

UNITED STATES
ATOMIC ENERGY COMMISSION
SAVANNAH RIVER OPERATIONS OFFICE
P. O. BOX A
AIKEN, SOUTH CAROLINA

IN REPLY REFER TO:
SP:MDM:cgg

OCT 10 1956

North Carolina State College
Raleigh, North Carolina

Attention: Dr. Carey H. Bostian, Chancellor

Gentlemen:

Pursuant to information contained in Mr. R. C. Blair's letter dated October 4, 1956, and in connection with your work under Access Permit #1122, we are transmitting the necessary personnel clearance forms for those employees requiring "Q" type security clearance. A "Q" clearance is an authorization by the Atomic Energy Commission for access to Secret Restricted Data in the categories specified under the terms of the Access Permit.

In addition to copies of the Personnel Security Questionnaire, Fingerprint Card and Security Acknowledgement Statement, we are also including copies of the Security Termination Statement (AEC Form 136) for your future use. When a cleared individual is terminated or transferred to a position not involving access to Restricted Data, it is necessary to conduct a security termination interview to insure that the person being terminated is aware of his continuing responsibility for safeguarding the classified information to which he has had access. It is also necessary to notify the AEC when an individual has been terminated or transferred to a position not involving access to Restricted Data and the use of AEC Form 136 will accomplish both requirements.

The completed personnel clearance forms should be submitted to this office under a letter of request for "Q" type security clearance referenced to the number of your access permit. One copy of this request letter must be furnished for each individual submitted for clearance.

We are also including a copy of the Atomic Energy Act of 1954 and you were previously furnished copies of the Regulations for Safeguarding of, and Access to, Restricted Data. This media should be used to establish your security program. Your attention is invited to 10 CFR Part 95, Paragraph 95.5 which requires a written statement of your procedures in the safeguarding of Restricted Data and the security education of your employees. It has been our experience that these procedures are a worthwhile addition to the security plan which can be used as an integral part of the security education of your employees by detailing

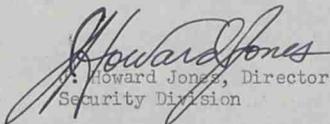
OCT 10 1956

the safeguards to be applied. To assist you in preparing a security plan, we are furnishing a general outline of our concept of a security plan.

Part 95 also contains an instruction to report all losses of documents and materials containing Restricted Data (see paragraph 95.42). It is requested that routine telephone calls be directed to the individual with whom you wish to speak; however, an AEC Duty Officer can be reached around-the-clock by calling Augusta, Georgia 4-6372, Extension No. 3333.

Please feel free to contact this office for any assistance you may require on security matters.

Yours very truly,


Howard Jones, Director
Security Division

Enclosures:

1. Atomic Energy Act of 1954
2. AEC Form 1 - (15)
3. AEC Form 136 (15)
4. AEC Form 15 (15)
5. Instruction Sheet
6. Outline of Security Plan
7. Fingerprint Cards (15)

UNITED STATES
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P. O. BOX A
AIKEN, SOUTH CAROLINA

IN REPLY REFER TO:

OCT 4 1956

North Carolina State College
Raleigh
North Carolina

Attention: Dr. Carey H. Bostian, Chancellor

Gentlemen:

By memorandum dated September 13, 1956, H. L. Price, Director, Division of Civilian Application, Atomic Energy Commission, Washington, D.C., assigned to this Office administration of your Access Permit No. 1122. We welcome the opportunity to assist you in obtaining full benefit under this program.

We appreciate the fact that North Carolina State is no newcomer to the field of atomic energy and that your staff has made contributions in this field through participation in AEC contracts as well as a fully developed educational program.

Since many of your people already have security clearances and since you no doubt have facilities for the storage of classified material, we will probably be able to arrange for early receipt by you of classified information under your access permit.

As a holder of an access permit, however, you will operate under a somewhat different set of rules than you operate under as an AEC contractor. Part 25 of Title 10 of the Code of Federal Regulations governs our mutual obligations under the Civilian Application Program. Part 95 of the same Code concerns security regulations under the program. We are enclosing copies of both Parts 25 and 95 herewith.

Our Security Division will contact you shortly in order to arrange for security clearances of personnel under your permit and will initiate arrangements leading to establishment of an approved security facility in which classified documents may be handled and stored.

