Attachment I

Revision 1 To Proposed
Technical Specifications Changes
Related To Low Temperature
Overpressure Protection System

New York Power Authority
Indian Point 3 Nuclear Power Plant
Docket No. 50-286

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e. When the reactor is critical and above 2% rated power, except for natural circulation tests, at least two reactor coolant pumps shall be in operation.

f. The reactor shall not be operated at power levels above 10% rated power with less than four (4) reactor coolant loops in operation.

g. If the requirements of 3.1.A.1.e and 3.1.A.1.f above cannot be satisfied, the reactor shall be brought to the hot shutdown condition within 1 hour.

h. A reactor coolant pump (RCP) may not be started (or jogged) when the RCS cold leg temperature (T_{cold}) is at or below 326°F, with no other RCP's operating, unless RCS make up is not in excess of RCS losses, and one of the following requirements is met:

(1) The OPS is operable, steam generator pressure is not decreasing, and the temperature of each steam generator is less than or equal to the coldest T_{cold};

Or

(2) The OPS is operable, the temperature of the hottest steam generator exceeds the coldest T_{cold} by no more than 64°F, pressurizer level is at or below 75 percent, and T_{cold} is as per Figure 3.1.A-1;

Or

(3) The OPS is inoperable, steam generator pressure is not decreasing, the temperature of each steam generator is less than or equal to the coldest T_{cold}, pressurizer level is at or below 75 percent, and the RCS pressure does not exceed that given by Curve I on Fig. 3.1.A-2;

Or

(4) The OPS is inoperable, the temperature of the hottest steam generator exceeds the coldest T_{cold} by no more than 64°F, and pressurizer level and RCS pressure do not exceed the boundaries given on Fig. 3.1.A-4.

i. Additional pumps may not be started (or jogged) unless the OPS is operable and the pressurizer level is not increasing.

(1) Specification 3.1.A.1.i above may be modified to allow the OPS inoperable, providing the temperature of each steam generator has remained less than or equal to the coldest T_{cold} since the first RCP start, pressurizer level is at or below 75 percent, and the RCS pressure does not exceed that given by Curve I on Fig. 3.1.A-2.

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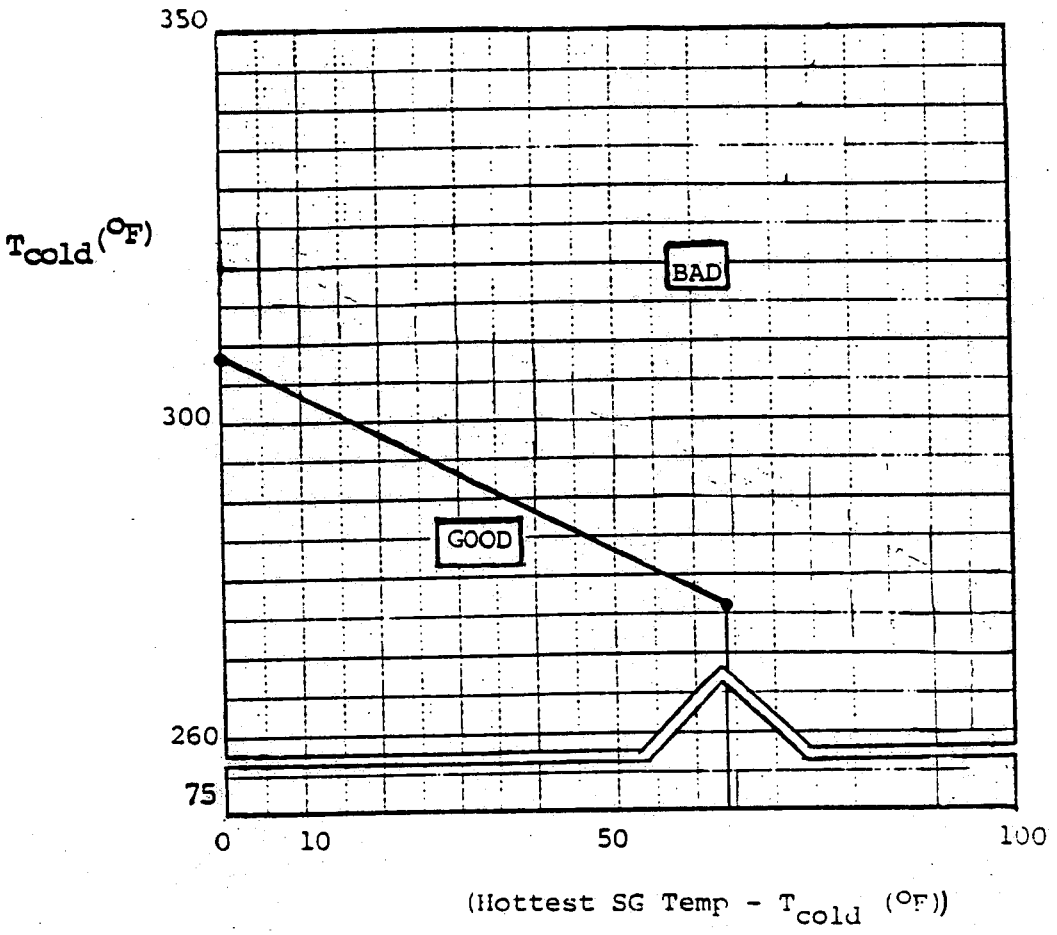
(2) Specification 3.1.A.1.i above may be further modified to allow the OPS inoperable and the temperature of the hottest steam generator to be no greater than 64°F higher than the coldest T_{cold}, provided that pressurizer level is at or below 75 percent and RCS pressure does not exceed that given by Curve II on Fig. 3.1.A-2.

