

E 07/07/78

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DOCTYPE: LETTER NOTARIZED: NO COPIES RECEIVED  
SUBJECT: LTR 3 ENCL 3  
FURNISHING CORRECTION TO MINOR ERROR IN TECH SPEC FIGURE 3.1-2 ("CEA  
INSERTION LIMITS VS. THERMAL PWR WITH 4 REACTOR COOLANT PUMPS OPERATING"),  
AND INFO RE SEQUENCE OF EVENTS LEADING TO ERROR...W/ATT.

PLANT NAME: ST LUCIE #1

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App 2 -

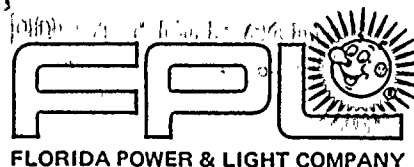
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\*\*\*\*\* THE END \*\*\*\*\* *GD*



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June 28, 1978  
L-78-222

Office of Nuclear Reactor Regulation  
Attention: Mr. R. W. Reid, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Reid:

Re: St. Lucie Unit 1  
Docket No. 50-335

Power Dependent Insertion Limit Curve

The purpose of this letter is to correct a minor error in Technical Specification Figure 3.1-2 ("CEA Insertion Limits vs. Thermal Power with 4 Reactor Coolant Pumps Operating"). The sequence of events leading to the error were as follows:

In March of 1978, Florida Power & Light Company (FPL) received a draft Reload Safety Evaluation (RSE) from Combustion Engineering (C-E) for St. Lucie Unit 1, Cycle 2. A revised Figure 3.1-2 was part of the draft RSE. The C-E revised figure gave CEA insertion limits in per cent as a function of thermal power. At 100% rated thermal power, the Power Dependent Insertion Limit (PDIL) was 25%.

In order to make the curve consistent with the existing Technical Specifications and easier to use, the "CEA Insertion" scale was changed from per cent to inches. The coordinates in the upper left corner of the figure should have been changed from (25,1.0) to (34,1.0), but this was overlooked. The actual position of the PDIL curve was correct; that is, the full power insertion limit corresponded to 34 inches (25% of 137 inches) on the "CEA Insertion" scale, but the abscissa was not changed as it should have been.

The RSE was submitted on March 22, 1978, and the NRC approved numerous Cycle 2 Technical Specification changes by issuing Amendment 27 to Operating License DPR-67 on May 26, 1978. Figure 3.1-2 was issued with the (25,1.0) coordinates intact, but the PDIL curve had been positioned such that, at full power, it corresponded to 25 inches on the "CEA Insertion" scale. The correct curve, as supported by the RSE, should have been positioned such that the full power limit corresponded to 34 inches and the coordinates in the upper left corner read (34,1.0). A corrected Figure 3.1-2 is attached.

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Mr. R. W. Reid, Chief  
U. S. Nuclear Regulatory Commission  
Page Two

June 28, 1978  
L-78-222

Figure 3.1-2 as issued by Amendment 27 is conservative in that it limits Group 7 insertion at full power to 25 inches rather than 34 inches. Since Group 7 is used to dampen Xenon oscillations, the conservative PDIL limit decreases operating flexibility. Limiting Group 7 insertion to 25 inches could permit a situation where power would be limited during a Xenon oscillation because compensating rod insertion past 25 inches would be prohibited. In order to correct our error, and to gain operating flexibility, we request that Figure 3.1-2 be reissued to conform with the attached corrected figure. Your assistance will be appreciated.

