



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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.

Richard A. Meserve

Enclosures: As stated

cc: Ms. Catherine LeBlanc, Edu/HBCU

Ms. Jennifer Kron, OMB

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

Development and Validation of Ion-Exhange 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
	ACEN	CV	

2. Irene P. Little Many Manuel SIGNATURE OF REPRESENTATIVE

<u>Director, Office of Small Business and Civil Rights</u>
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%

<u>Richard A. Reserve, Chairman, U.S. Nuclear Regulatory Co</u>	mmission
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Agency Head (Typed)

Agency Head (Signature)

+IHE = Institutions of Higher Education

^{*}HBCUs = Historically Black Colleges and Universities

FEDERAL AGENCY AWARDS TO INSTITUTIONS FY 1999

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FLORIDA MEMORIAL	0,770			·			 	 				
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ALBANY STATE		·	T]		1	<u> </u>		1		
CLARK ATLANTA U.	17,750				<u> </u>		 		 			17,750
FORT VALLEY STATE					- 			†	<u> </u>			17,730
INTERDENOMINATIONAL				••			· · · · · · · · · · · · · · · · · · ·			·		
THEOLOGICAL CENTER												j
MOREHOUSE COLLEGE	10,714											10,714
MOREHOUSE MEDICAL										†		
MORRIS BROWN												***************************************
PAINE COLLEGE								Ī				
SAVANNAH STATE												
SPELMAN COLLEGE												
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SOUTHERN U. & A&M	954		 		+		 			 		954
SOUTHERN/BATON ROUGE			 				1			-		954
SOUTHERN/NEW ORLEANS			 		 				<u> </u>			
SOUTHERN/SHREVEPORT					 		 					
XAVIER UNIVERSITY	5,192									 		5,192
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MARYLAND							·					
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MORGAN STATE	15,993										-	15,993
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HINDS COMM. COLLEGE												
JACKSON STATE	12,400				<u> </u>	· · · · · · · · · · · · · · · · · · ·	 		 			12,40
MARY HOLMES							1	<u> </u>	 			12,40
MISSISSIPPI VALLEY			† <u>:-</u>						<u> </u>			
RUST COLLEGE												
TOUGALOO COLLEGE												
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NORTH CAROLINA												
BARBER-SCOTIA											I	
BENNETT COLLEGE	11,373											11,37
ELIZABETH CITY STATE							-					··
FAYETTEVILLE STATE							ļ <u>.</u>					-
JOHNSON C. SMITH								<u> </u>				
LIVINGSTONE COLLEGE N. C. A&T STATE	915		<u> </u>					ļ		<u> </u>		91
N. C. CENTRAL	34,153									ļ		34,15
ST. AUGUSTINE							<u> </u>	ļ	ļ. <u></u>			
SHAW UNIVERSITY			 									
WINSTON-SALEM STATE								 	 	-		
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MORRIS COLLEGE												
S. C. STATE UNIV.	47,286										<u> </u>	47,286
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HUSTON-TILLOTSON											T	
JARVIS CHRISTIAN												
PAUL QUINN COLLEGE												*
PRAIRIE VIEW A&M												
SAINT PHILLIP'S												· · · · · · · · · · · · · · · · · · ·
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STATE/INSTITUTION	H&D	PE	TRAINING	F&E	FELLOWS	SFA	DIS	TPA	PSI	Al	*OTHER	TOTALS
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/IRGINIA STATE	4,429		-		1							4,429
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\$189,161

\$189,161

CATEGORIES:

R&D

RESEARCH AND DEVELOPMENT

PΕ **PROGRAM EVALUATION**

TRAINING

F&E **FELLOWS** **FACILITIES AND EQUIPMENT**

FELLOWSHIP, RECRUITMENT, IPA STUDENT FINANCIAL ASSISTANCE

SFA DIS

DIRECT INSTITUTIONAL SUBSIDIES

TPA

THIRD PARTY AWARDS

PSI ΑI

PRIVATE SECTOR INVOLVEMENT

ADMINISTRATIVE INFRASTRUCTURE

HBCU PARTICIPANT LIST FISCAL YEAR 1999

RECIPIENT	*(S)	*(F)	нвси	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
Talukder, 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 L	_ aboratory			ORNL: Oak Ridge Natio	nal Laboratory	
INEL: Idaho National Enginee	ering Labo	ratory		PNL: Pacific Northwest	Laboratory	
LANL: Los Alamos National L				SNL: Sandia National La	aboratories	
LLNL: Lawrence Livermore N	,	aborato	ry	SRTC: Savannah River	Technology Center	
NBL: New Brunwwick Labora	atory			SRS: Savannah River S	ite	
+Project will continue into F	Y 2000.					
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