 hour period
RCS depressurized ⁽³⁾	≤ 50°F in any 1 hour period

(1) RC temperature is cold leg temperature if one or more RC pumps are in operation or if on natural circulation cooldown; otherwise it is the LPI cooler outlet temperature.

(2) These rate limits must be applied to the change in temperature indication from cold leg temperature to LPI cooler outlet temperature per Note (1).

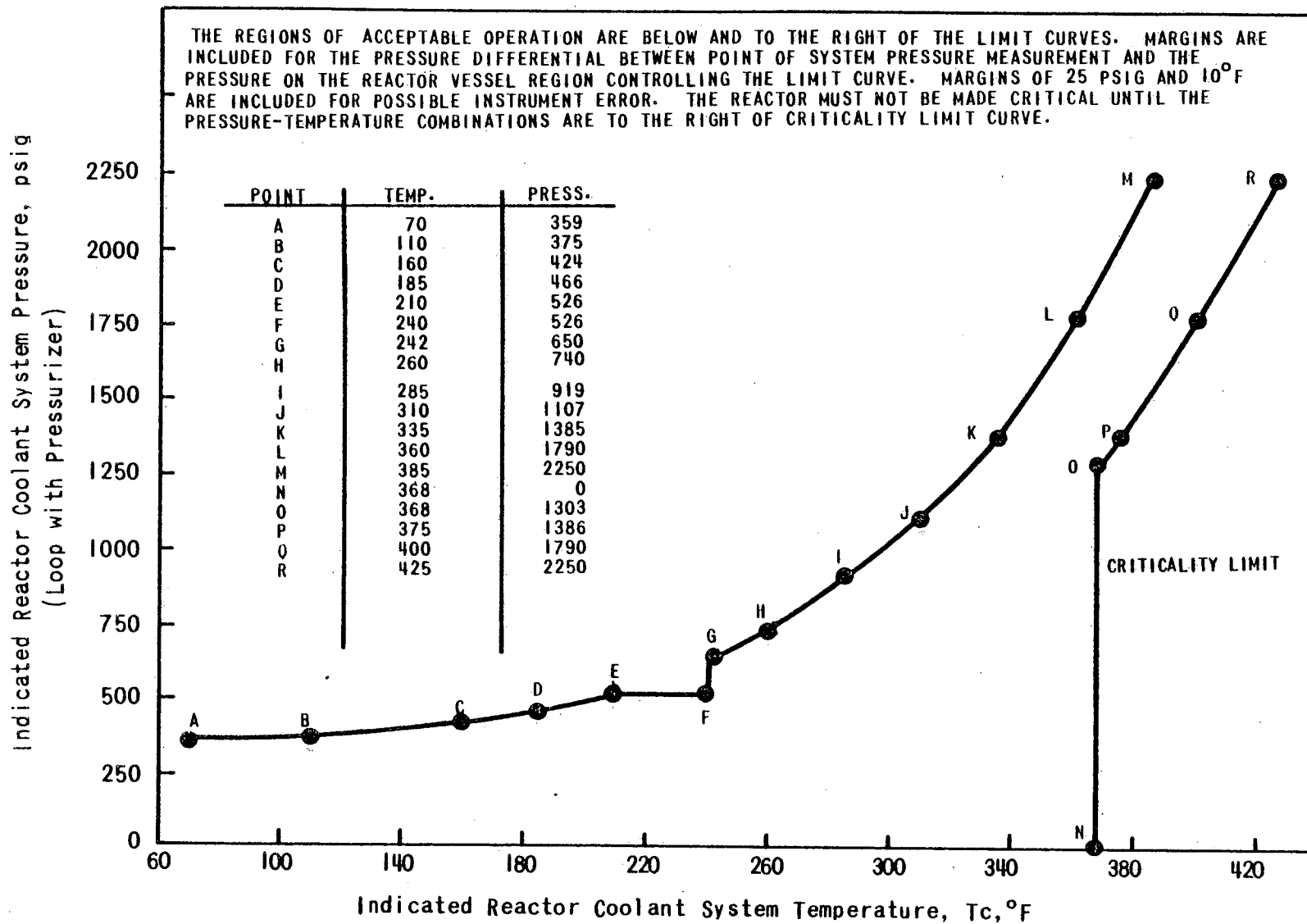
(3) When the RCS is depressurized such that all three of the following conditions exist:

- a) RCS temperature < 200°F,
- b) RCS pressure < 50 psig,
- c) All RC Pumps off,

the maximum cooldown rate shall be relaxed to ≤ 50°F in any 1 hour period.