*ask
WJP
to
return
one copy
each
for our files*

OCT 4 1956

As soon as you have received your personnel security clearances and your security plan and facilities have been approved by the Savannah River Operations Office Security Division, the Technical Information Service, Oak Ridge, Tennessee, will send you a packet of preliminary information which contains listings and abstracts of classified documents, their cost, and order blanks for purchasing these documents. You will also receive listings and abstracts of all unclassified material which is available. The unclassified material may be secured from the Office of Technical Services, U.S. Department of Commerce, Washington, D.C., at a nominal cost. You will be advised as to other sources of information as they come to our attention.

As your studies in the atomic energy field progress, you may desire to visit certain AEC laboratories or other AEC facilities. Since these facilities contain restricted areas, and because your discussions may involve restricted data, it will be necessary for you to arrange for such visits through this Office. We will be glad to assist you in arranging for such visits, determining if there will be charges involved, and handling the security clearances.

Should you have any questions or desire to contact this office for information concerning matters other than security, please direct your inquiries to--

Mr. Joel V. Levy
Assistant Director for Technical
Technical and Production Division
Savannah River Operations Office
U. S. Atomic Energy Commission
P. O. Box A
Aiken, South Carolina

Mr. Loren T. Palmer, Chief, Industrial Liaison Branch, same address as above, may also be contacted, as required.

On security matters, please contact--

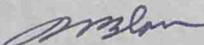
Mr. J. Howard Jones, Director
Security Division
Savannah River Operations Office
U. S. Atomic Energy Commission
P. O. Box A
Aiken, South Carolina

Members of my staff will contact you shortly in connection with putting your access permit into effect. I hope, myself, to be able to visit North Carolina State as opportunity arises in the near future.

OCT 4 1956'

In closing I wish to extend an invitation to you and members of your staff to visit this Office at your earliest opportunity.

Very truly yours,



R. C. Blair
Manager

Enclosures:

1. 10 CFR 25 (2)
2. 10 CFR 95 (2)

U. S. Atomic Energy Commission
Washington 25, D. C.

APPLICATION FOR ACCESS PERMIT

(File in triplicate. Use continuation sheets as necessary)

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 25, application is hereby made for an Access Permit for Restricted Data relating to the civilian uses of atomic energy.

1. Name North Carolina State College
(Use full name of applicant to whom Access Permit is to be issued)

2. Principal business address: North Carolina State College
Raleigh, North Carolina

3. Describe business or occupation: Educational

4. a. If an individual state:

Citizenship: -- Age: --

b. If a corporation or other entity,

(1) check one:

- (a) A Corporation
(b) A Partnership
(c) Other (describe) College

(2) name the State where incorporated or organized:

North Carolina

(3) list name, address and citizenship of each partner, or if a corporation or unincorporated association, list name, address, office held and citizenship of each director and each principal officer:

Name and address	Office Held	Citizenship
<u>Dr. C. H. Bostian</u>	<u>Chancellor</u>	<u>U.S.</u>
<u>N. C. State College, Raleigh</u>		
<u>Mr. J. G. Vann</u>	<u>Business Manager</u>	<u>U.S.</u>
<u>N. C. State College, Raleigh</u>		

- (4) State whether owned, controlled, or dominated by an alien, a foreign corporation, or foreign government, or by another person or corporation so controlled: No

(Answer Yes or No)

If answer is "Yes", furnish details on separate sheet.

- c. State whether applicant is acting as agent or representative with respect to this application, and if so, identify principal and furnish information required under 4 a. and b. with respect to principal: No

(Answer Yes or No)

If answer is "Yes", furnish information about principal on a separate sheet.

5. Total number of full-time employees: 1,431
6. Familiarity with atomic energy technology (describe briefly extent of knowledge of classified and unclassified data and any work previously done in this field including work under AEC contract or subcontract):

About fifty staff members have had special training in some phase or phases of nuclear technology. State College has had a number of AEC contracts since 1946. Not less than twenty staff members have "Q" clearance.

7. If the application is for Confidential Restricted Data, state potential use in applicant's business, profession or trade: Principal uses for information of Local Safety and Health Committee for Nuclear Reactor and Radioisotopes, and for information of staff conducting research with Nuclear Reactor and Radioisotopes.

