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Docket File 70-2936

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JAN 15 1982

DOCKET NO: 70-2936

APPLICANT: Mississippi Power & Light Company

FACILITY: Grand Gulf Nuclear Station, Unit 1

SUBJECT: REVIEW OF LICENSE AMENDMENT APPLICATION DATED DECEMBER 8, 1981,
DOCKET NO. 70-2936I. Background

By application dated December 8, 1981, Mississippi Power & Light Company (MPL) requested authorization to receive, possess and test a shielded waste container having a depleted uranium plug containing 92 kilograms uranium. The shielded waste container (cask) is to be used, after reactor operations begin, to temporarily store the irradiated portions of in-core local power range monitor (LPRM) assemblies upon their removal from the reactor. The waste container is not to be used in outside transportation. The authorization is requested now to check the trolley system of the cask in the locations of intended use.

II. Radiation Safety

All the depleted uranium is in the plug of the cask and is sealed in stainless steel cladding. The sides and bottom of the cask are shielded with lead. No testing of the cask will be conducted with irradiated material. The cask will be located either in one of the controlled areas, in which it is to be tested or stored in a locked area of the warehouse.

Since all the depleted uranium is sealed in stainless steel cladding, the potential for the material to become airborne particulate is non-existent. The risk for an internal exposure through inhalation mode by the worker is, therefore, unlikely. The external radiation exposure from the stainless steel clad depleted uranium is less than 2 mr/hr on contact. Accordingly, the exposure level from this sealed source is less than the external exposure level allowed in a restricted area by 10 CFR 20.

III. Conclusion and Recommendation

The receipt, possession and testing of the shielded waste container will, have no adverse effect on the health and safety of the operating personnel, the public or the environment.

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The staff recommends approval of the requested authorization.

Original Signed by
N. Ketzlach

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

Approved by: Original signed by:
W. T. Crow
W. T. Crow, Section Leader

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