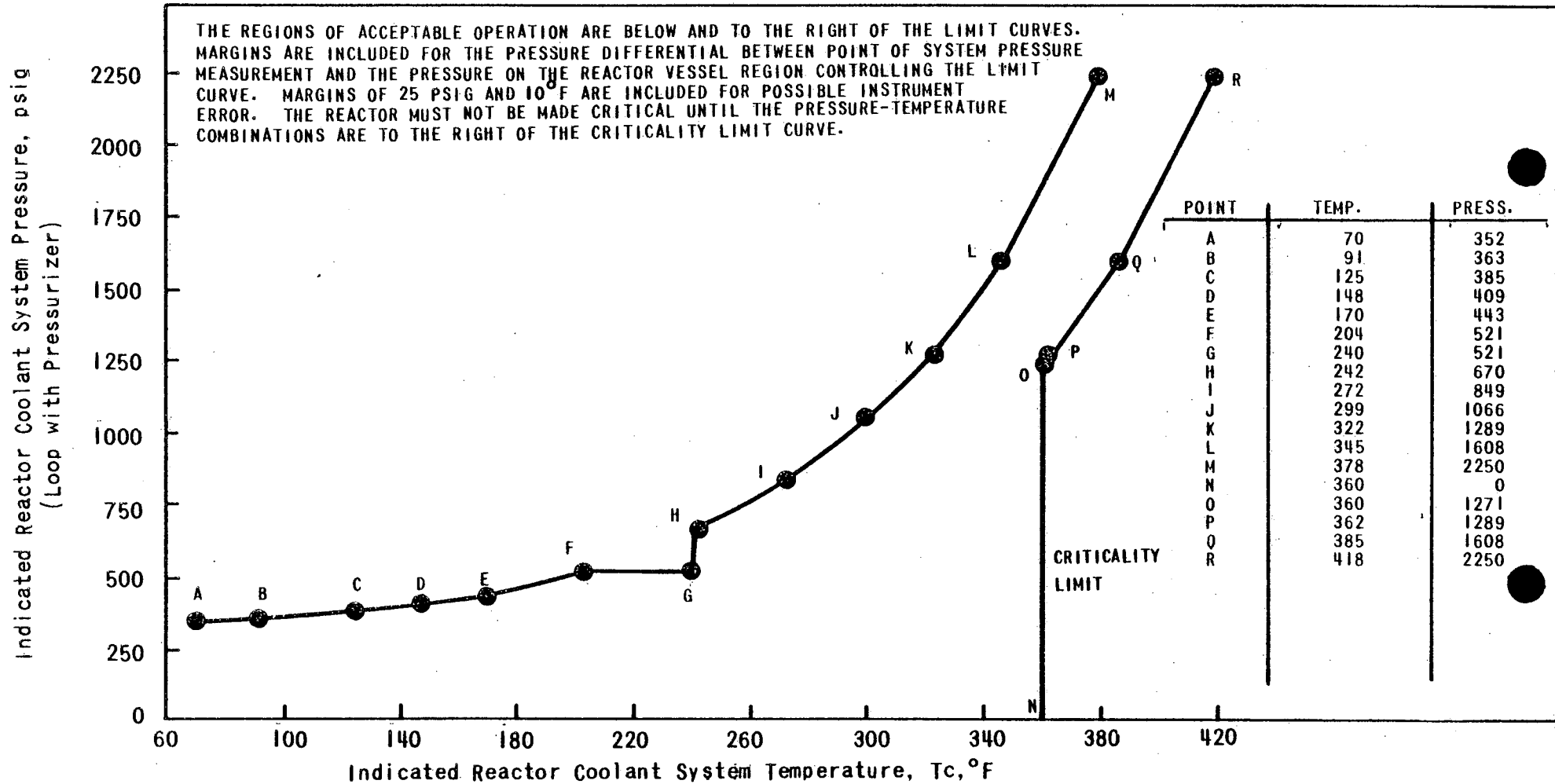
II. RC Pump Constraints For Validity of Guidance

RC Temperature	Allowed Pump Combinations
> 270°F	Any
270-200°F	No more than 1 pump per loop
< 200°F	No more than 1 pump



