

Mr. James A. Kay  
Manager of Regulatory Affairs  
Yankee Atomic Electric Company  
49 Yankee Road  
Rowe, MA 01367

August 7, 2002

SUBJECT: YANKEE NUCLEAR POWER STATION - BASES CHANGES FOR CRANE  
TRAVEL OVER THE SPENT FUEL PIT (TAC NO. MB5634)

Dear Mr. Kay:

The staff has incorporated the revision of the technical specification (TS) Bases provided by your letter of February 20, 2002. The change for TS 3/4.2, "Crane Travel - Spent Fuel Pit," was made to reflect the use of yard crane auxiliary hook for moving the cask hatch or for placement of the spent fuel cask shield lid when the cask is loaded with spent fuel.

The staff has reviewed the change and finds the revision to the Bases to be acceptable.

Sincerely,

*/RA/*

John B. Hickman, Project Manager, Section 2  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-29

Enclosure: Bases Page B3/4-4

cc w/encl: See next page

Mr. James A. Kay  
Manager of Regulatory Affairs  
Yankee Atomic Electric Company  
49 Yankee Road  
Rowe, MA 01367

August 7, 2002

SUBJECT: YANKEE NUCLEAR POWER STATION - BASES CHANGES FOR CRANE  
TRAVEL OVER THE SPENT FUEL PIT (TAC NO. MB5634)

Dear Mr. Kay:

The staff has incorporated the revision of the technical specification (TS) Bases provided by your letter of February 20, 2002. The change for TS 3/4.2, "Crane Travel - Spent Fuel Pit," was made to reflect the use of yard crane auxiliary hook for moving the cask hatch or for placement of the spent fuel cask shield lid when the cask is loaded with spent fuel.

The staff has reviewed the change and finds the revision to the Bases to be acceptable.

Sincerely,

/RA/

John B. Hickman, Project Manager, Section 2  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-29

Enclosure: Bases Page B3/4-4

cc w/encl: See next page

DISTRIBUTION:

PUBLIC

PDIV-2 Reading

WRuland

JHickman

EPeyton

OGC

GHill (2)

WBeckner

RidsAcrcAcnwMailCenter

RBellamy, Region I

JHannon

**ACCESSION NO.: ML022190219**

**NRR-106**

OFFICE	PDIV-2/PM	PDIV-2/LA	SPLB	PDIV-2/SC
NAME	JHickman	EPeyton	JHannon	SDembek
DATE	7/30/02	7/30/02	8/5/02	8/6/02

DOCUMENT NAME: C:\ORPCheckout\FileNET\ML022190219.wpd

OFFICIAL RECORD COPY

Yankee-Rowe

cc:

Mr. Russell A. Mellor, President & CEO  
Yankee Atomic Electric Company  
Midstate Office Park Suite 200/210  
Auburn, MA 01501

Mr. Kenneth J. Heider, Vice President  
Operations and Decommissioning  
Yankee Atomic Electric Company  
Midstate Office Park Suite 200/210  
Auburn, MA 01501

Mr. Robert Capstick, Director of Government  
and Regulatory Affairs  
Yankee Atomic Electric Company  
Midstate Office Park Suite 200/210  
Auburn, MA 01501

Mr. Brian C. Wood, Site Manager  
Yankee Atomic Electric Company  
49 Yankee Road  
Rowe, MA 01367

Mr. Fredrick Williams, Plant Superintendent  
Yankee Atomic Electric Company  
49 Yankee Road  
Rowe, MA 01367

Mr. Greg Babineau, Safety Oversight  
Manager  
Yankee Atomic Electric Company  
49 Yankee Road  
Rowe, MA 01367

Mr. Bruce Holmgren, Fuel Storage  
Oversight Manager  
Yankee Atomic Electric Company  
Midstate Office Park Suite 200/210  
Auburn, MA 01501

Robert K. Gad, III, Esq.  
Ropes and Gray  
One International Place  
Boston, MA 02110-2624

