

St. Lucie Unit 1
Docket No. 50-335
Proposed License Amendment
RCS Pressure/Temperature Limits

ATTACHMENT 4

ST. LUCIE UNIT 1 MARKED-UP TECHNICAL SPECIFICATION PAGES

Page 3/4 1-8

Insert - A

Page 3/4 1-9a

Page 3/4 1-12

Insert - B

Page 3/4 4-23a

Page 3/4 4-23b

Page 3/4 4-23c

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REACTIVITY CONTROL SYSTEMS

3/4.1.2 BORATION SYSTEMS

FLOW PATHS - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.1.2.1 As a minimum, one of the following boron injection flow paths shall be OPERABLE and capable of being powered from an OPERABLE emergency power source.

- a. A flow path from the boric acid makeup tank via either a boric acid pump or a gravity feed connection and any charging pump to the Reactor Coolant System if only the boric acid makeup tank in Specification 3.1.2.7a is OPERABLE, or
- b. The flow path from the refueling water tank via either a charging pump or a high pressure safety injection pump* to the Reactor Coolant System if only the refueling water tank in Specification 3.1.2.7b is OPERABLE.

APPLICABILITY: MODES 5 and 6.

ACTION:

With none of the above flow paths OPERABLE, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one injection path is restored to OPERABLE status.

SURVEILLANCE REQUIREMENTS

4.1.2.1 At least one of the above required flow paths shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power operated or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.

*The flow path from the RWT to the RCS via a single HPSI pump shall only be established if: (a) the RCS pressure boundary does not exist, or (b) no charging pumps are operable. ~~In this case all charging pumps shall be disabled, and heatup and cooldown rates shall be limited in accordance with Fig. 3.1-1b.~~

~~At RCS temperatures below 115°F, any two of the following valves in the operable HPSI header shall be verified closed and have their power removed:~~

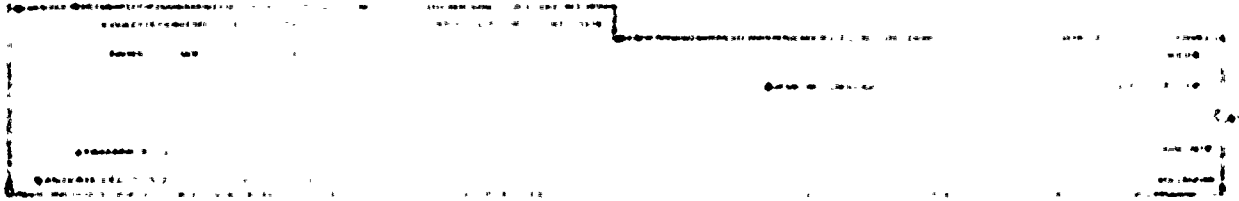
High Pressure Header

- HCV-3616
- HCV-3626
- HCV-3636
- HCV-3646

Auxiliary Header

- HCV-3617
- HCV-3627
- HCV-3637
- HCV-3647

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INSERT - A

In the latter case: 1) all charging pumps shall be disabled; 2) heatup and cooldown rates shall be limited in accordance with Figure 3.1-lb, and 3) At RCS temperatures below 115°F, any two of the following valves in the operable HPSI header shall be verified closed and have their power removed:

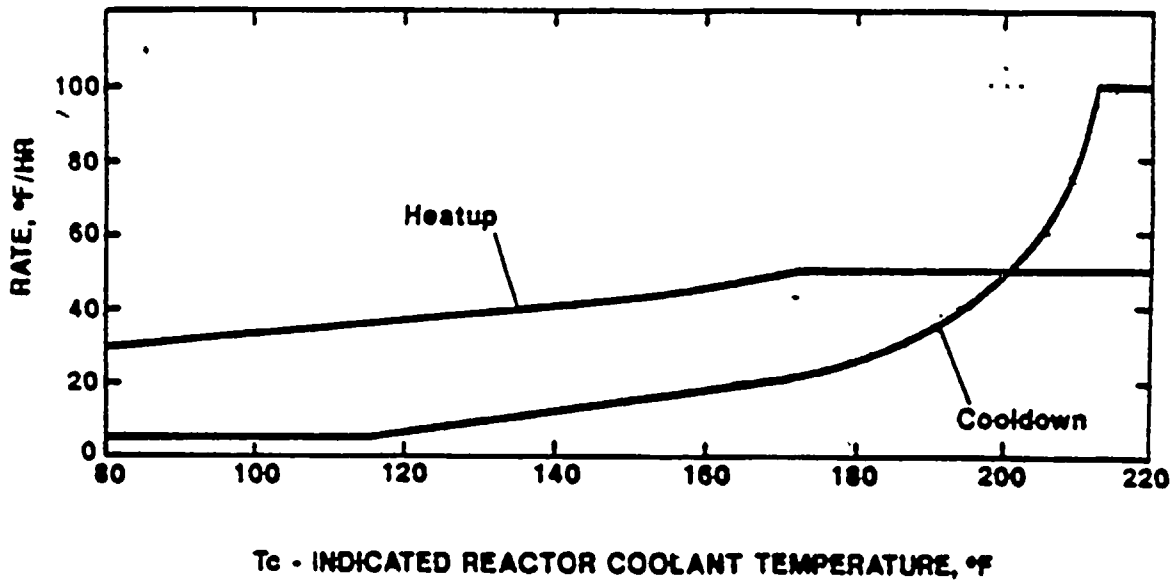


FIGURE 3.1-1b
 MAXIMUM ALLOWABLE HEATUP AND COOLDOWN RATES,
 SINGLE HPSI PUMP IN OPERATION

(23.6 EFPY)

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(53.6 EIPPY)

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REACTIVITY CONTROL SYSTEMS

CHARGING PUMPS - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.1.2.3 At least one charging pump or high pressure safety injection pump* in the boron injection flow path required OPERABLE pursuant to Specification 3.1.2.1 shall be OPERABLE and capable of being powered from an OPERABLE emergency bus.

APPLICABILITY: MODES 5 and 6.

ACTION:

With no charging pump or high pressure safety injection pump* OPERABLE, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one of the required pumps is restored to OPERABLE status.

SURVEILLANCE REQUIREMENTS

4.1.2.3 At least one of the above required pumps shall be demonstrated OPERABLE by verifying the charging pump develops a flow rate of greater than or equal to 40 gpm or the high pressure safety injection pump develops a total head of greater than or equal to 2571 ft. when tested pursuant to Specification 4.0.5.

*The flow path from the RWT to the RCS via a single HPSI pump shall be established only if: (a) the RCS pressure boundary does not exist, or (b) no charging pumps are operable. ~~In this case, all charging pumps shall be disabled and heatup and cooldown rates shall be limited in accordance with Fig. 3.1 lb.~~

~~At RCS temperatures below 115°F, any two of the following valves in the operable HPSI header shall be verified closed and have their power removed:~~

High Pressure Header

HCV-3616
HCV-3626
HCV-3636
HCV-3646

Auxiliary Header

HCV-3617
HCV-3627
HCV-3637
HCV-3647

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In the latter case: 1) all charging pumps shall be disabled; 2) heatup and cooldown rates shall be limited in accordance with Figure 3.1-lb, and 3) At RCS temperatures below 115°F, any two of the following valves in the operable HPSI header shall be verified closed and have their power removed:



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FIGURE 3.4-2a
ST. LUCIE UNIT 1 P/T LIMITS, MEPPY
HEATUP AND CORE CRITICAL