8. If Secret Restricted Data is requested, state by number and title the categories of information listed in Appendix "A" to 10 C.F.R. 25 to which access is requested and detailed reasons why the applicant needs access to each category of such information.

<u>Category Number and Title</u>	<u>Reasons why it is needed</u>
<u>C-4, C-7</u>	<u>Research projects presently underway.</u>
<u>C-41 and C-70</u>	<u>Specifically for Safety and Health Committee.</u>
<u>C-20</u>	<u>To keep abreast of new sources of nuclear energy.</u>
<u>C-46, C-37, C-25, C-34, C-40,</u>	<u>Immediately justifiable on the grounds</u>
<u>C-80, C-81</u>	<u>of need in designing and operating State College Reactor.</u>
<u>C-28</u>	<u>Electrical engineering - Research.</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

9. Estimated number of individual AEC clearances which will be required:

"L": Probably no more than
6 per year.
For access to Confidential
Restricted Data

"Q": Probably no more than
6 per year.
For access to Secret as well as
Confidential Restricted Data

10. Principal location of the applicant at which Restricted Data will be used:

North Carolina State College

Raleigh, North Carolina

I CERTIFY that the statements made in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Signed: North Carolina State College
(Applicant)

By: Carey H. Boston
↓
August 29, 1956
(Title, if any)

Date: _____

WARNING

18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749, makes it a criminal offense to make a wilfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

NORTH CAROLINA STATE COLLEGE
OF THE
UNIVERSITY OF NORTH CAROLINA
RALEIGH

SCHOOL OF ENGINEERING

J. H. LAMPE, DEAN

April 17, 1956

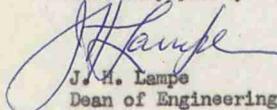
Dr. S. R. Sapirie, Manager
Oak Ridge Operations Office
Oak Ridge, Tennessee

Dear Dr. Sapirie:

This is to certify that Dr. Raymond L. Murray, formerly Deputy Director of the Raleigh Reactor at North Carolina State College, is now serving temporarily in the capacity as Acting Director due to the resignation of Dr. Clifford K. Beck.

Dr. Murray will now be the official contact between the College and the Atomic Energy Commission with respect to Reactor activities, fuel, equipment, etc. He is aware of his responsibilities and duties with respect to reports to be sent to the Commission each month giving a detailed account on the nuclear fuel in our possession.

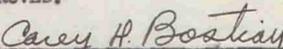
Sincerely yours,

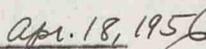

J. H. Lampe
Dean of Engineering

JHL:H

cc: Dr. Herman Roth

APPROVED:


Carey H. Bostian
Carey H. Bostian, Chancellor


Apr. 18, 1956
Date

C
O
P
Y

UNITED STATES
ATOMIC ENERGY COMMISSION
Washington, D. C.

March 30, 1956

Mr. William C. Friday, Acting President
University of North Carolina
Chapel Hill, North Carolina

Dear Mr. Friday:

Over the period of the past several weeks we have been in touch with Dr. Clifford Beck about the possibility of his coming with the Commission for a year to accept administrative and technical responsibility in a special assignment to help us establish regulatory codes and specifications for the design and safe operation of atomic energy facilities and to evaluate the hazards aspects of specific facilities proposed to be constructed either by AEC or by private enterprise under license.

Protection of the public health and safety, as you know, is a controlling consideration in the licensing of atomic energy facilities. In order for the Commission to discharge its regulatory responsibilities in this field, and to encourage and stimulate the growth of the private atomic energy industry, it is necessary that safety standards and codes be established for the design, construction, and operation of nuclear facilities and procedures established for the evaluation of each proposed facility against such criteria and standards. We attach such importance to this function that several months of careful deliberation have been given to the selection of a person qualified to assist us in this field.

Dr. Beck's outstanding qualifications and experience prompted us to approach him for this important assignment. He would serve as Scientific Advisor to the Director of our Division of Civilian Application.

Dr. Beck has indicated that the way has been tentatively cleared for him to accept the assignment and I am writing to request, on behalf of the Commission, that he be granted leave from the University for this purpose. The University's cooperation in granting this request will be greatly appreciated by the Commission. Subject to your approval, it has been tentatively agreed with Dr. Beck that his assignment with the Commission could begin about June 1 or as soon thereafter as would be agreeable to all concerned.

