

JUL 25 1982

DOCKET NO.: 70-2884  
APPLICANT: Long Island Lighting Company  
FACILITY: Shoreham Nuclear Power Station, Unit I  
SUBJECT: REVIEW OF LICENSE AMENDMENT APPLICATION  
DATED JULY 16, 1982

I. Background

By application dated July 16, 1982, Long Island Lighting Company (LILCO) requested authorization for the temporary storage of new fuel onsite, on the delivery trucks, while awaiting unloading and movement into the reactor building for storage in accordance with their license. An interim storage area within the fenced 138 KV Substation has previously been authorized.

II. Discussion

A. Nuclear Criticality Safety

The fuel assemblies, while stored on the trucks, will be maintained in the packaged configuration in which they are shipped in the RA shipping containers as described in the U.S. Nuclear Regulatory Commission Certificate of Compliance No. 4986. The assemblies are authorized to be shipped in these containers as Fissile Class I which means that any number of such undamaged packages would be subcritical in any arrangement and with optimum interspersed moderation and 250 such packages would be subcritical in any arrangement if each package were subjected to the hypothetical accident conditions specified in Appendix B of 10 CFR Part 71. Authorization has previously been given LILCO to store the fuel assemblies in their shipping containers (inner metal and/or inner metal and outer wooden) in arrays up to four (4) high. Since the arrays of fuel assemblies on or off the trucks will be limited to no more than four (4) high, there will be no nuclear criticality safety problem related to the requested storage of the fuel.

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B. Radiation Safety

Since there will be no change in radiation safety controls, radiation safety is assured.

C. Physical Security

A requested revision to the applicant's Physical Security Plan dated July 19, 1982, was reviewed by the Fuel Facility Safeguards Licensing Branch, Division of Safeguards, NMSS and was approved by letter dated July 23, 1982.

III. General

The amendment application was discussed with Mr. R. A. Gilbert (NRR Project Manager) on July 21, 1982, and with Mr. E. J. Brunner, (Chief, Projects Branch No. 1, Division of Projects and Resident Programs, Region I) on July 21, 1982. Neither foresaw any safety or environmental related problem with the requested authorization.

IV. Conclusion

The requested authorization for the temporary storage of new fuel onsite, on the delivery trucks, while awaiting unloading and movement into the reactor building will have no adverse effect on the health and safety of the operating personnel, the public or the environment.

The staff recommends approval of the requested authorization.

Original signed by  
Norman Ket

Norman Ketzlach  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and  
Material Safety, NMSS

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