j. Following the start of one or more RCP's and prior to reaching 326°F, the RCS pressure shall not exceed that given by Curves I and II on Fig. 3.1.A-3 as appropriate.

FIGURE 3.1.A-1

Maximum Permissible T_{cold} for First RCP Start

- OPS Operable
- Hottest SG Temperature > T_{cold}



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ure 3.1.A-2 Maximum Permissible RCS Pressure for RCP Start with OPS Inoperable

Notes: No allowance for instrument error beyond 10°F and 30 psi in Appendix - G curve
Figure applicable to 9.26 EFPY

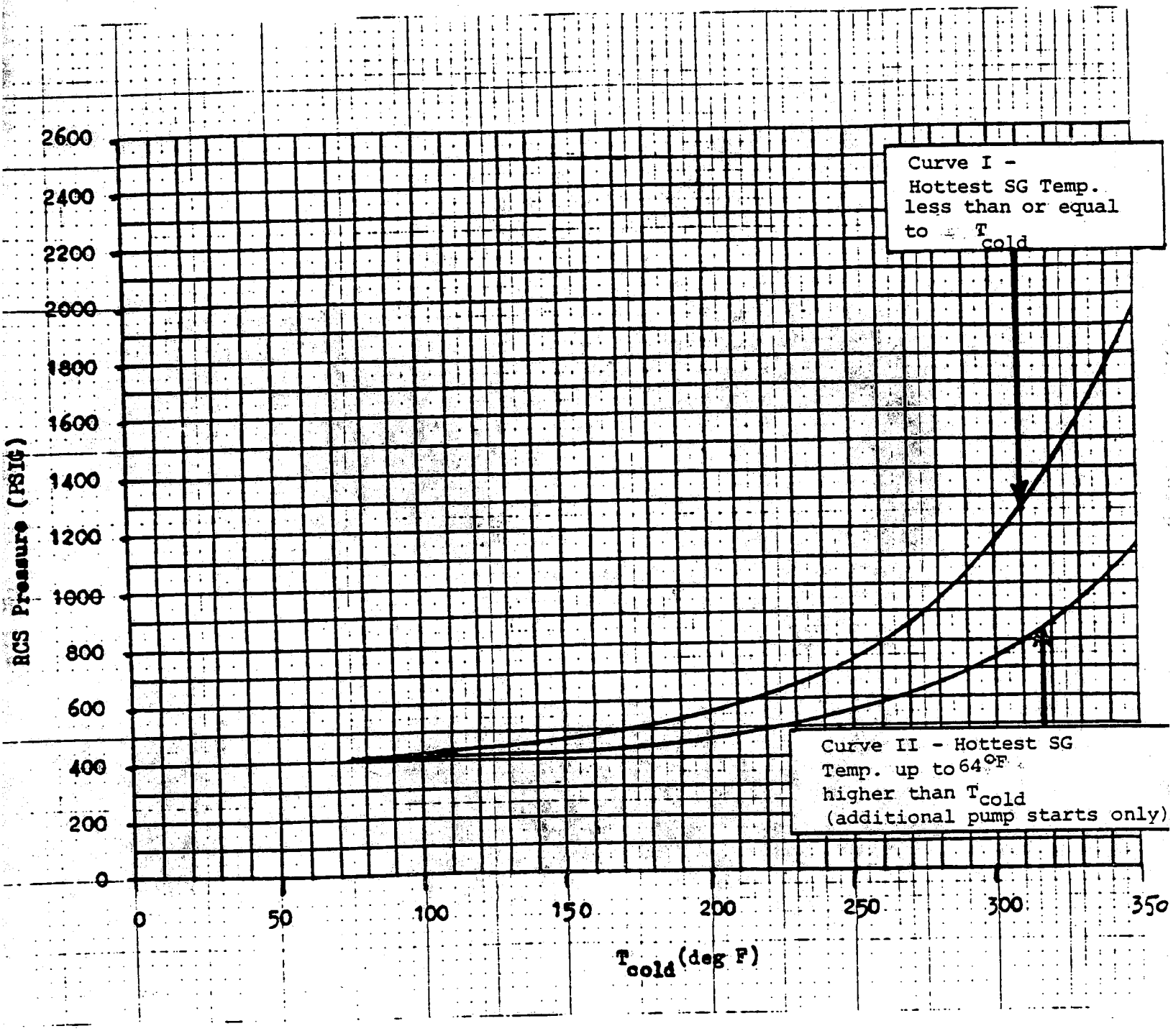

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Figure 3.1.A-3 RCS Pressure Limits for Low Temperature Operation

Notes: No allowance for instrument error beyond 10°F and 30 psi in Appendix - G curve
Figure applicable to 9.26 EFPY