If the proposed arrangement with Dr. Beck is acceptable to you, we would like to issue an appropriate press announcement along the lines of the enclosed copy. We would welcome any suggestions you would care to offer with respect to the text of the announcement. I understand the University would desire to make a similar announcement. If agreeable with you, we would plan to distribute the press announcement at 9:00 a.m. Tuesday, April 3, for immediate release which would enable the announcement to be in the afternoon papers on that date.

Sincerely yours,

K. E. Fields
General Manager

Enclosure:
Draft Press Release

UNITED STATES
ATOMIC ENERGY COMMISSION
CHICAGO OPERATIONS OFFICE
P. O. Box 59
LEMONT, ILLINOIS



March 7, 1956

Dean J. H. Lampe
School of Engineering
North Carolina State College
Raleigh, North Carolina

Dear Dean Lampe:

I am enclosing a revised draft of the agreement between North Carolina State College and the Commission covering the nuclear training course. In the hope that this revision will be acceptable to the College, I have taken the liberty of executing three copies.

Virtually the only change of significance from the document as previously discussed with you has been the addition of provisions to cover the acquisition of equipment. These provisions will be found in Article IV, Section 2, and in the Appendix. The payment for the conduct of the course itself is stated in a lump sum while the funds for acquisition of equipment, etc., are provided on an actual cost basis not to exceed \$15,000. The Government under this language takes title to the equipment and gives the contractor the right to purchase the property upon termination of the work. A statement concerning restoration of contractor premises has been added as Section 3 of Article IV.

Appendix A provides that the property to be acquired shall be approved by the Commission. This letter constitutes Commission approval of the acquisition of the items listed in the attachment entitled "Laboratory Equipment" furnished with your letter to me dated January 27, 1956, totaling \$15,000. Should you find it necessary to vary from that listing, it is requested that you notify us in advance and secure authorization for purchase of any items which were not contemplated at the time of your January 27 letter.

The lump sum amount of \$42,600 shown in Article IV, Subsection 1a, is arrived at by taking the total budget furnished with your letter of January 27, deducting the \$15,000 for laboratory equipment, and adding \$750 to cover the additional travel which has been requested by this office to bring the school faculty to the Argonne National Laboratory prior to the beginning of the first course.

Dean J. H. Lampe

- 2 -

March 7, 1956

If this revised draft is acceptable to the College, it is requested that you have the three executed copies signed for the College and return two of the fully executed copies. Six unsigned copies are furnished for your retention. Please let us know if you desire conformed copies of the contract.

Very truly yours,

David Saxe, Director
Development Contracts Division

Enclosure:
Contract AT(11-1)-387, 3 signed & 6 unsigned copies

UNITED STATES
ATOMIC ENERGY COMMISSION

In Reply
Refer to: OR:RMR

Oak Ridge, Tennessee
January 26, 1956

Dr. J. H. Lampe
Dean of Engineering
North Carolina State College
Raleigh, North Carolina

Subject: RELATIONSHIPS WITH THE COMMISSION

Dear Dr. Lampe:

Reference is made to your letter of January 9, 1956, concerning the visit of Dr. Frederick P. Pike and the question of whether another channel of communication should be set up between the Commission and the North Carolina State College to cover the safety and health activities at your institution.

Dr. Pike's visit was arranged for, and he obtained general information on health physics and also some data on materials suitable for homogeneous reactors.

Concerning the matter of channels of communication, we should like to point out that all contracts between North Carolina State College and the Commission are with the College and not with individuals. Similarly, all licenses issued by the Commission to NCSC are issued to the College and not to individuals. Research contracts and the reactor contract, AT-(40-1)-1032, are usually entered into by the Commission on the basis that certain named personnel on the staff of the College would head up and direct the work under the contract.

The reactor contract followed this precedent, and Dr. Clifford A. Beck was designated to head up the work. Similarly, on Contract No. AT-(40-1)-1380, Dr. Pike was designated as the Project Leader. More or less by custom, much of the day to day administration of such contracts has been carried out with the particular Project Leader concerned. However, you will note that "proposals" and contract commitments have been either endorsed or signed by College officials.