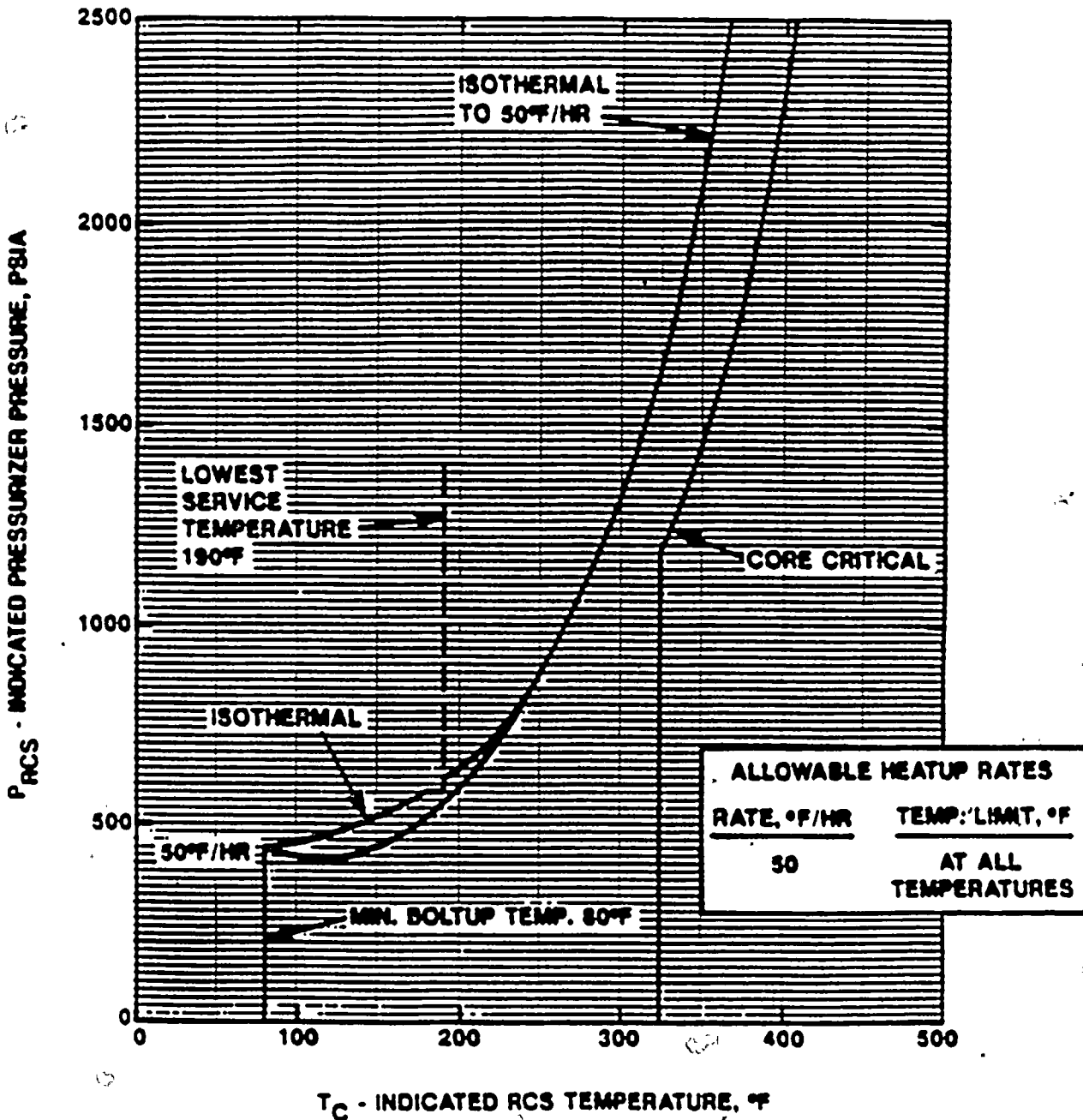
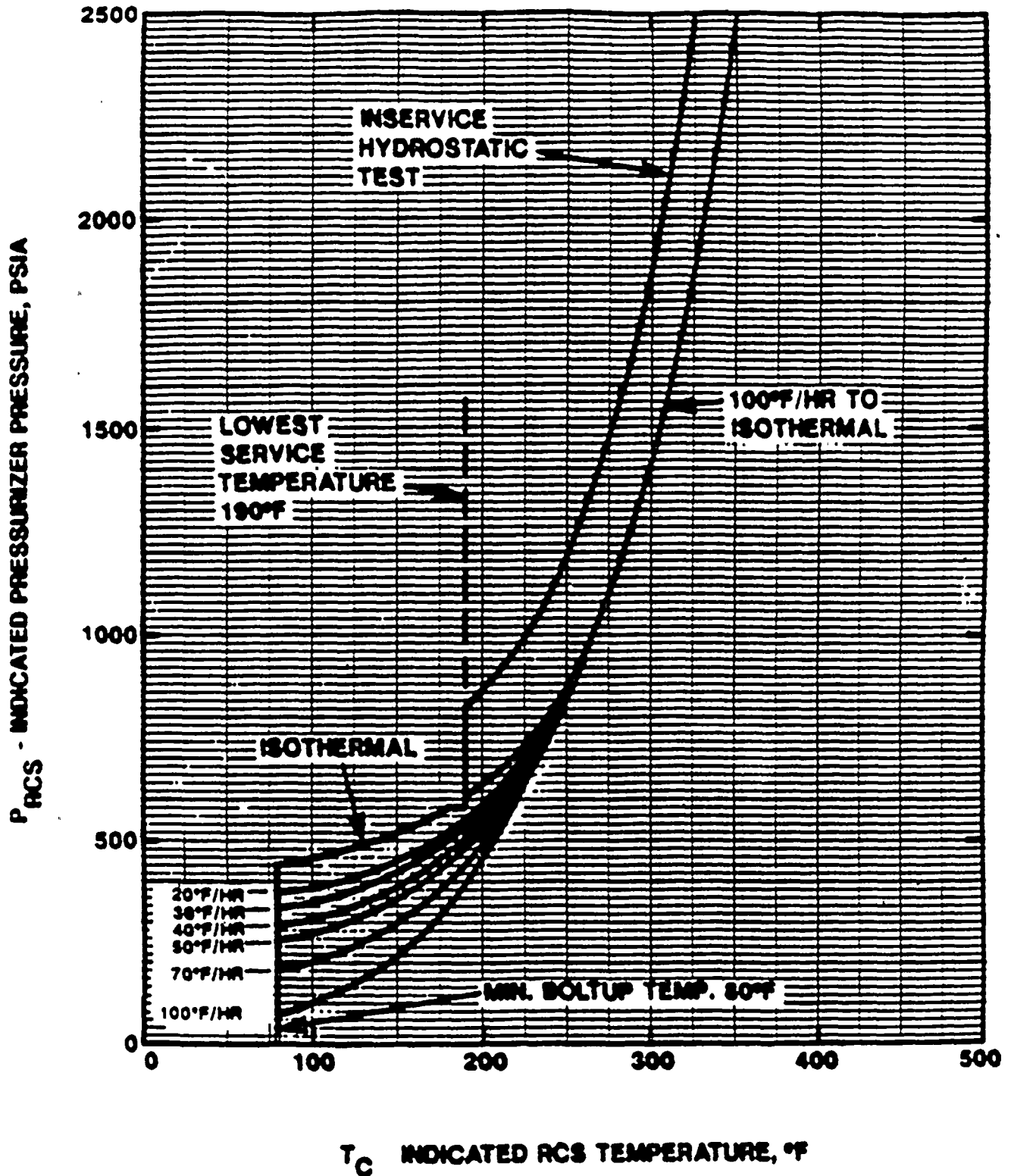




