

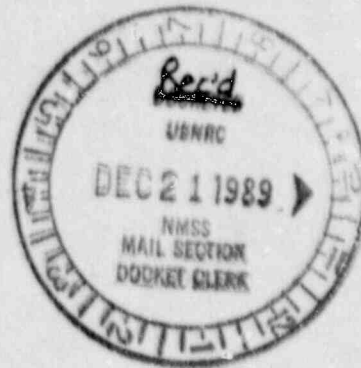
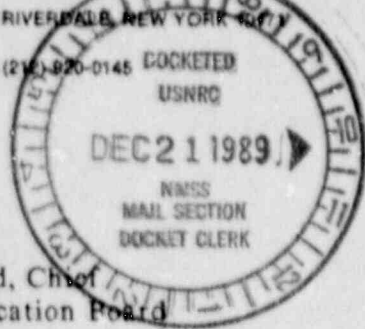
RETURN TO 396-33

71-0689

Manhattan College

MANHATTAN COLLEGE PARKWAY  
RIVERDALE, NEW YORK 10575  
(212) 920-0145

MECHANICAL ENGINEERING DEPARTMENT 71-5908



December 12, 1989

Mr. Charles MacDonald, Chief  
Transportation Certification Board  
Mail Stop 4E4  
NMSS/SGTB  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

SUBJECT: Transport of Manhattan College Zero Power Reactor (MCZPR) Spent Fuel to ORNL

Dear Mr. MacDonald:

Manhattan College is currently preparing to replace the HEU fuel elements in the MCZPR with LEU fuel that is being fabricated by Babcock and Wilcox. The spent fuel, which has essentially negligible burnup and low surface radiation levels because of the very low power level (0.1 watt) and low total operating time, will be shipped to ORNL as scrap in DOT-6m Type B packages. We have been informed by the DOE that B&W will ship the new LEU fuel elements to us in 6M packages, which we will then use for the HEU fuel elements.

We have prepared and are submitting for your approval, as required by 10 CFR Part 71, (1) a Quality Assurance Plan (Attachment I) for the procurement and use of the 6M containers to ship the spent fuel to ORNL (2). Procedures for HEU Shipping from Manhattan College Nuclear Reactor Facility using a DOT 6M type B container (Attachment II).

We have also included, for completeness, a copy of the B&W Certificate of Compliance you issued for the DOT-6M Type B containers that will be used in this shipment (Attachment III). In addition our correspondence with ORO providing the parameters of the spent fuel is included as Attachment IV.

Please let me know if any additional information is required to obtain approval for this shipment.

Sincerely,

Robert E. Berlin  
Reactor Administrator

cc: Ted Michaels, NRC  
Keith Brown, DOE  
ROC Members  
Dr. J. Lestingi

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