UNIT 1 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-HEATUP
 LIMITATIONS APPLICABLE FOR THE FIRST 15 EFY

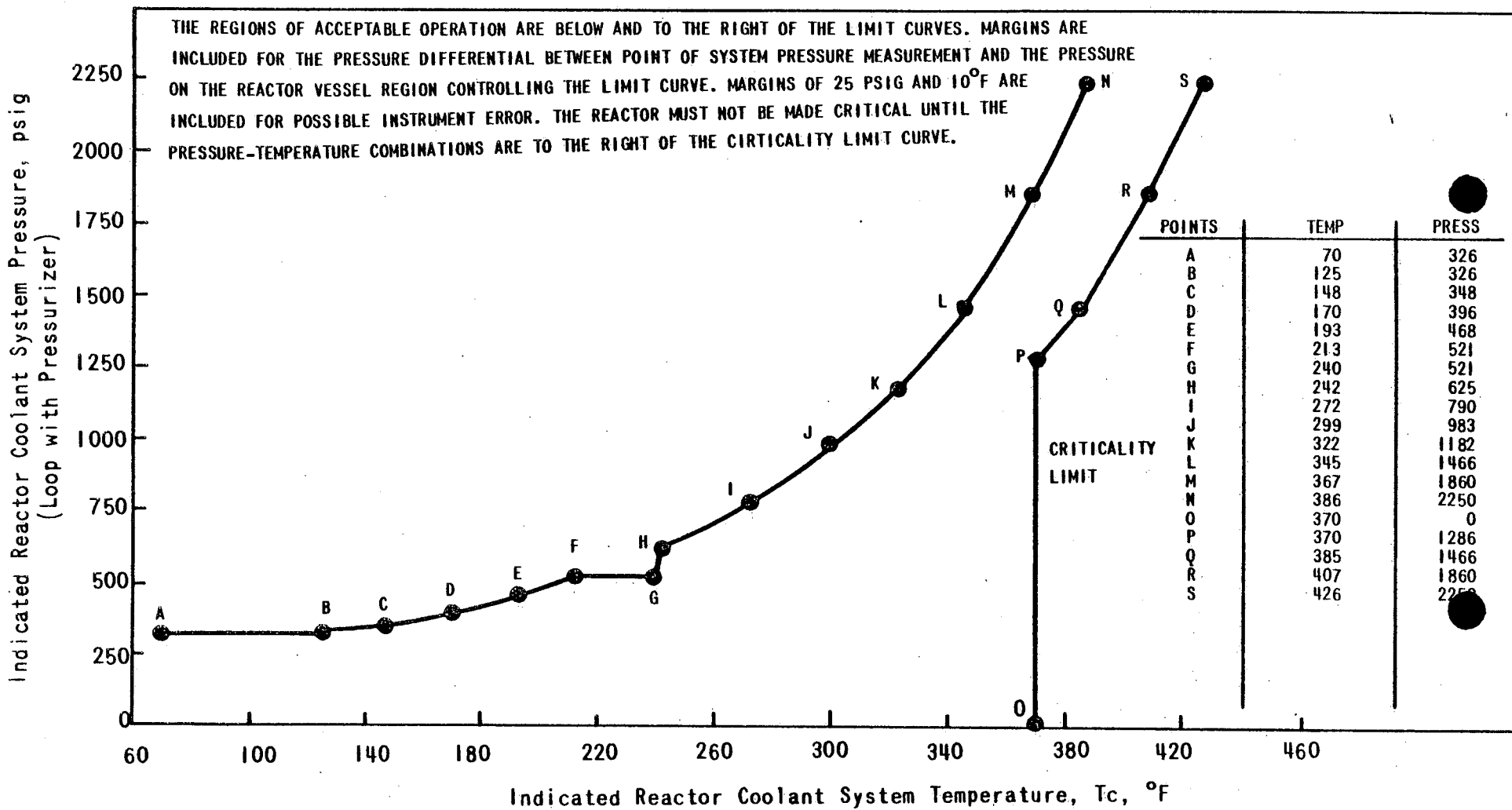
3.1-6a



UNIT 2 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-
