

February 24, 2017

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

Reference: NC State University PULSTAR Reactor  
Docket No. 50-297, License No. R-120

Subject: License Renewal of the PULSTAR Reactor with Power Uprate to 2.6 MW

Gentlemen:

In accordance with the provisions of 10 CFR 2.109, 10 CFR 50.33 and 10 CFR 50.34, NC State University hereby requests a renewal of Operating License No. R-120 for the PULSTAR Reactor, a Class 104 licensed facility utilized for education, research, and extension. This renewal package includes materials supporting a requested increase of the licensed power limit from 1.0 MW to 2.6 MW.

In support of this renewal and power uprate request, the following documentation is enclosed:

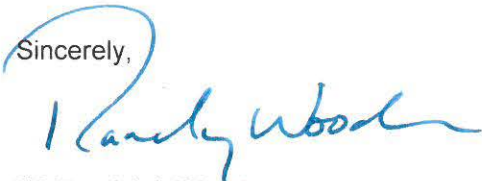
1. Updated Safety Analysis Report (SAR)
2. Financial Qualifications Report
3. Environmental Report
4. Technical Specifications (revised in accordance with the updated Safety Analysis Report)
5. Reactor Operator Training and Requalification Program
6. Emergency Plan

The facility Physical Security Plan will be submitted separately per the requirements of 10 CFR 73.23. Both the SAR and the Technical Specifications conform to the format given in NUREG-1537.

If you have any questions in this matter, please direct them to Dr. Ayman Hawari, Director of the Nuclear Reactor Program, at (919)515-7294, or via email at [ayman.hawari@ncsu.edu](mailto:ayman.hawari@ncsu.edu).

I declare under penalty of perjury that the forgoing is true and correct. Executed on 24<sup>th</sup> February 2017.

Sincerely,



W. Randolph Woodson  
Chancellor

WRW/mh

cc: Dr. Ayman Hawari, Director, Nuclear Reactor Program, North Carolina State University