FIGURE 3.4-2b
 ST. LUCIE UNIT 1 P/T LIMITS, 15 EPFY
 COOLDOWN AND INSERVICE TEST

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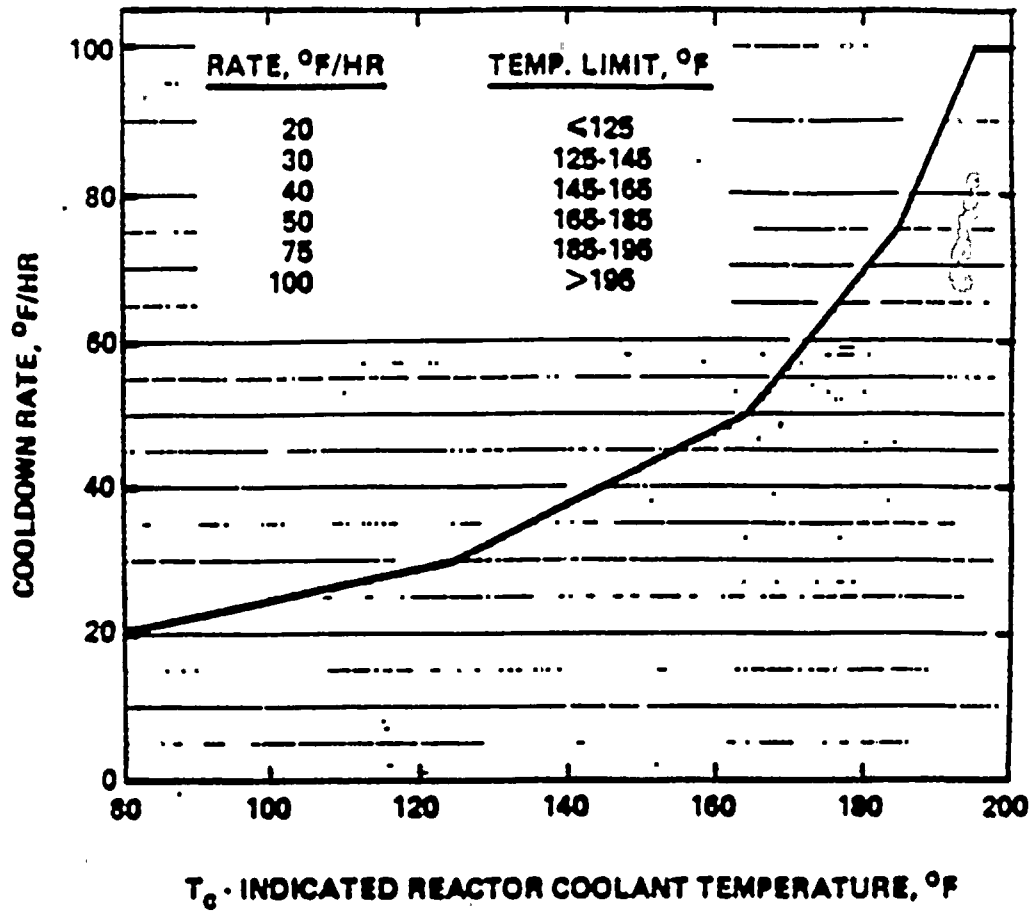
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FIGURE 3.4.3
ST. LUCIE UNIT 1, 85 EFPY
MAXIMUM ALLOWABLE COOLDOWN RATES



NOTE: A MAXIMUM COOLDOWN RATE OF 100°F/HR IS ALLOWED AT ANY TEMPERATURE ABOVE 195°F

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