 HEATUP LIMITATIONS APPLICABLE FOR FIRST 15.0 EPY

Figure 3.1.2-1B

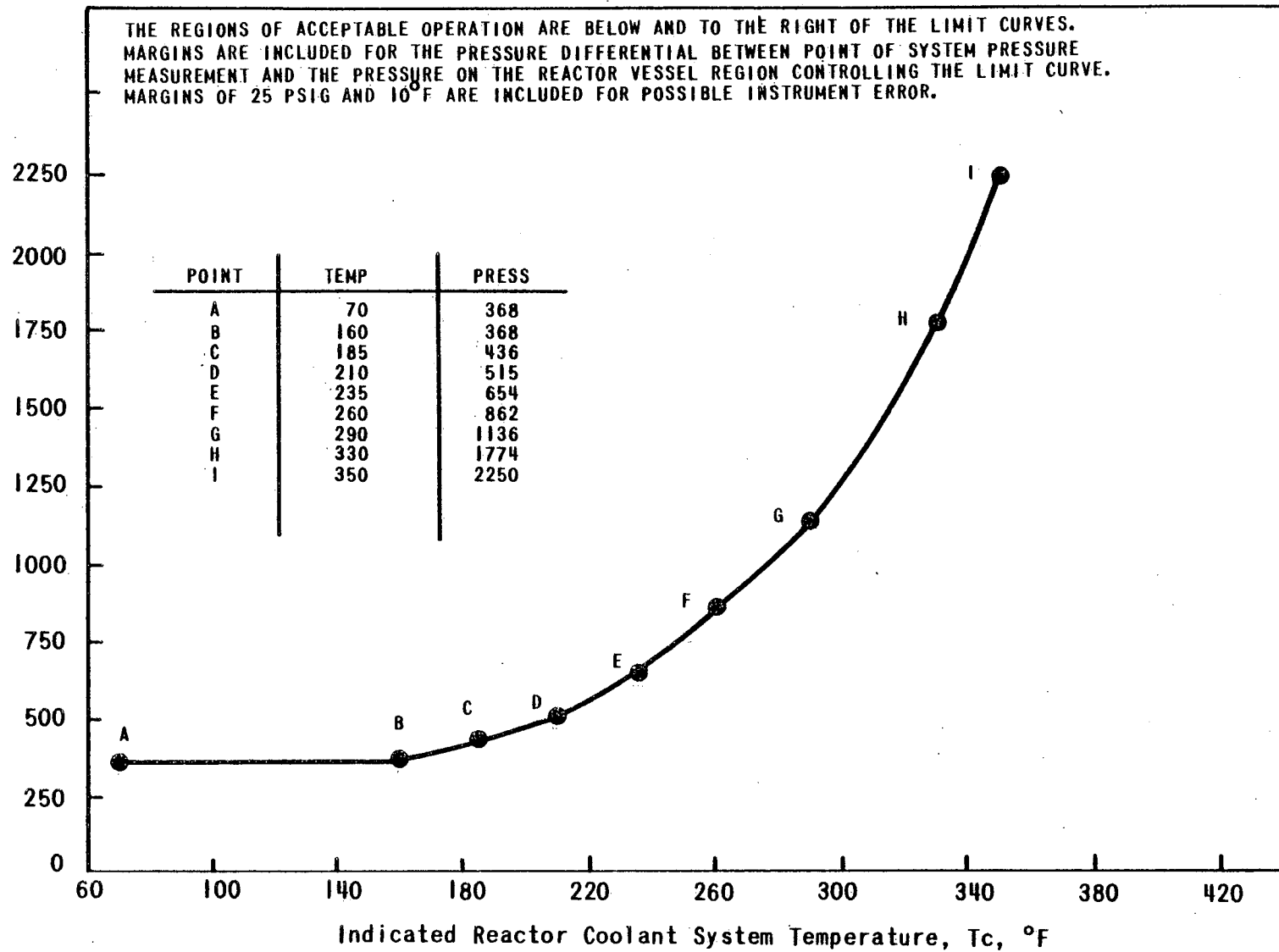
3.1-6b



UNIT 3 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-HEATUP
 LIMITATIONS APPLICABLE FOR FIRST 15.0 EFY.

