



MIDDLE SOUTH UTILITIES SYSTEM

LOUISIANA POWER & LIGHT

142 DELARONDE STREET
P O BOX 6008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

L. V. MAURIN
Vice President
Nuclear Operations

May 14, 1982

W3P82-1055
3-A1.01.04

Mr. R. L. Tedesco
Asst. Director of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Waterford SES 3
Docket No. 50-382
Asymmetric Loads Analysis for Fuel

Dear Mr. Tedesco:

This letter is written to confirm the changes in design basis pipe breaks for Waterford 3 discussed during a telephone conversation between Messrs. R. Bosnak, H. Brammer, D. Terraio (NRC), Mr. R. Iotti (Ebasco), and T. Natan (CE) on February 16, 1982.

An analysis of the fuel for a postulated 350 in.² guillotine break at the reactor vessel inlet nozzle predicts fuel loads in excess of the acceptance criteria. The 350 in.² break flow area reported in CENPD-168A was based on a saddle type pipe whip restraint. The Waterford design incorporates a set of pipe lugs integral with the cold leg pipe which mate with a set of restraint structures to effect a flat interface surface at this particular restraint location. The resultant break flow area at the reactor inlet nozzles is 125 in.². The 125 in.² break will be used only for the analysis of the fuel.

Because of the significant reduction in break size, the vessel inlet break may not result in the largest load on each fuel assembly. LP&L agrees to investigate the possible effects of the 600 in.² hot leg break at the steam generator nozzle to assess its impact on fuel loads.

The submittal dates for the results of our evaluation of the 125 in.² break and the 600 in.² break are August, 1982 and November, 1982, respectively.

We will continue to keep you informed as to any changes in our approach.

L. V. Maurin

LVM/RMF/jy

cc: W. M. Stevenson, E. L. Blake, S. Black

*3001
5/10*

bcc: Ebasco (2), J. M. Brooks, R. J. Milhiser (2), D. B. Lester,
F. J. Drummond, T. F. Gerrets, C. J. Decareaux, T. K. Armington,
P. V. Prasankumar, J. R. McGaha, D. C. Gibbs, Richard Hymes,
L. L. Bass, M. I. Meyer, K. R. Iyengar, L. V. Maurin, R. M. Foley,
M. J. Meisner, J. Hart, Central Records, Nuclear Records (2),
Licensing Library