Ms. Leslie Greer  
Assistant Attorney General  
Commonwealth of Massachusetts  
200 Portland Street  
Boston, MA 02114

Ms. Christine Salambier, Commissioner  
Vermont Department of Public Service  
120 State Street, 3<sup>rd</sup> Floor  
Montpelier, VT 05602

Robert M. Hallisey, Director  
Radiation Control Program  
Massachusetts Department of Public  
Health  
305 South Street  
Boston, MA 02130

Mr. James B. Muckerheide  
Massachusetts Emergency Management  
Agency  
400 Worcester Road  
Framingham, MA 01702-5399

Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Diane Screnci, Region I  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. Marv Rosenstein  
Chief, Chemicals Management Branch  
Office of Ecosystem Protection  
U.S. Environmental Protection Agency  
One Congress Street, Suite 1100,  
Mail Code CPT  
Boston, MA 02114

Yankee-Rowe

cc:

Mr. James Cherniack  
Office of Ecosystem Protection  
U.S. Environmental Protection Agency  
One Congress Street, Suite 1100,  
Mail Code CPT  
Boston, MA 02114

Ms. Elizabeth F. Mason  
Office of Regional Counsel  
U.S. Environmental Protection Agency  
One Congress Street, Suite 1100,  
Mail Code RAA  
Boston, MA 02114

Ms. Bonnie Gitlin  
Radiation Protection Division  
Office of Radiation and Indoor Air  
Office of Air and Radiation  
U.S. Environmental Protection Agency  
Ariel Rios Building, Mail Code 66081  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

Mr. Brian Littleton  
Radiation Protection Division  
Office of Radiation and Indoor Air  
Office of Air and Radiation  
U.S. Environmental Protection Agency  
Ariel Rios Building, Mail Code 66081  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

### 3/4.2 CRANE TRAVEL - SPENT FUEL PIT

#### BASES

---

The restriction on movement of loads in excess of the nominal weight of a fuel assembly over fuel assemblies in the spent fuel pit ensures that in the event this load is dropped (1) the activity release will be limited to that contained in a single fuel assembly, and (2) any possible distortion of the fuel in the storage racks will not result in a critical array. This assumption is consistent with the activity release assumed in the accident analysis.

Handling of the present Spent Fuel Storage Building roof hatches under administrative control will assure safe handling of the roof hatches. The restriction of movement of the spent fuel inspection stand, the spent fuel assembly nondestructive test equipment, the cask hatch cover, the volume reduction equipment, and the shipping cask liners over spent fuel ensures that these items cannot be dropped on spent fuel. Dropping any one of these items from its maximum height will not result in loss of integrity of the spent fuel pit floor. Handling of the fuel handling equipment for infrequent maintenance under administrative control will ensure the safe handling of any fuel handling components.

The use of the Yard Crane single-failure-proof main hook, or the auxiliary hook in accordance with NUREG-0612 and TS 3/4.2 provides assurance that a failure resulting in a load drop is not credible and will not result in the shipping and/or transfer cask, the cask set-down pad, the cask hatch cover, and the cask components and associated lifting devices having an adverse effect on the spent fuel pit or the irradiated fuel in the spent fuel pit. The restriction on movement of the shipping and/or transfer cask, the cask set-down pad, the cask hatch cover, and the cask components and lifting devices further ensures that these items cannot be dropped on spent fuel in the spent fuel pit storage racks. The use of the Yard Crane single-failure-proof main hook, or the auxiliary hook in accordance with the NUREG-0612 and TS 3/4.2 ensures that the cask hatch cover and the cask components and associated lifting devices, which are permitted over the spent fuel in the cask, cannot be dropped on the spent fuel. The safe load path is established to support the defense-in-depth approach to safety concerning heavy loads over the spent fuel pit. Deviations from or changes to the safe load path shall be performed in accordance with approved written procedures which have been reviewed by an Independent Safety Reviewer and approved by the Decommissioning Manager or designee.

YANKEE ROWE

B 3/4-4

Amendment No. 155  
August 7, 2002