

January 27, 2000

The Honorable Richard W. Riley
Secretary of Education
U.S. Department of Education
Washington, D.C. 20202

Dear Secretary Riley:

In response to your November 15, 1999 letter, I am enclosing the Nuclear Regulatory Commission's (NRC's) Fiscal Year 1999 Annual Federal Performance Report on Executive Agency Actions to Assist Historically Black Colleges and Universities (HBCU). The enclosed report reflects the Commission's continuing efforts to assist HBCUs through our Faculty and Student Research Participation Program, which is conducted through a Cooperative Agreement with the Oak Ridge Institute for Science and Education. As requested, the NRC's annual report was also forwarded to Ms. Catherine LeBlanc, Executive Director of the White House Initiative on Historically Black Colleges and Universities, U.S. Department of Education, and Ms. Jennifer Kron, Program Examiner, Education Branch, Office of Management and Budget.

If you have questions regarding this report or the agency's HBCU Program, please contact Mrs. Irene P. Little, Director, Office of Small Business and Civil Rights, at (301) 415-7380 or ipl@NRC.gov.

Sincerely,

/RA/

Richard A. Meserve

Enclosures: As stated

cc: Ms. Catherine LeBlanc, Edu/HBCU
Ms. Jennifer Kron, OMB

Ms. Catherine W. LeBlanc
 Executive Director, White House
 Initiative on Historically Black
 Colleges and Universities
 U.S. Department of Education
 1990 K Street, NW
 Washington, DC 20009-5120

Dear Ms. LeBlanc:

In response to your November 10, 1999, letter and the November 15, 1999, letter from the Honorable Richard Riley, Secretary of Education, enclosed is the Nuclear Regulatory Commission's Fiscal Year 1999 Annual Federal Performance Report on Executive Agency Actions to Assist Historically Black Colleges and Universities (HBCU). The enclosed report reflects our Agency's continuing efforts to assist HBCUs through our Faculty and Student Research Participation Program. This program is conducted through a Cooperative Agreement with the Oak Ridge Institute for Science and Education. As requested, the Agency's annual report was also forwarded to Ms. Jennifer Kron, Program Examiner, Education Branch, Office of Management and Budget.

If you have questions regarding this report or the Agency's HBCU Program, please contact Mrs. Irene P. Little, Director, Office of Small Business and Civil Rights, at (301) 415-7380 or ipl@NRC.gov.

Sincerely,

Richard A. Meserve

Enclosures: As stated

cc: Ms. Jennifer Kron, OMB

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This correspondence addresses policy issues previously resolved by the Commission, transmits factual information, or restates Commission policy.

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**U.S. NUCLEAR REGULATORY COMMISSION
ANNUAL FEDERAL PERFORMANCE REPORT
FISCAL YEAR 1999
HISTORICALLY BLACK COLLEGES AND UNIVERSITIES (HBCUs)**

A. EXECUTIVE SUMMARY

Goals and Objectives

The Nuclear Regulatory Commission's (NRC's) HBCU Faculty and Student Research Participation Program is conducted through a Cooperative Agreement with the Oak Ridge Institute for Science and Education. NRC's program enables HBCU faculty and students to conduct technical research and development activities on campus and at Department of Energy (DOE) facilities where a substantial portion of NRC's research and technical assistance activities is performed.

The principal goals of this program are to enhance academic studies in science, mathematics, and engineering and to increase the number of available scientists, engineers, and related professionals. Participants concentrate on research and development work that directly support NRC's mission.

Exemplary HBCU Programs

During this fiscal year, the program continued to focus on assigning HBCU faculty, graduates, and undergraduates to NRC technical assistance projects at DOE laboratories, where a majority of this work is performed. A total of 14 participants performed work at 5 different DOE laboratories, and an additional 5 participants were assigned to on-campus research projects. Three of these projects will continue into Fiscal Year 2000 and are scheduled for completion in June 2000.

NRC's program continues to provide HBCU students and faculty opportunities to learn state-of-the-art research techniques and to be exposed to research that is conducted in a nationally recognized laboratory. Examples of projects where participants had hands-on participation include: (1) investigating issues associated with implementing wireless measurement and control systems in harsh environmental conditions, particularly with nuclear power plants; (2) applying virtual reality in dealing with hazardous waste; and (3) wavelet processing of ultrasonic signals backscattered from coarse-grained materials.

In conjunction with an on-campus research project, one participant presented a paper¹ at the SPECTRUM International Conference on Decommissioning and Decontamination and on Nuclear Hazardous Waste Management. The paper was published in the proceedings of the SPECTRUM conference. Another paper² was presented by this same participant at the Inter-American Congress of Chemical Engineering.

Total HBCU Awards and Comparisons to Previous Fiscal Year

During Fiscal Year 1999, a total of \$213,740 was available for the HBCU Program. The NRC provided \$189,161 of the total amount available to 19 recipients (12 faculty and 7 students). The remaining \$24,579 will be expended during Fiscal Year 2000 as work continues for three on-campus research projects that were initiated in Fiscal Year 1999. For Fiscal Year 1998, NRC provided a total of \$227,862 to 24 recipients (16 faculty and 8 students).

