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POWER & LIGHT**

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July 9, 1985

W3P85-2157
3-A1.01.04
A4.05

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. 20555

SUBJECT: Waterford 3 SES
Docket No. 50-382
Broad Range Toxic Gas Detector (BRTGD) System

REFERENCES: 1. LP&L Letter W3P84-3506 dated December 17, 1984
2. LP&L Letter W3P84-2152 dated August 9, 1984
3. LP&L Letter W3P84-1094 dated April 30, 1984

Dear Mr. Knighton:

The purpose of this letter is to provide notification to the NRC that the BRTGD system was placed in service June 28, 1985. This action satisfies an LP&L commitment documented in reference one.

The BRTGD system consists of two model 201 toxic gas detectors and one model 501 gas chromatograph. The model 201 detectors are broad range, and these detectors respond to all gases with an ionization potential equal to or less than the ionization potential of the installed lamp. The 201 detectors will therefore provide detection and isolation of the Control Room for the following gases, sulfur monochloride, thionyl chloride, acrylonitrile, acrolein, benzene and ethylene oxide. As noted in references one (1) through three (3), hydrogen chloride and sulfur dioxide will not be detectable by the BRTGD system. However, hydrogen chloride is no longer produced by Union Carbide, and sulfur dioxide is detectable by odor.

The model 501 gas chromatograph is expected to be placed in service in early August. The model 501 gas chromatograph is programmed to identify only certain gases - acrolein, chloroprene, carbon disulfide, hydrogen sulfide, and ethylene oxide. As previously noted in reference one (1), during the first year of operation, data will be collected and analyzed to determine the setting of the 201 gain adjustment. Equipment performance, maintenance history, as well as toxic gas readings will be used to optimize the calibration of the

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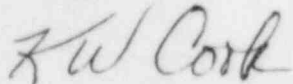
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detectors. After operating experience is gained, the model 501 gas chromatograph may require reprogramming to other specific gases. The final calibration and programming of the BRTGD system shall be incorporated in technical specifications proposed by LP&L prior to startup following the first refueling outage pursuant to Operating License NPF-38, Condition C.4.

Please contact me or Robert J. Murillo should you have any questions.

Yours very truly,

A handwritten signature in cursive script, appearing to read "K.W. Cook".

K.W. Cook
Nuclear Support & Licensing Manager

KWC/RJM/pcl

cc: B.W. Churchill, W.M. Stevenson, R.D. Martin, D.M. Crutchfield,
J. Wilson, T.A. Flippo