

# Maine Yankee

RELIABLE ELECTRICITY SINCE 1972

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April 7, 1994  
MN-94-26      JRH-94-62

UNITED STATES NUCLEAR REGULATORY COMMISSION  
Attention: Document Control Desk  
Washington DC 20555

- References: (a) License No. DPR-36 (Docket No. 50-309).  
(b) USNRC Letter to Maine Yankee Atomic Power Company dated September 9, 1989.  
(c) USNRC Letter to Maine Yankee Atomic Power Company dated March 31, 1992.  
(d) Maine Yankee Atomic Power Company Letter to USNRC dated June 22, 1992.

Subject: 115KV Offsite Power System

Gentlemen:

Reference (b) requested Maine Yankee to demonstrate by load tracking, analysis and any needed improvements that the Suroweic transmission line will remain fully capable for another five years. To be meaningful, this demonstration should be reflective of Suroweic line performance when it is the only 115KV power supply to Maine Yankee (normally the Suroweic line is cross-connected at Maine Yankee with the Mason Station line). A review of Central Maine Power records indicated only two periods in the last seven years when the Mason Station line was out of service. Voltage data at Suroweic for these two 6 to 7 hour periods is attached. As indicated by this limited data, essentially no changes in Suroweic substation voltage has occurred. The voltage values seen at Suroweic during the two periods when the Mason line was out of service correspond to the voltage values calculated by Central Maine Power (CMP) in their Grid Voltage Study. The CMP Grid Voltage Study provides the basis for the Maine Yankee Auxiliary Power System Voltage Study which documents the adequacy of the Maine Yankee offsite 115KV electrical system to provide power to operate the plant electrical equipment and systems. This Auxiliary Power System Voltage Study, issued in May 1990, does not identify the need to replace transformer X-14.

Reference (b) also requested Maine Yankee provide the detailed design analysis supporting the replacement of the existing X-14 transformer with a larger, more capable, station transformer. Reference (c) requested Maine Yankee provide copies of the technical records and documentation associated with the replacement of transformer X-14. Reference (d) stated that the procurement specification for the replacement transformer X-14 would be completed and forwarded to the NRC by January 1994. Subsequently, the scheduled replacement of transformer X-14 in the 1995 Refueling Outage was deferred due to its lower priority to the 1996 Refueling Outage and the procurement specification development was delayed accordingly.

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CMP is aware of the importance of the 115KV system to Maine Yankee operation. Ensuring the adequacy of the plant electrical system, which includes the 115KV offsite system, is an ongoing process. Maine Yankee and CMP will continue to work together to ensure the 115KV system, whether supplied by Suroweic or Mason, is adequate to support Maine Yankee shutdown, start-up or emergency requirements.

We believe that the long term capability of the offsite power system to provide fully capable power is adequate. The adequacy of the plant electrical system is being reviewed on a periodic basis. We will keep the NRC informed as to the results of our further study into this area. If you have any questions, please call us.

Very truly yours,



James R. Hebert, Manager  
Licensing & Engineering Support Department

WBD/jag

c: Mr. Thomas T. Martin  
Mr. J. T. Yerokun  
Mr. E. H. Trottier  
Mr. Patrick J. Dostie