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 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261  
 AUTH. NAME: EURY, L.W. AUTHOR AFFILIATION: Carolina Power & Light Co.  
 RECIP. NAME: VARGA, S.A. RECIPIENT AFFILIATION: Operating Reactors Branch 1

SUBJECT: Documents util under standing of present status of turbine  
 missile analysis issue. NRC safety concerns re turbine disc  
 cracking & turbine missiles satisfactorily addressed by util  
 810923 commitment.

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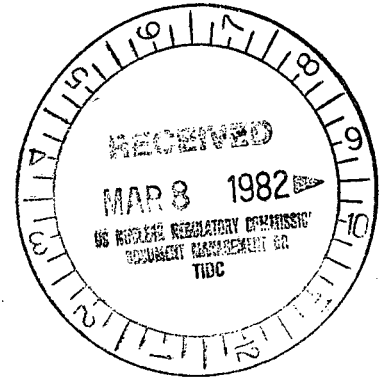
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Carolina Power & Light Company

FEB 19 1982



Office of Nuclear Reactor Regulation  
ATTN: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
United States Nuclear Regulatory Commission  
Washington, D.C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261  
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TURBINE MISSILE ANALYSIS

Dear Mr. Varga:

The purpose of this letter is to document Carolina Power & Light Company's (CP&L) understanding of the present status of the Turbine Missile Analysis issue. Based on conversations with your staff, CP&L understands that NRC's safety concerns related to turbine disc cracking and turbine missiles have been satisfactorily addressed at the present time by CP&L's commitment in our letter of September 23, 1981 to perform turbine inspections at intervals specified by NRC criteria. CP&L further understands that NRC is aware that the turbine vendor (Westinghouse) has provided CP&L with updated information with regard to postulated missile energies and associated probabilities of occurrence but that no action is being taken with regard to that data pending NRC review of Westinghouse topical reports on these issues. CP&L, therefore, does not intend to update its Turbine Missile Analysis for H. B. Robinson until further instructions are received from the NRC.

In a related matter, in its March 18, 1980 submittal on this subject, CP&L quoted a Turbine Missile Analysis contained in the Final Safety Analysis Report (FSAR) which concluded that no missiles would penetrate the turbine casing. Subsequent to the analysis contained in the FSAR, however, another analysis of turbine missiles was performed. That analysis was submitted to the NRC on June 5, 1970, and postulated that it was possible for turbine missiles to penetrate the turbine casing, but concluded that the following criteria were met:

- 1) No direct loss of reactor coolant.
- 2) Reasonable assurance that the plant can be maintained in a safe shutdown condition.
- 3) Offsite exposure within 10CFR100 guidelines for missile damage resulting in activity release.

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Based on these conclusions, and the interim resolution of the turbine missile issue as discussed above, CP&L believes that the June 5, 1970 analysis does not materially affect this issue; however, this analysis will be integrated into the updated FSAR for H. B. Robinson.

Yours very truly,

A handwritten signature in dark ink, appearing to read 'L. W. Eury', written in a cursive style.

L. W. Eury  
Senior Vice President  
Power Supply

JJS/lmr (5396)

cc: Mr. J. P. O'Reilly (NRC-RII)  
Mr. J. Van Vliet (NRC)