B. SUMMARY OF TOTAL AGENCY AWARDS BY CATEGORY

Attachment A presents the total awards (i.e., amount expended).

C. TABLE OF AGENCY AWARDS TO HBCUs, BY INSTITUTION AND CATEGORY

Attachment B presents a listing of NRC awards to each HBCU by category.

D. AWARDS TO HBCUs AND NARRATIVE INFORMATION

Attachment C is NRC's HBCU recipient list, which includes their major field of study, location of research project, and award amount.

ENCLOSURE 1

¹ *Development and Validation of Ion-Exchange Phase-Equilibrium Model for Sorption of Pb and Cs Mixtures on Zeolitized Volcanic Tuff*

² *Modeling Sorption of Mixtures of Radionuclides on Zeolited Volcanic Tuff and Clay Minerals*

SUMMARY OF TOTAL AWARDS TO HBCUs, BY CATEGORY: FY 1999

1. U. Nuclear Regulatory Commission
AGENCY

2. Irene P. Little /RA/ Director, Office of Small Business and Civil Rights
NAME/SIGNATURE OF REPRESENTATIVE TITLE

3. TOTAL UNIVERSE OF FUNDS FOR INSTITUTIONS OF HIGHER EDUCATION (IHEs)
\$5,327,862

CATEGORY	AWARDS TO IHE+	AWARDS TO HBCUs*	Awards to HBCUs as % of total Awards to IHE
1. Research & Development	\$5,327,862	\$189,161	3.5%
2. Program Evaluation			
3. Training			
4. Facilities and Equipment			
5. Fellowships, Traineeships, Internships, Recruitment, and IPAs			
6. Student Tuition Assistance, Scholarships, and Other Aid			
7. Direct Institutional Subsidies			
8. Third Party Awards			
9. Private Sector Involvement			
10. Administrative Infrastructure			
11. Other			
Total	\$5,327,862	\$189,161	3.5%

Richard A. Reserve, Chairman, U.S. Nuclear Regulatory Commission
Agency Head (Typed)

/RA/ Richard A. Meserve, Chairman

Agency Head (Signature)

+IHE = Institutions of Higher Education

*HBCUs = Historically Black Colleges and Universities

ENCLOSURE 1, ATTACHMENT A

					FEDERAL		
					FY 1999		
STATE/INSTITUTION	R&D	PE	TRAINING	F&E	FELLOWS	SFA	DIS
ALABAMA							
ALABAMA A&M							
ALABAMA STATE							
BISHOP STATE COMM.							
CARVER CAMPUS							
CONCORDIA COLLEGE							
FREDD STATE TECH							
GADSDEN STATE							
LAWSON STATE							
MILES COLLEGE							
OAKWOOD COLLEGE							
SELMA UNIVERSITY							
J.F. DRAKE TECH							
STILLMAN COLLEGE							

TALLADEGA COLLEGE							
TRENHOLM STATE TECH							
TUSKEGEE UNIVERSITY	6,121						
ARKANSAS							
ARKANSAS BAPTIST							
PHILANDER SMITH							
SHORTER COLLEGE							
U. OF ARKANSAS @ PB							
DELAWARE							
DELAWARE STATE							
DISTRICT OF COLUMBIA							
HOWARD UNIVERSITY	2,776						
UNIV. OF D. C.							

INTERDENOMINATIONAL							
THEOLOGICAL CENTER							
MOREHOUSE COLLEGE	10,714						
MOREHOUSE MEDICAL							
MORRIS BROWN							
PAINE COLLEGE							
SAVANNAH STATE							
SPELMAN COLLEGE							
KENTUCKY							
KENTUCKY STATE							
LOUISIANA							
DILLARD UNIVERSITY							
GRAMBLING STATE							
SOUTHERN U. & A&M	954						
SOUTHERN/BATON ROUGE							
SOUTHERN/NEW ORLEANS							
SOUTHERN/SHREVEPORT							
XAVIER UNIVERSITY	5,192						
MARYLAND							

BOWIE STATE							
COPPIN STATE							
MORGAN STATE	15,993						
U. OF MARYLAND ES							
FEDERAL AGENCY							
STATE/INSTITUTION	R&D	PE	TRAINING	F&E	FELLOWS	SFA	DIS
MICHIGAN							
LEWIS COLLEGE OF BUS.							
MISSISSIPPI							
ALCORN STATE							

COAHOMA JR. COLLEGE							
HINDS COMM. COLLEGE							
JACKSON STATE	12,400						
MARY HOLMES							
MISSISSIPPI VALLEY							
RUST COLLEGE							
TOUGALOO COLLEGE							
MISSOURI							
HARRIS STOWE STATE							
LINCOLN UNIVERSITY							
NORTH CAROLINA							
BARBER-SCOTIA							
BENNETT COLLEGE	11,373						
ELIZABETH CITY STATE							
FAYETTEVILLE STATE							
JOHNSON C. SMITH							
LIVINGSTONE COLLEGE	915						
N. C. A&T STATE	34,153						
N. C. CENTRAL							
ST. AUGUSTINE							

