



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899

April 9, 2004

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Subject: Docket #50-184

Subject: License Renewal Application for the National Institute of Standards and  
Technology Reactor

The National Institute of Standards and Technology (NIST) is pleased to submit its application to renew the operating license for the NIST reactor, the NBSR, for an additional 20 years. The docket number assigned by the NRC is 50-184 and the license number is TR-5. This application consists of the following documents to support license renewal: Safety Analysis Report (document number NBSR-14), Technical Specifications as Appendix A to the license (NBSR-15), Environmental Report (NBSR-16), and a letter from the NIST Deputy Chief Financial Officer certifying that congressional appropriations for decommissioning the NBSR will be requested when necessary.

NIST reanalyzed postulated accidents and transients using the latest neutronic and thermal hydraulic analysis programs. In all cases the new analysis shows that the analysis performed when the NBSR was initially licensed was conservative and the margins for safety are greater than originally documented. NIST has concluded that operation of the NBSR will present no undue hazard to any member of the general public or to the staff.

There is no change to the NBSR Operator Requalification Plan, Emergency Plan, or Safeguards Plan.

If you have any questions please contact me on 301-975-6265

Sincerely,

Seymour H. Weiss  
Chief Reactor Operations and Engineering

Enc: hardcopy and five CDs

*Process as is  
Per Mendonca*

*A020*

**NIST**

I certify under penalty of perjury that the foregoing is true and correct.

Executed on April 9, 2009, Seymour H. Weiss

cc: CD enclosed  
Marvin Mendonca (NRC)  
Craig Bassett (NRC)

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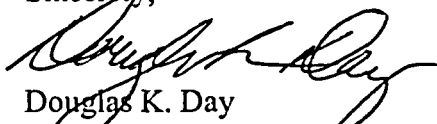
April 9, 2004

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

Re: Funds for Decommissioning of the NIST Research Reactor

This is to certify that congressional appropriations for decommissioning of the NIST Center for Neutron Research (NCNR) reactor will be requested when necessary. The amount of the appropriation request will be based on FY 2004 independent estimate of 30.2 million for additional costs of decommissioning. This estimate will be adjusted for future years according to the formula provided in the independent estimate from Duratek, Inc.

Sincerely,



Douglas K. Day  
Deputy Chief Financial Officer

**NIST**