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 UHZIG, R. E.      FLORIDA POWER & LIGHT CO.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 REID, R. W.      OPERATING REACTORS BRANCH 4

SUBJECT: SUBMITS INFO IN RESPONSE TO NRC REQUEST, ZERO POWER PHYSICS TESTS AFTER RELOAD PERFORMED ACCORDING TO PROCEDURES, REVIEW CRITERIA WILL BE ESTABLISHED, EVALUATION OF DIFFERENCE IN INDIVIDUAL ASSEMBLIES POWER TO BE SENT IN TWO WEEKS.

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 TITLE: REACTOR STARTUP TEST REPORT

NOTES: -----

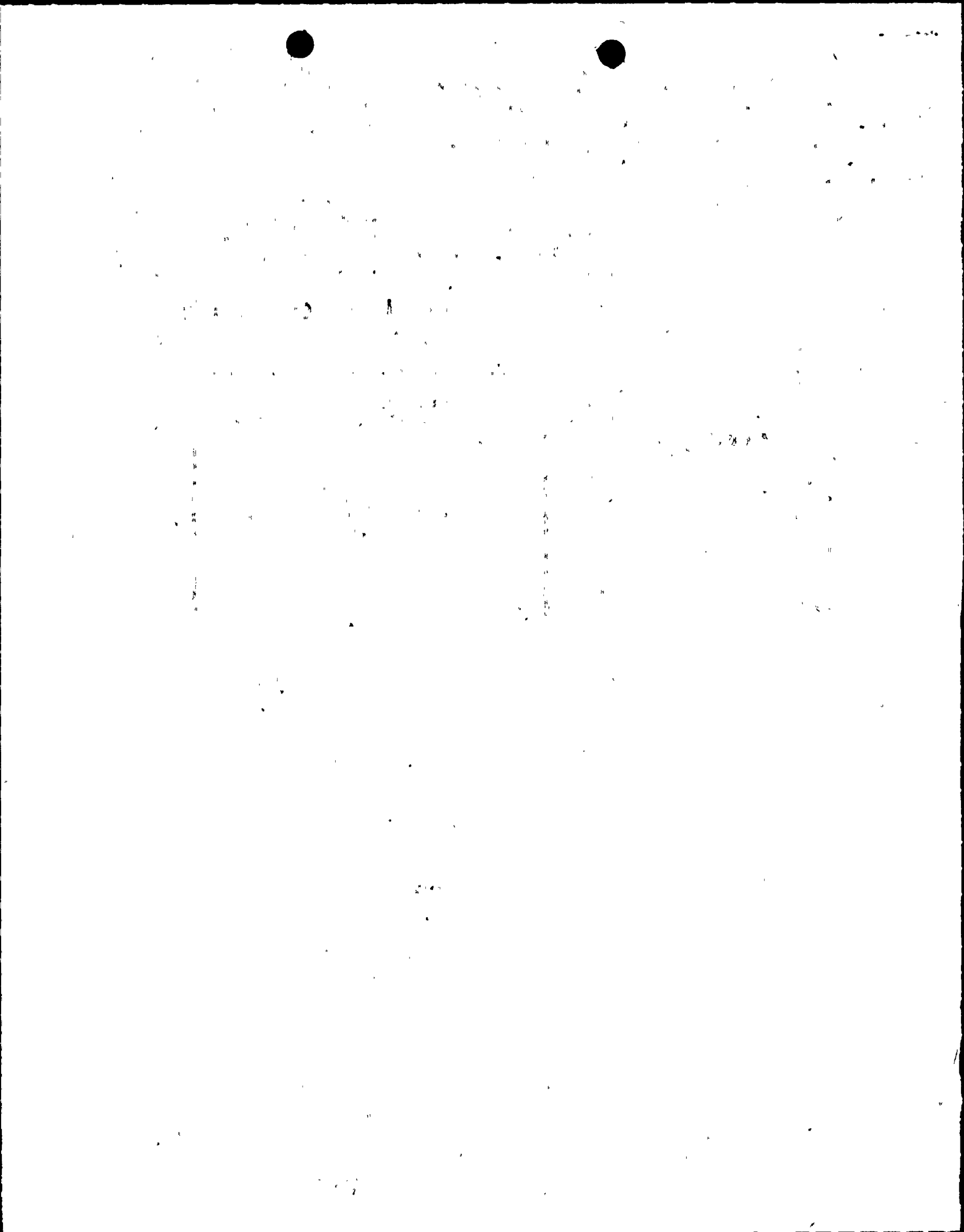
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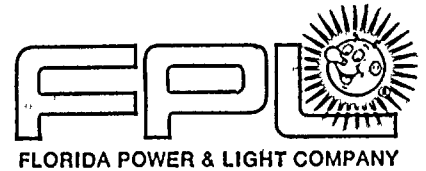
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May 25, 1979  
L-79-140

Office of Nuclear Reactor Regulation  
Attention: Mr. R. W. Reid, Chief  
Operating Reactors Branch #4  
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  
Startup Testing (Cycle 3)

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The following information is submitted in response to a request from your staff:

The total group measured CEA worth for all regulating banks must be within +10% of total design worth. If the total worth is more than 10% above the design worth, FRG review and disposition is required. If the total worth is more than 10% below the design worth, shutdown bank B is measured. If the acceptance criteria (for all regulating banks plus shutdown bank B) is still not met, an evaluation by the NSSS vendor is requested with final review and disposition to be made by the FRG.

Zero Power Physics Tests After Reload are performed in accordance with plant operating procedures. The test results are reviewed and approved by the Reactor Engineering Supervisor and the Facility Review Group prior to entering Mode 1 operation (>5% power). The review and approval encompasses any retests or analyses that are performed as a result of exceeding acceptance criteria. In essence, the zero power physics test results, including the basic program and any additional testing or analyses determined to be necessary, must be satisfactory before Mode 1 operation is allowed.

Review criteria will be established for the Cycle 3 100% power distribution tests (at equilibrium conditions). If the difference between measured and predicted power in individual assemblies is not within:

- 1)  $\pm 10\%$  of predicted if assembly power is  $>.9$  average power,  
or

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2)  $\pm 15\%$  of predicted if assembly power is  $\leq .9$  average power,  
an evaluation will be completed within approximately 2 weeks to determine  
the reason for the difference.

Very truly yours,



*R*  
Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/MAS/cph

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