January 26, 1956

On the Commission side, each of your research contracts for less than \$100,000 are signed by my delegation of authority to the Director, Research and Development Division (present incumbent Herman M. Roth). On day to day matters, administration is carried out by delegation to the Chief of an appropriate branch of the Research and Development Division, i.e., Research Branch, if in Physical Science, or Biology Branch, if in Biological Science. The reactor contract was signed by me, and its administration delegated to the Research and Development Division. For our part, we would prefer to have one person designated by the College as a contact on each contract for routine matters, but have no objection to addressing our correspondence to whomever the College may designate.

The College was also recently issued a license to have a facility and possess 1,000 grams of U-235, and Commission requirements on operations under this license are stated therein. With respect to licenses, as differentiated from contracts, correspondence should be directed to Mr. Harold L. Pries, Director, Division of Civilian Application, U. S. Atomic Energy Commission, 1901 Constitution Avenue, N. W., Washington 25, D. C.

It is expected that we shall be directed to negotiate a contract with North Carolina State College to cover the loan of fissionable materials. It is probable that the loan of this material will be contingent upon having on your staff personnel who, in the Commission's estimate, are capable of carrying out the desired training and research program. This person will be designated by the title of "Project Director" or equivalent. Under present plans, the Manager, Oak Ridge Operations, would sign such a contract and would delegate the administration to the Director, Research and Development Division.

You also have a General Authorization for Use of Radioisotopes No. 34310. Upon expiration of this General Authorization, we expect that a license will be issued for future use of by-product material. As a first step in this direction, the former Isotopes Division of the Oak Ridge Operations Office is now the Isotopes Extension of the Division of Civilian Application. However, until you are notified otherwise, you should continue your communications to the Isotopes Division, Oak Ridge, Tennessee.

It is in connection with this General Authorization for Use of Radioisotopes that the Safety and Health Committee was established with Dr. Pike as Chairman. The General Authorization was issued

January 26, 1956

on the basis that the Chairman for the Committee could act for the University on matters of safety and health pertaining to the possession and use of radioisotopes up to atomic mass 83. We consider this Committee as an important staff organization to the College, and its authority relative to reactor operations should be clarified for our records.

We understand that you have called upon Dr. K. Z. Morgan, Oak Ridge National Laboratory, to serve as Consultant to this Committee. We do not know of a better one, but it should be pointed out that Dr. Morgan is a Union Carbide Nuclear Company employee and speaks only in terms of his professional opinion. The Commission's safety and health regulations are published in the Federal Register and only certain designated officials are authorized to interpret these regulations.

We hope the above clarifies the matter. If you need any assistance or information on these matters, Dr. Roth will be glad to cooperate with you if you will have Dr. Pike or any other designated person of your staff write to him.

Very truly yours,

S. R. Sapirie
Manager
Oak Ridge Operations

cc: M. H. Woodruff
C. H. Bostian, NCSC ✓

1956 JAN 26 PM 2:14

OAK RIDGE OPERATIONS
D E V E C

Pres. & Sec. Operations DISSEMINATED

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UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON 25, D. C.

JAN 27 1956

IN REPLY REFER TO:

CAL:ERF

Dr. Carey H. Bostian
Chancellor
North Carolina State College
Raleigh, North Carolina

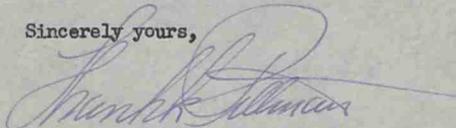
Dear Dr. Bostian:

This is to acknowledge your letter of January 12, 1956, forwarding a request from Dr. Beck dated January 6, 1956, for modification of license R-1 to permit possession of 1,150 grams of U-235 instead of 1,000 grams as stated in the license because of an increase in critical mass for the Raleigh Research Reactor.

It is noted in Dr. Beck's letter that reports describing changes in the reactor, the critical mass and operating procedures will be submitted to the Commission before the request for delivery of the reprocessed fuel is made to Oak Ridge.

We will proceed as soon as possible with the necessary steps for amendment of your license and authorization to Oak Ridge to increase your allocation after these reports are received and evaluated.

Sincerely yours,



H. L. Price
Director
Division of Civilian Application

cc: Dr. H. M. Roth, OROO