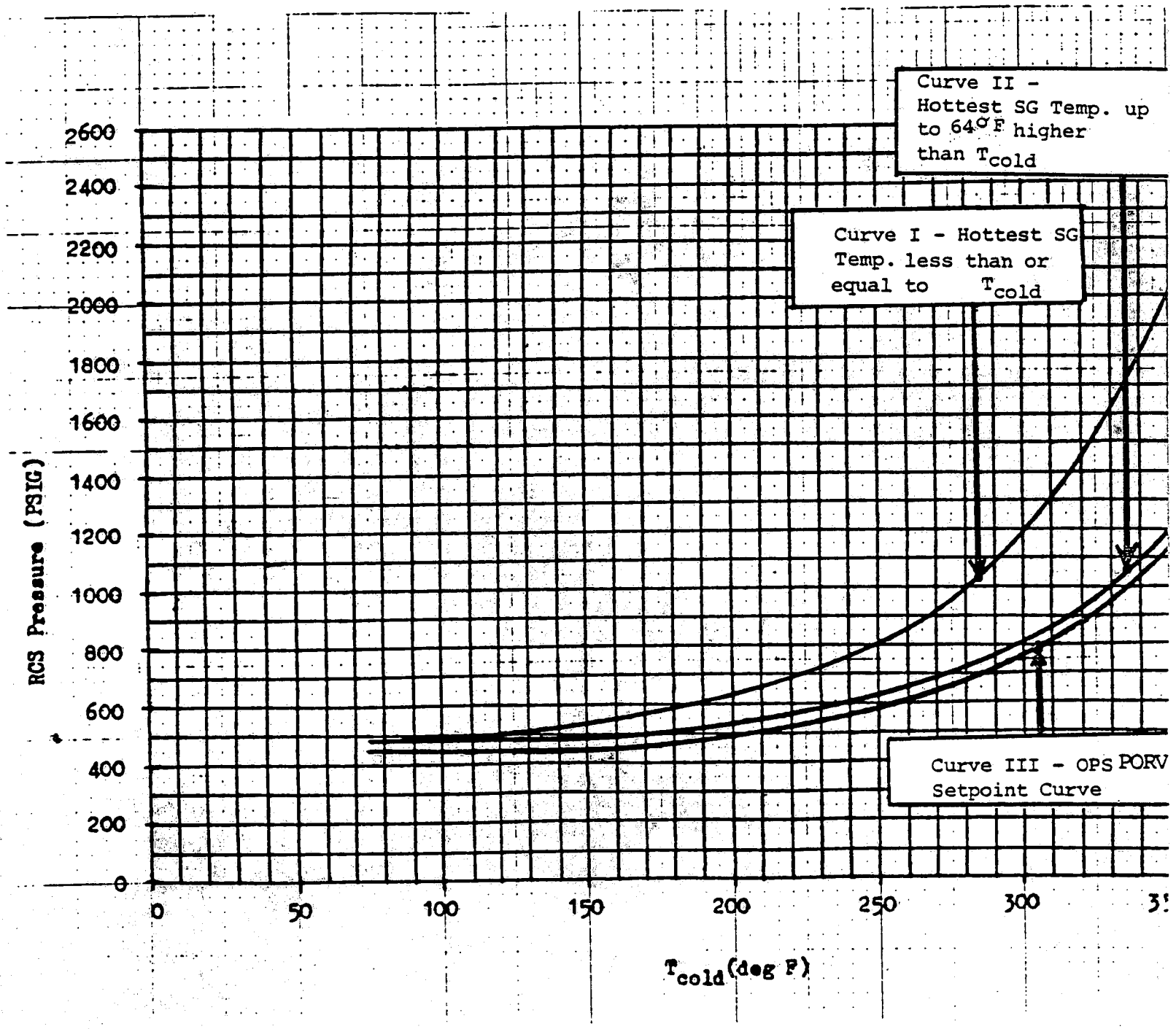

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