Figure 3.1.2-1C

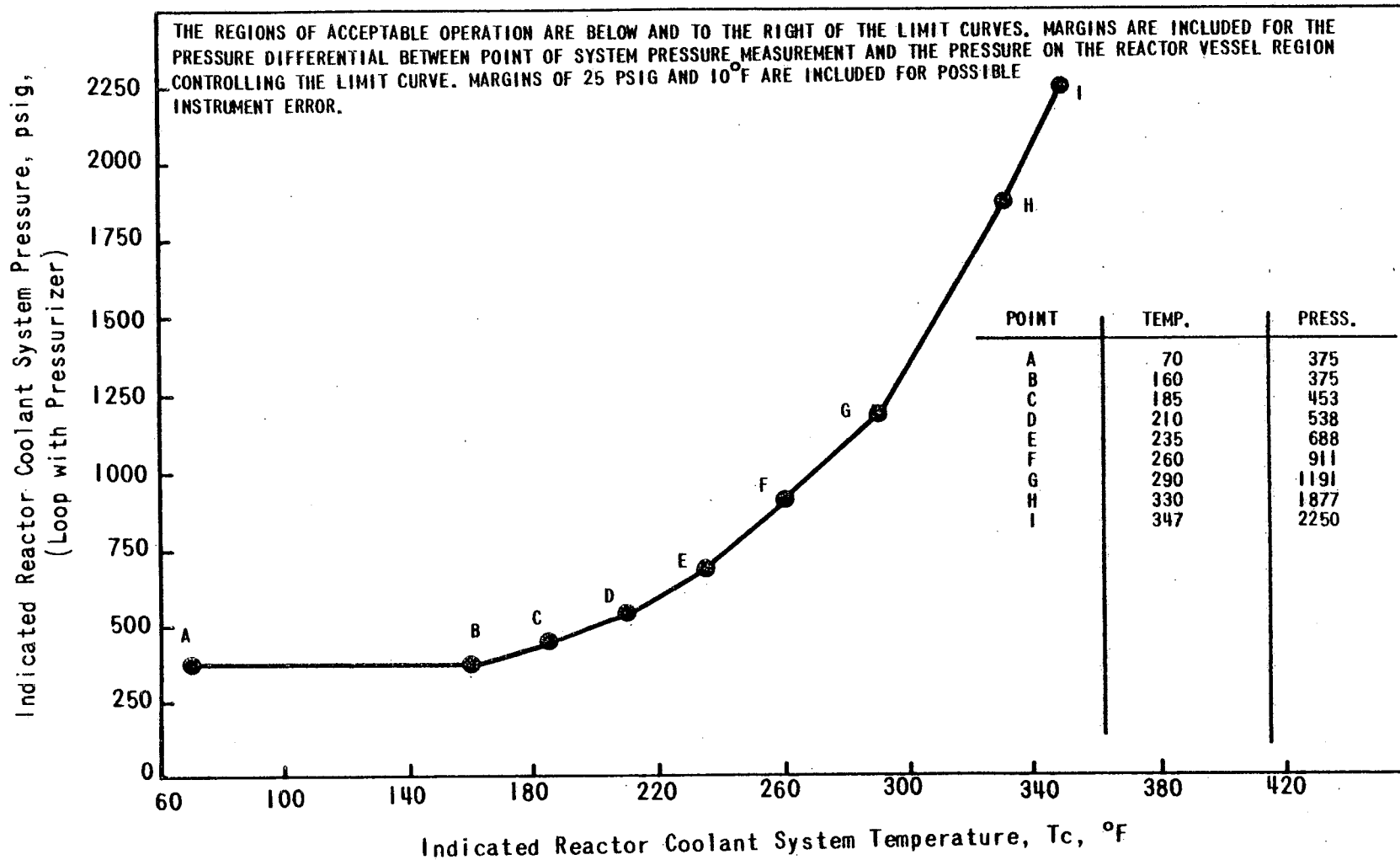
Indicated Reactor Coolant System Pressure, psig
(Loop with Pressurizer)