FEDERAL AGENCY							
STATE/INSTITUTION	R&D	PE	TRAINING	F&E	FELLOWS	SFA	DIS
PENNSYLVANIA							
CHEYNEY UNIV.							
LINCOLN UNIV.	1,038						
SOUTH CAROLINA							
ALLEN UNIVERSITY							
BENEDICT COLLEGE							
CLAFLIN COLLEGE							
CLINTON JR. COLLEGE							
DENMARK TECH.							
MORRIS COLLEGE							
S. C. STATE UNIV.	47,286						
VOORHEES COLLEGE							
TENNESSEE							

FISK UNIV.							
KNOXVILLE COLLEGE							
MORRISTOWN CAMPUS							
LANE COLLEGE							
LEMOYNE-OWEN							
MEHARRY MEDICAL							
TENNESSEE STATE							
TEXAS							
HUSTON-TILLOTSON							
JARVIS CHRISTIAN							
PAUL QUINN COLLEGE							
PRAIRIE VIEW A&M							
SAINT PHILLIP'S							
SOUTHWESTERN CHRIST.							
TEXAS COLLEGE							
TEXAS SOUTHERN							
WILEY COLLEGE							

FEDERAL AGENCY							
STATE/INSTITUTION	R&D	PE	TRAINING	F&E	FELLOWS	SFA	DIS
VIRGINIA							
HAMPTON UNIV.							
NORFOLK STATE							
SAINT PAUL'S							
VIRGINIA STATE	4,429						
VIRGINIA UNION							
WEST VIRGINIA							
BLUEFIELD STATE							
W. VIRGINIA STATE	12,289						
U.S. VIRGIN ISLANDS							
UNIV. OF THE V. I.							

GRAND TOTAL								
CATEGORIES:								
R&D	RESEARCH AND DEVELOPMENT							
PE	PROGRAM EVALUATION							
	TRAINING							
F&E	FACILITIES AND EQUIPMENT							
FELLOWS	FELLOWSHIP, RECRUITMENT, IPA							
SFA	STUDENT FINANCIAL ASSISTANCE							
DIS	DIRECT INSTITUTIONAL SUBSIDIES							
TPA	THIRD PARTY AWARDS							
PSI	PRIVATE SECTOR INVOLVEMENT							
AI	ADMINISTRATIVE INFRASTRUCTURE							

RECIPIENT	*(S)	*(F)	HBCU	FIELD OF STUDY	**RESEARCH LOCATION	AWARD AMOUNT		
Burdette, Deborah Ms.	1		West Virginia State College	Elec Engineering	ORNL	\$5,389		
Johnson-Mayo, Ifayet Ms.	1		Tuskegee U.	Biology	NBL	6,121		
Lewis, Jared Mr.	1		Xavier U. of Louisiana	Computer Science	LANL	5,192		
Mayo, Jessie	1		Virginia State U.	Physics	NBL	4,429		

McFarlane, Quaneshala Ms.	1	Florida A&M U.	Computer Science	LANL	5,778	
Ward, Eric	1	Lincoln U./U. of VA	Electrical Engineering	SRTC	1,038	
Williams, Jonathan	1	Southern University	Biology	NBL	954	
Basavaraju, Sekhara Dr.	1	Bennett College	Biology	ORNL	11,373	
Gobovic, Desa Dr.	1	West Virginia State College	Elec Engineering	ORNL	6,900	
Isa, Saliman Dr.	1	South Carolina State U.	Elec Engineering	ORNL	12,412	
Johnston, R. Dr.	1	Jackson State U.	Physics	PNNL	12,400	
Jones, Andrew Dr.	1	Morehouse College	Math	ORNL	10,714	
Lari, Saeed Dr.	1	South Carolina State U.	Eng Technology	+On Campus	15,307	
Lee, Seong Dr.	1	Morgan State U.	Engineering	+On Campus	15,993	
Rao, Gopala	1	Howard University	Chemical Engineering	On Campus	2,776	
Sabaratnam, Saskikala	1	Livingstone College	Biology	PNNL	915	
Song, Yong Dr.	1	NC A&T State U.	Elec Engineering	On Campus	34,153	
Taukder, Niranjan Dr.	1	Clark Atlanta U.	Engineering	SRTC	17,750	
Whitney, Tom Dr.	1	South Carolina State U.	Eng Technology	+On Campus	19,567	
TOTAL PARTICIPANTS	7	12			\$189,161	
*S: Student; F: Faculty						
**BNL: Brookhaven National Laboratory			ORNL: Oak Ridge National Laboratory			
INEL: Idaho National Engineering Laboratory			PNL: Pacific Northwest Laboratory			
LANL: Los Alamos National Laboratory			SNL: Sandia National Laboratories			
LLNL: Lawrence Livermore National Laboratory			SRTC: Savannah River Technology Center			
NBL: New Brunswick Laboratory			SRS: Savannah River Site			
+Project will continue into FY 2000.						

