

February 11, 1987

Docket No. 50-184

Dr. R. S. Carter, Chief
Reactor Radiation Division
National Bureau of Standards
U. S. Department of Commerce
Washington, D. C. 20234

Dear Dr. Carter:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

We are continuing our review of your application, dated September 19, 1986, for a unique purpose exemption pursuant to 10 CFR 50.64(c)(1) for your reactor facility and find we require additional information. Please provide a written response to the enclosed question no later than thirty days from the date of this letter. Following receipt of this information we will continue our review.

If you have any questions concerning this request, please contact me at (301) 492-8259.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

original signed by
John J. Dosa, Project Manager
Standardization and Special
Projects Directorate
Division of PWR Licensing-B
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in dark ink, appearing to read "John J. Dosa", is written over the typed name.

John J. Dosa, Project Manager
Standardization and Special
Projects Directorate
Division of PWR Licensing-B
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

cc: Montgomery County Executive
County Office Building
Rockville, Maryland 20858

Director
Department of State Planning
301 West Preston Street
Baltimore, Maryland 21201

Director
Department of Natural Resources
Power Plant Siting Program
Energy & Coastal Zone Administration
Tawes State Office Building
Annapolis, Maryland 21401

Mr. Tawfik Raby
Reactor Supervisor
Reactor Radiation Division
National Bureau of Standards
U.S. Department of Commerce
Washington, D.C. 20234

Attorney General
1 South Calvert Street
Baltimore, Maryland 21202

Mr. Thomas Magette - Administrator
Nuclear Evaluation - Power Plant
Siting Program
Department of Natural Resources
Tawes State Office Building
Annapolis, Maryland 21401

Enclosure

National Bureau of Standards
Docket No. 50-184
Unique Purpose Exemption Request
Request for Additional Information

10 CFR §50.64(b)(3) requires that any licensee granted a unique purpose exemption from the use of LEU fuel must use HEU fuel of enrichment as close to 20% as is available and acceptable to the Commission.

If fuel of any enrichment from 20% to 93% were available and you were granted a unique purpose exemption, what would be the lowest enrichment fuel that your reactor could use and still reasonably accomplish its primary projects, programs, or commercial activities? In your answer, please justify your final choice of enrichment based upon the physical and technical limitations of your reactor and its supporting programs.