



Public Service of New Hampshire

SEABROOK STATION  
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March 16, 1983

SBN-493  
T.F. Q2.2.2

United States Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

Attention: Mr. Richard W. Starostecki, Director  
Division of Resident and Project Inspection

References: (a) Construction Permit CPPR-135 and CPPR-136, Docket  
Nos. 50-443 and 50-444  
(b) Telecon of February 15, 1983, A. L. Legendre Jr. (YAEC)  
to Jim Wiggins (NRC Region I)

Subject: Final 10CFR50.55(e) Report; General Atomic RM-23 Display

Dear Sir:

On February 15, 1983, a potentially reportable 10CFR50.55(e) item was reported [Reference (b)] regarding the General Atomic RM-23 Display.

It has been determined that this item is reportable under 10CFR50.55(e). The following information is provided per 10CFR50.55(e)(3) and is considered to be the final report on this item.

Description of the Deficiency

During start-up of a GA Technologies Inc. (GA) Radiation Monitoring System at a nuclear power plant, an intermittent lock-up of the RM-23 display was reported. This lock-up causes the "Channel Activity" display to freeze at the most recent activity value for each channel. Initially, it was thought that this condition was an anomaly related to the specific installation. However, since the RM-23 is safety-related, GA has conducted further studies, and the results of these studies have led them to suspect that a general design problem with the RM-23 may exist.

GA has determined that this possible defect is reportable pursuant to the requirements of 10CFR21, has notified the NRC.

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Analysis of Safety Implications

The RM-23 display does provide safety-related radiation parameter information to plant personnel; however, a lock-up of the RM-23 display would not effect the automatic safety function which is initiated by radiological conditions at the radiation monitor itself which is unaffected by the display lock-up.

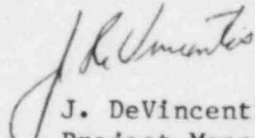
Corrective Action

GA is reviewing the RM-23 design and conducting additional software tests in the field and at GA to determine if a generic design problem exists, and if it does, to determine the exact nature of the problem so it can be resolved expeditiously.

For the RM-23 displays which are installed in Safety Cabinets, modifications, as necessary, will be made prior to delivery to Seabrook Station. For the RM-23P portable display units, modifications will be made in the field at the time of the Unit 1 radiation monitoring system start-up.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

  
J. DeVincentis  
Project Manager

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cc: Atomic Safety and Licensing Board Service List

Director, Office of Inspection and Enforcement  
Washington, DC 20555