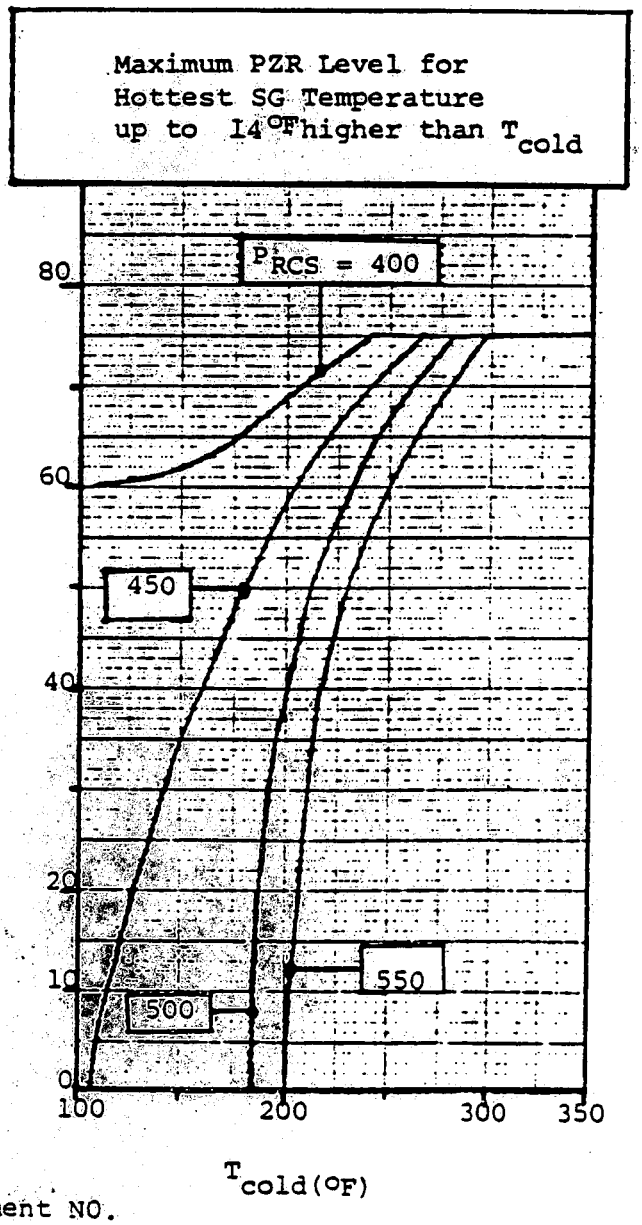
Figure 3.1.A-4