UNIT 1 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-
 COOLDOWN LIMITATIONS APPLICABLE FOR
 FIRST 15 EFPY

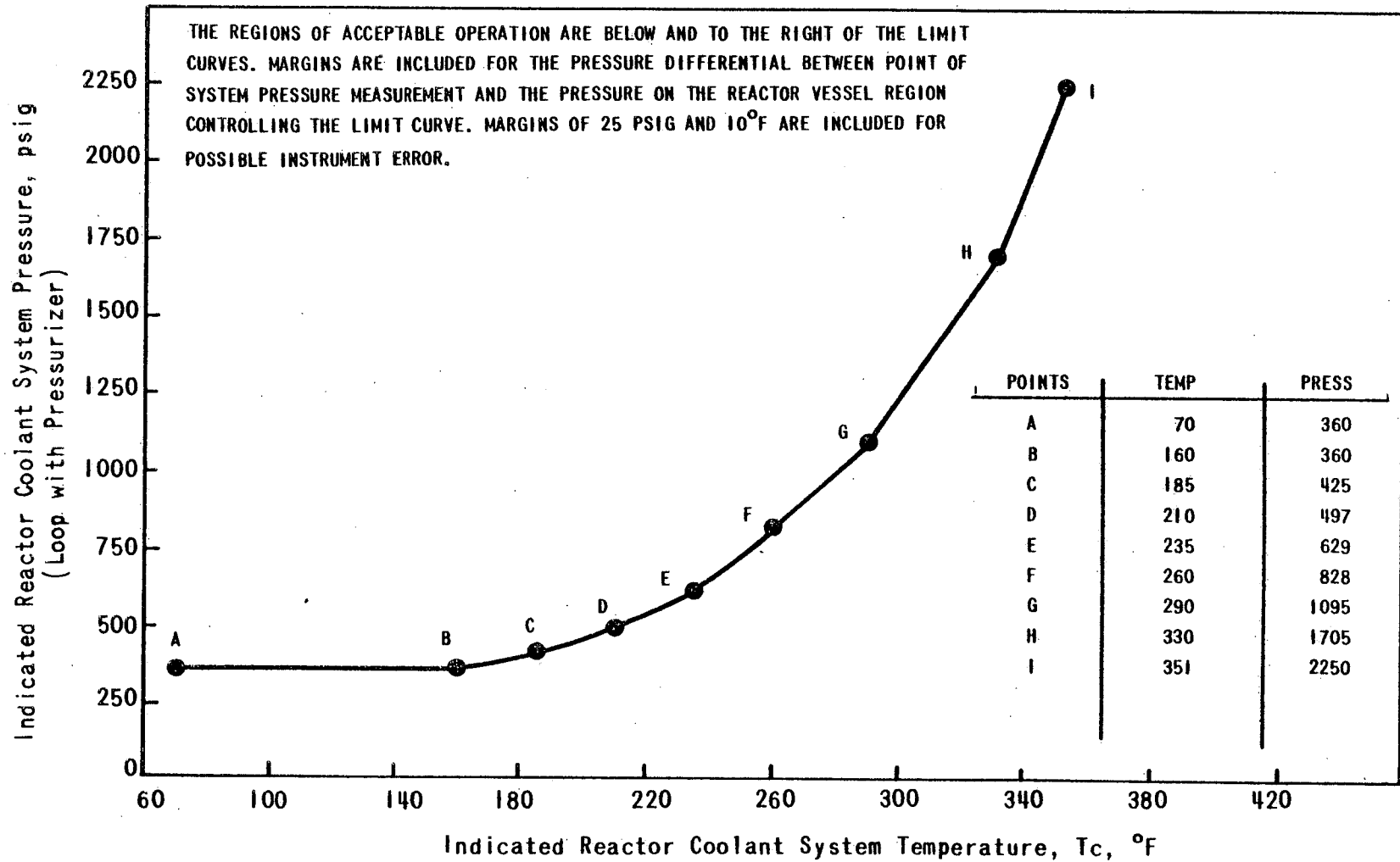
Figure 3.1.2-2A

3.1-7a



UNIT 2 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-COOLDOWN
 LIMITATIONS APPLICABLE FOR FIRST 15.0 EFY

Figure 3.1.2-2B



UNIT 3 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM NORMAL OPERATION-COOLDOWN
 LIMITATIONS APPLICABLE FOR FIRST 15.0 EFY

