

March 4, 1976

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Docket No. 50-29

Yankee Atomic Electric Company
ATTN: Mr. Robert H. Groce
Licensing Engineer
20 Turnpike Road
Westboro, Massachusetts 01581

Gentlemen:

We have evaluated the updated Emergency Plan for the Yankee Nuclear Power Station (Yankee-Rowe) which you submitted by letter dated July 22, 1975, and as further described in your letter dated January 14, 1976. Based on our review, we conclude that your plan meets the requirements of 10 CFR Part 50, Appendix E and is acceptable for use at Yankee-Rowe.

Enclosed is a copy of our evaluation of your Emergency Plan.

Sincerely,

/s/

Karl R. Goller, Assistant Director
for Operating Reactors
Division of Operating Reactors

Enclosure:
Emergency Plan Evaluation

cc: See next page

OFFICE	ORB#1	ORB#1	OR KRG		
SURNAME	ABurger:15	RAPurple	KRGoller		
DATE	3/02/76	3/3/76	3/4/76		

cc: Mr. Donald G. Allen, President
Yankee Atomic Electric Company
20 Turnpike Road
Westboro, Massachusetts 01581

Greenfield Public Library
402 Main Street
Greenfield, Massachusetts 01581

EVALUATION OF
YANKEE-ROWE EMERGENCY PLAN

We have reviewed the Yankee-Rowe Emergency Plan, References 1 and 2, and find that the plan meets the requirements of Appendix E to 10 CFR Part 50 and the applicable Regulatory Positions of Regulatory Guide 1.101 dated November 1975. Although implementing procedures appended to the plan were examined during our review, our finding pertains to the general plan itself and not to the details of the procedures.

The normal organization for coping with emergencies consists of the plant operating staff under the direction of the shift supervisor (or a designated alternate) who is the designated Emergency Director. Upon declaration of a more serious emergency, the operating staff would be supplemented by non-shift operating personnel and corporate staff under a designated Emergency Coordinator and in the case of an offsite release of radioactivity, local, State and Federal Agencies and support services. In order to put emergency procedures into effect with a minimum of delay a tag board system for plant personnel is in effect. This board categorizes and details the responsibilities of pertinent plant personnel arriving at an emergency coordination center at the plant. All members of the plant staff are assigned and indoctrinated in specific emergency tasks and succinct summaries of all assignments are available to each emergency team.

The offsite emergency organization consists of State and local Agencies and local support services. The Departments of Health of Massachusetts and Vermont are the prime State Agencies for radiological emergency planning. Monroe Fire Department personnel have received training in radiological safety and are familiar with the plant fire protection system. In the case of an offsite release of radioactivity, or the judgment by plant personnel that such may be imminent, the State Police of Vermont and Massachusetts, who have been designated as the prime offsite response authorities, would immediately establish liaison with the Yankee Rowe Emergency Coordinator at either the prime Emergency Operations Center (EOC) at the Fulton House or the alternate EOC at the Harriman hydroelectric station, as appropriate. State Health Department representatives would also be dispatched to the EOC. Both EOCs are well equipped with communications facilities and a complement of emergency supplies and equipment, and tag boards, are made available at the prime EOC.

Means for detecting abnormal and emergency conditions at the plant include personnel observation and fixed and portable instrumentation. A variety of radiological and non-radiological detectors are located throughout the plant. Audible and visible alarms would sound locally and remotely (in the control room) should an abnormal situation be detected. Redundant means for detection are available in that numerous process variables are

monitored. Many of the plant safety systems operate automatically so that some corrective measures are initiated immediately upon the detection of selected abnormal conditions. Portable radiological and communications equipment would be used as an aid in determining the extent and level of onsite and offsite contamination should there be a release of radioactive material. Data from the Yankee Rowe environmental monitor stations would also be immediately available for analysis. Acceptable criteria for notification of offsite agencies and support services, and for protective actions on behalf of individuals, have been established. Pertinent abnormal operating procedures include the declaration of pre-determined emergency classes based on these criteria and notification instructions, thereby reducing emergency response times to a minimum for those situations where responses can be pre-determined.

Personnel monitoring, first aid, decontamination, respiratory, protective coveralls, stretchers, signs and posters, and other emergency supplies are maintained at the plant, the primary EOC and at North Adams Hospital for use in an emergency. A mobile body burden analyzer is available from the Yankee Nuclear Services Division in Westboro, Mass. Letters of agreement between Yankee Rowe and local physicians, ambulance services and the North Adams Hospital are appended to the Yankee Rowe plan.

Plant personnel are trained in emergency procedures, monitoring (onsite and offsite), health physics, first aid, fire fighting, security and traffic control. Periodic retraining is conducted. Semi-annual radiation emergency exercises are conducted to test various aspects of the plan.

A periodic review of all operating, abnormal and emergency procedures is conducted by the Plant Operations Review Committee and the plant Nuclear Safety Audit and Review Committee.

Tests of major aspects of the emergency plan, including onsite and offsite interfaces, are conducted periodically, with the participation and agreement of State and local Agencies and local Support services. Liaison will be continuously maintained with State and local Agencies responsible for public safety; special attention will be devoted to maintaining effective communication channels and detailing the specific nature of assistance to be rendered.

A procedure which discusses the surveys, personnel monitoring, access control, and the requirement for pre-planned actions for re-entry of a contaminated area is appended to the plan.

References:

1. 22 July 1975 letter, L. H. Heider (Yankee Rowe) to U.S.N.R.C. (Attn: R.A. Purple), transmitting the Yankee Atomic Electric Emergency Plan for the Yankee Rowe Nuclear Power Station.
2. 14 January 1976 letter, J. L. French, (YR) to U.S.N.R.C., providing answers to staff questions re: Yankee Rowe Emergency Plan.