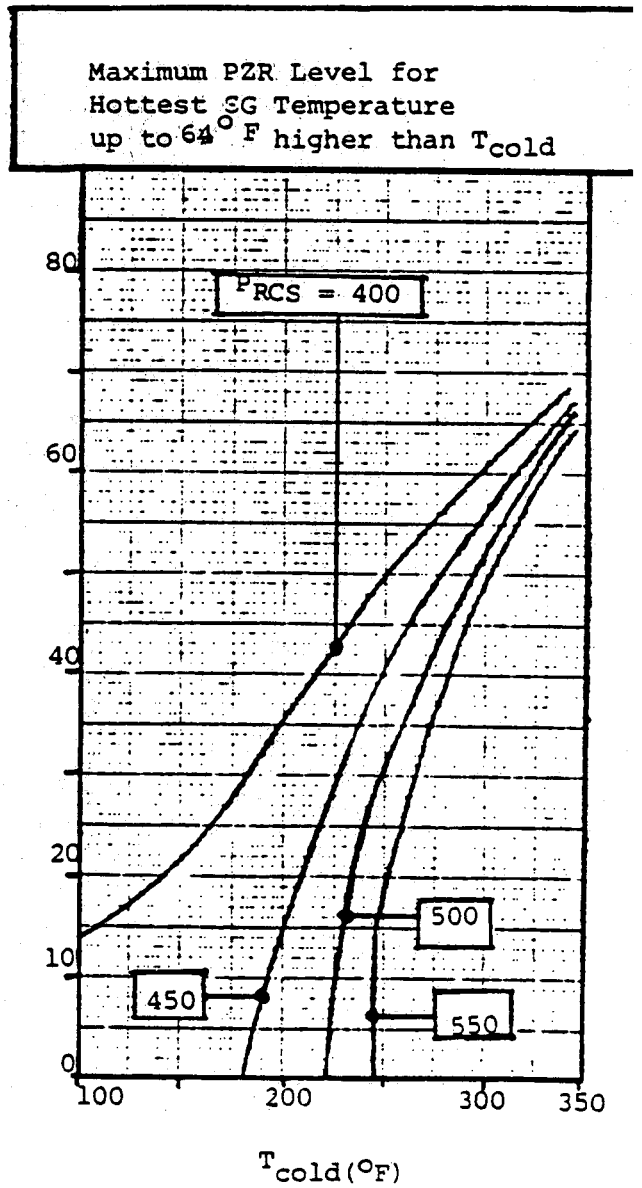
Maximum Pressurizer Level for OPS Inoperable and First RCP Start

(Steam Generator Temperature Greater than T_{cold})

Notes: No allowance for instrument error beyond 10°F and 30 psi in Appendix - G curve, and 5% PRZR LEVEL (Meas. Unc.)

Figure applicable to 9.26 EFPY
P_{RCS} = RCS Pressure (psig)





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