Figure 3.1.2-2C

3.1-7c

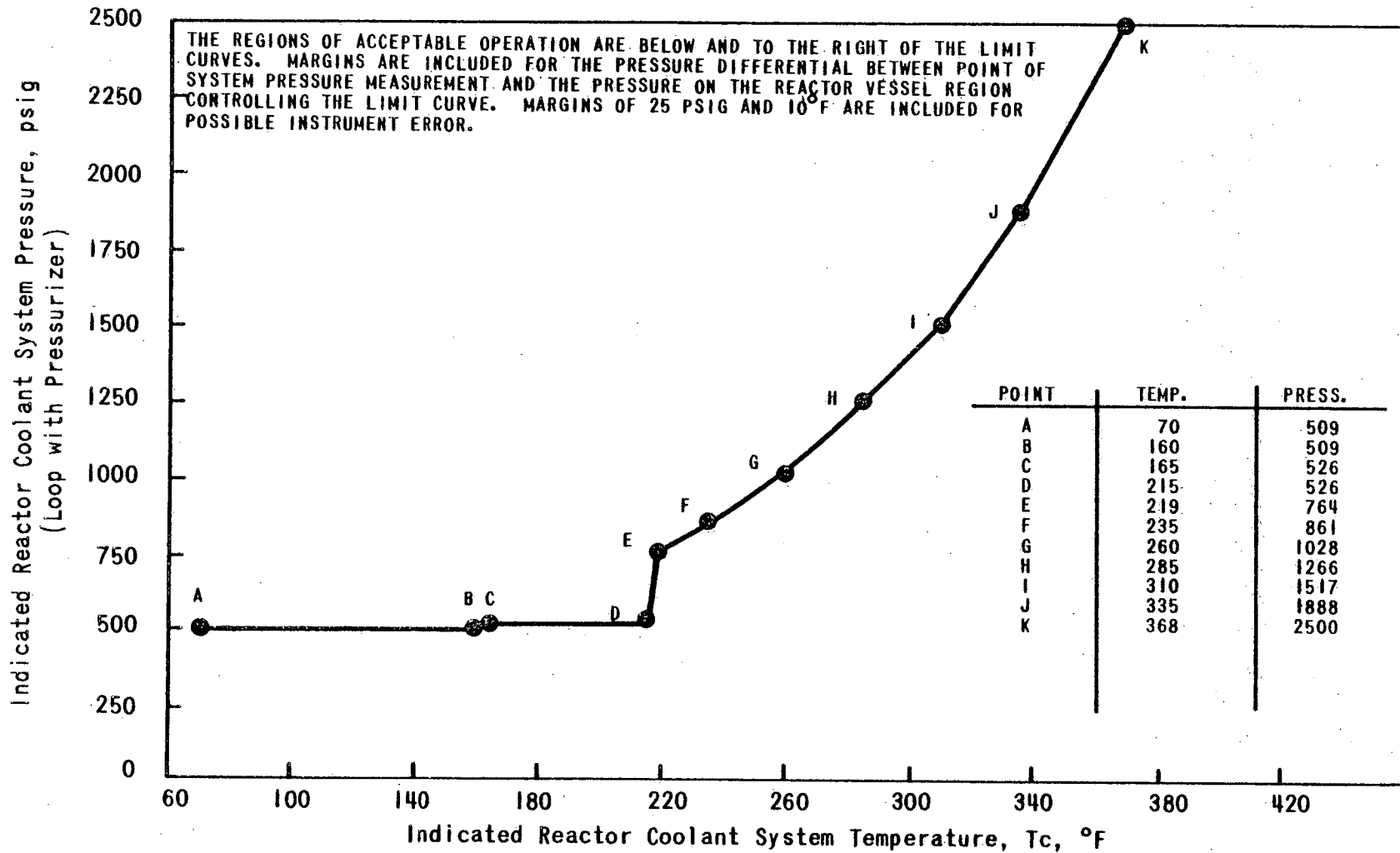
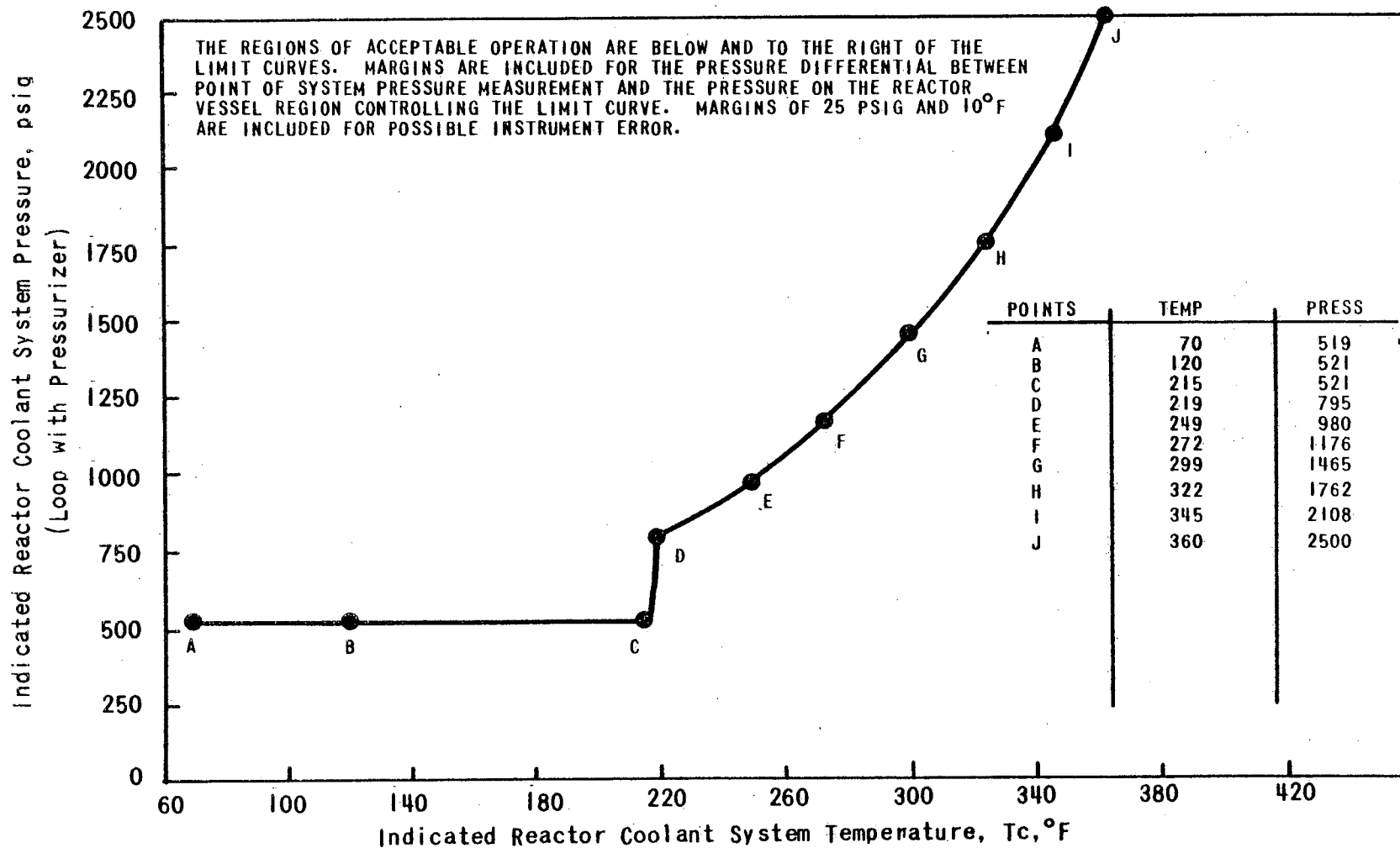


