

September 28, 1998

Mr. Pedro B. Perez
Associate Director
Nuclear Reactor Program
Department of Nuclear Engineering
Campus Box 7909
Raleigh, NC 27695-7909

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (TAC NO. MA1936)

Dear Mr. Perez:

We are continuing our review of your amendment request for Facility License No. R-120 for the North Carolina State University PULSTAR Research Reactor which you submitted on May 7, 1998. During our review of your amendment request, questions arose for which we require additional information and clarification. Please provide responses to the enclosed request for additional information within 60 days of the date of this letter. In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation. Following receipt of the additional information, we will continue our evaluation of your amendment request.

If you have any questions regarding this review, please contact me at (301) 415-1127.

Sincerely,

ORIGINAL SIGNED BY:

Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-297

Enclosure:
As stated

cc w/enclosure:
See next page

NAC FILE CENTER COPY

111
DFol

DISTRIBUTION:

E-MAIL

PDoyle
TDragoun
TMichaels
SHolmes
WEresian

300052

TBurdick
MMendonca
SWeiss
CBassett
Plsaac

HARD COPY

Docket File 50-297
PUBLIC
OGC
DMatthews
GHill (2)

JRoe
AAdams
EHylton
PDND r/f

PDND:LA
EHylton *ETD*
9/28/98

PDND:PM
AAdams
9/28/98

PDND:D *W*
SWeiss
9/28/98

OFFICIAL RECORD COPY DOCUMENT NAME: G:\SECY\ADAMS\297RAI1.13

9809300369 980928
PDR ADOCK 05000297
P PDR

September 28, 1998

Mr. Pedro B. Perez
Associate Director
Nuclear Reactor Program
Department of Nuclear Engineering
Campus Box 7909
Raleigh, NC 27695-7909

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (TAC NO. MA1936)

Dear Mr. Perez:

We are continuing our review of your amendment request for Facility License No. R-120 for the North Carolina State University PULSTAR Research Reactor which you submitted on May 7, 1998. During our review of your amendment request, questions arose for which we require additional information and clarification. Please provide responses to the enclosed request for additional information within 60 days of the date of this letter. In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation. Following receipt of the additional information, we will continue our evaluation of your amendment request.

If you have any questions regarding this review, please contact me at (301) 415-1127.

Sincerely,

ORIGINAL SIGNED BY:

Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-297

Enclosure:
As stated

cc w/enclosure:
See next page

DISTRIBUTION:

E-MAIL

PDoyle
TDragoun
TMichaels
SHolmes
WEresian

TBurdick
MMendonca
SWeiss
CBassett
Pisaac

HARD COPY

Docket File 50-297
PUBLIC
OGC
DMatthews
GHill (2)

JRoe
AAdams
EHylton
PDND r/f

PDND:LA
EHylton *ETD*
9/18/98

PDND:PM
AAdams
9/28/98

PDND:D *W*
SWeiss
9/18/98



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 28, 1998

Mr. Pedro B. Perez
Associate Director
Nuclear Reactor Program
Department of Nuclear Engineering
Campus Box 7909
Raleigh, NC 27695-7909

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (TAC NO. MA1936)

Dear Mr. Perez:

We are continuing our review of your amendment request for Facility License No. R-120 for the North Carolina State University PULSTAR Research Reactor which you submitted on May 7, 1998. During our review of your amendment request, questions arose for which we require additional information and clarification. Please provide responses to the enclosed request for additional information within 60 days of the date of this letter. In accordance with 10 CFR 50.30(b), your response must be executed in a signed original under oath or affirmation. Following receipt of the additional information, we will continue our evaluation of your amendment request.

If you have any questions regarding this review, please contact me at (301) 415-1127.

Sincerely,

A handwritten signature in cursive script, appearing to read "Alexander Adams, Jr.", written in dark ink.

Alexander Adams, Jr., Senior Project Manager
Non-Power Reactors and Decommissioning
Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket No. 50-297

Enclosure:
As stated

cc w/enclosure:
See next page

University of Virginia

Docket Nos. 50-62/396

cc:

Department of Environmental Quality
Office of Grants
Management/Intergovernmental
Affairs
629 East Main Street, Sixth Floor
Richmond, Virginia 23219

Mr. Paul E. Benneche, Supervisor
Nuclear Reactor Facility
University of Virginia
c/o Thornton Hall
Charlottesville, Virginia 22903-2442

Dr. William Vernetson
Director of Nuclear Facilities
Department of Nuclear Engineering
Sciences
University of Florida
202 Nuclear Sciences Center
Gainesville, Florida 32611

Dr. Rolan E. Hertel, Director
Neely Nuclear Research Center
Georgia Institute of Technology
900 Atlantic Drive, N.W.
Atlanta, Georgia 30332

Mr. Pedro B. Perez, Associate Director
Nuclear Reactor Program
North Carolina State University
P. O. Box 7909
Raleigh, North Carolina 27695-7909

Office of the Attorney General
101 North 8th Street
Richmond, Virginia 23219

Bureau of Radiological Health
Division of Health Hazards Control
109 Governor Street, Room 916
Richmond, Virginia 23219

Dr. Ralph O. Allen, Chairman
Reactor Decommissioning
Committee
University of Virginia
Environmental Health and
Safety
P.O. Box 3425
Charlottesville, Virginia 22903

REQUEST FOR ADDITIONAL INFORMATION
NORTH CAROLINA STATE UNIVERSITY PULSTAR RESEARCH REACTOR
DOCKET NO. 50-297

1. In addition to the requested change in the Technical Specifications (TSs) allowing beryllium reflectors, you have proposed deleting the requirement in TS 3.1.a. for "a five by five array configuration" in the fuel element geometry. However, you have provided no discussion or justification for this change. If you want to make this change to the TSs, please provide a safety analysis including impacts on reactor operations and on reactor safety including accident analysis.
2. In the discussion of possible radiation damage to the proposed beryllium reflectors, it is stated that they will be visually inspected on the same schedule as the graphite reflectors. However, because the TSs do not require such inspection, please provide information on the current basis for the graphite reflector inspection, including the schedule and the criteria for acceptable performance.

Enclosure