

POWER AUTHORITY OF THE STATE OF NEW YORK

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TRUSTEES

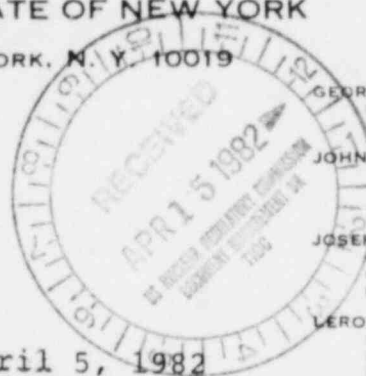
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April 5, 1982  
JPN-82-36

Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. Domenic B. Vassallo, Chief  
Operating Reactors Branch No. 2  
Division of Licensing

Subject: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
NUREG-0737 Item III.A.2, Meteorological Criteria  
for Emergency Preparedness

- References: 1. PASNY letter - J.P. Bayne to T.A. Ippolito  
dated July 7, 1981 regarding NUREG-0737  
POST-TMI Requirements
2. NMPC letter - D.P. Dise (Niagara Mohawk)  
to D.G. Eisenhut (USNRC) dated June 30, 1981.

Dear Sir:

The Authority stated in Reference 1 that an upgraded meteorological system would be provided to serve both the James A. FitzPatrick and Nine Mile Point Unit 1 Nuclear Power Plants to assess the impact of a release of radioactive materials to the atmosphere. A functional description of the tower and associated instrumentation was provided to you via Reference 2. In that letter, we anticipated that the upgraded system would be operational by July 1, 1982. It has been necessary to postpone this date until September 30, 1982 to agree with equipment procurement schedules.

However, until the complete upgraded system is functional, an interim dose assessment system will be provided. This interim system will use a model capable of meeting the criteria for Class A models outlined in Appendix 2 to NUREG-0654 and will be operated from an offsite location (the vendor's office). Data will be transmitted via remote modems and computer terminals. Data will be input manually. The interim system is scheduled to be operational by July 1, 1982. While this will not fully comply with Appendix 2 to NUREG-0654, it will provide enhanced assessment capability in the interim.

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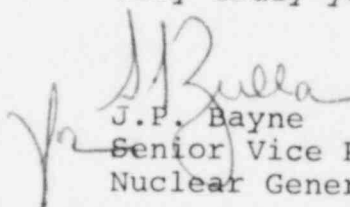
The Power Authority is committed to comply with the modeling requirements of Appendix 2 to NUREG-0654. Dispersion models to meet these requirements are being evaluated against criteria developed by Niagara Mohawk. These criteria include, but are not limited to, the ability to compute changing plume trajectories, acceptance of multiple meteorological input, and consideration of site specific climatological effects. Development of these criteria was mandated by the lack of additional NRC guidance on modeling capabilities cited in Appendix 2 to NUREG-0654.

Data from a ten-meter, inland meteorological pole, equipped with wind speed and wind direction instruments, is required so that the model will yield site specific results. A study is being conducted to determine an appropriate pole location. The resulting inland meteorological measurements will be used with the measurements from the existing site tower to assess the presence of lake breezes. The scheduled completion date of the study is September 30, 1982. Installation of the inland pole and associated equipment will follow completion of the study.

We anticipate that the site specific modeling system, including data from the inland tower, will be operational by January 1, 1983. The Authority also expects to submit, for review, a description of methodologies and associated procedures.

If you or your staff have any questions concerning this subject, please do not hesitate to contact us.

Very truly yours,

  
J.P. Bayne  
Senior Vice President  
Nuclear Generation

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