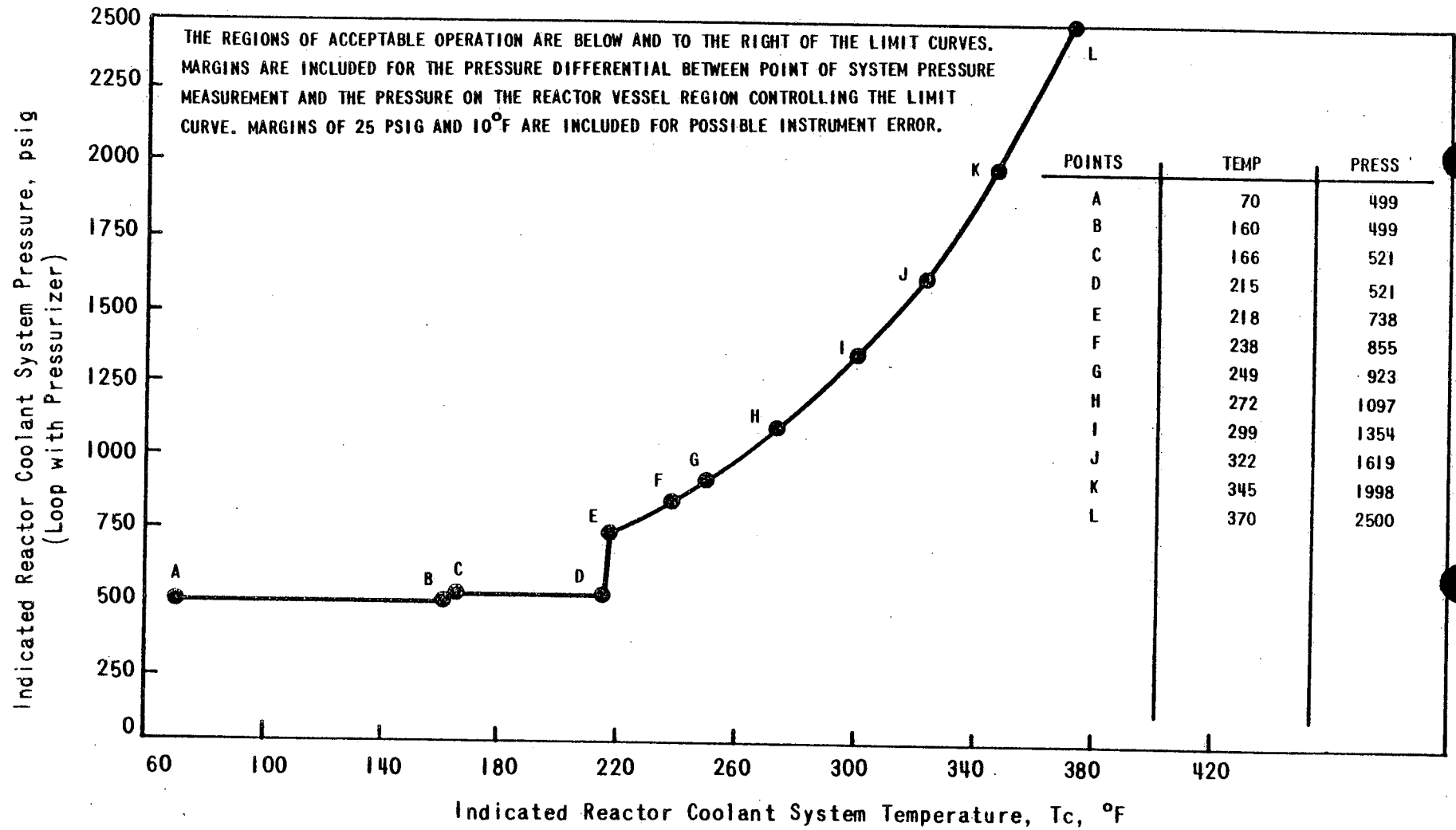
Figure 3.1.2-3A

UNIT 1 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM INSERVICE LEAK AND
 HYDROSTATIC TEST HEATUP AND COOLDOWN LIMITATION
 APPLICABLE FOR FIRST 15.0 EFYP



UNIT 2 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM INSERVICE LEAK AND
 HYDROSTATIC TEST HEATUP AND COOLDOWN
 LIMITATIONS APPLICABLE FOR 15.0 EFY

Figure 3.1.2-3B



UNIT 3 OCONEE NUCLEAR STATION
 REACTOR COOLANT SYSTEM INSERVICE LEAK AND
 HYDROSTATIC TEST HEATUP & COOLDOWN LIMITATIONS FOR FIRST
 15.0 EFPY

Figure 3.1.2-3C