Very truly yours,

  
Robert E. Uhrig  
Vice President

REU/MAS/pa

Attachment

cc: Mr. James P. O'Reilly, Region II  
Harold F. Reis, Esquire

ST. LUCIE - UNIT 1

3/4 1-30

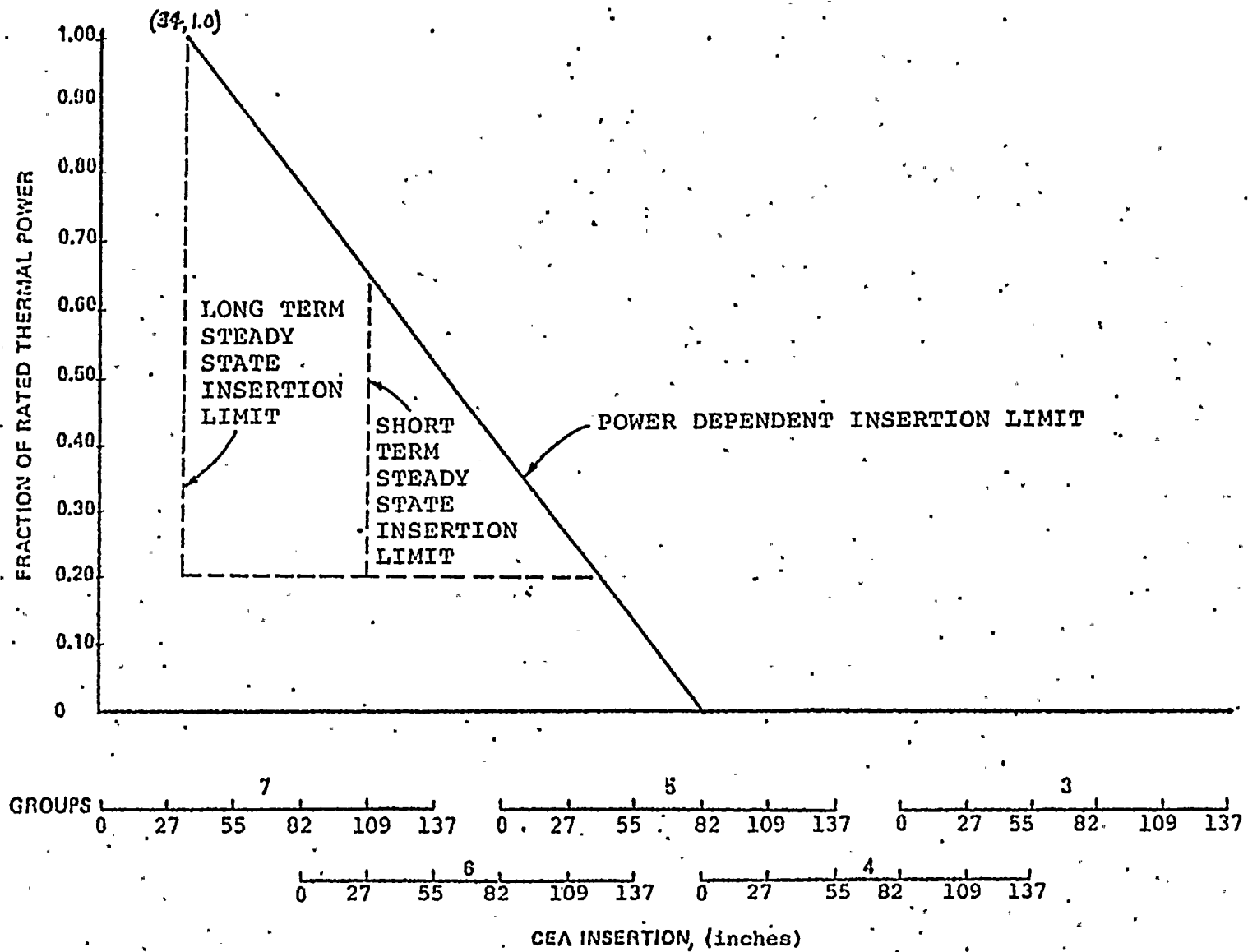


Figure 3.1-2 CEA Insertion Limits vs THERMAL POWER with 4 Reactor Coolant Pumps Operating

