



**LOUISIANA**  
**POWER & LIGHT**

142 DELARONDE STREET  
P. O. BOX 8008 • NEW ORLEANS, LOUISIANA 70174 • (504) 366-2345

November 2, 1984

W3P84-3098  
3-A1.01.04

Director of Nuclear Reactor Regulation  
Attention: Mr. G. W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C.

SUBJECT: Waterford Steam Electric Station Unit No. 3  
Docket No. 50-382  
Evaluation of Explosion Hazards  
of Existing and Proposed Natural Gas Pipelines

Dear Sir:

On October 25, 1984, LP&L informed the NRC of an existing (14 inch) and proposed (16 inch) natural gas pipelines which are for servicing Waterford 1 and 2 (fossil units). These pipelines have been analyzed and it has been determined that the potential hazards are less than the events analyzed in FSAR Section 2.2 and Questions 311.1 and 311.2.

The existing 14 inch line runs in the NE-SW direction and is located west of Waterford 1 and 2. The proposed 16 inch line runs approximately in the same right-of-way as the existing 10 inch line. Since the 16 inch line is closer to Waterford 3 than the 14 inch line, only the 16 inch line was analyzed.

The resulting explosion analysis of the 16 inch line resulted in an over-pressure of 1.5 psi and a reflected over-pressure of 3 psi. These results were greater than the explosion results of the 26 inch Texaco pipeline (1.0 psi over-pressure, 2.1 psi reflected over-pressure), but were less than the explosion results of the LPG truck explosion on Highway LA 18 (3.0 psi over-pressure, 6.5 psi reflected over pressure). Therefore, both the existing 14 inch line and the proposed 16 inch line do not invalidate the analyses presented in the FSAR.

LP&L recognizes the necessity of maintaining cognizance of activities within the close proximity of the Waterford 3 SES. LP&L will establish a program to assure that LP&L Nuclear Operations will be informed of proposed activities within the exclusion area which could be potentially hazardous to Waterford 3.

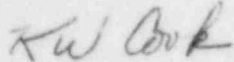
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Your prompt attention and review of this evaluation will be appreciated. If there are any question regarding the evaluation please do not hesitate to call.

Yours very truly,



K. W. Cook  
Nuclear Support & Licensing Manager

KWC/RWP/pc

cc: E. L. Blake, W. M. Stevenson, J. T. Collins, D. M. Crutchfield,  
J. H. Wilson, G. L. Constable, K. M. Campe