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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DEDM RF J. Blaha, OEDO
EDO RF P. Bird, HR

K Greene, OEDO

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-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>U. Nuclear Regulatory Commission</u> AGENCY

2. <u>Irene P. Little /RA/</u> <u>Director, Office of Small Business and Civil Rights</u> 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
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			
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

ENCLOSURE 1, ATTACHMENT A

^{*}HBCUs = Historically Black Colleges and Universities

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BISHOP STATE COMM.							
CARVER CAMPUS						<u> </u>	
CONCORDIA COLLEGE							
FREDD STATE TECH							
GADSDEN STATE	_	,					
LAWSON STATE							
MILES COLLEGE							
OAKWOOD COLLEGE							<u></u>
SELMA UNIVERSITY							<u></u>
J.F. DRAKE TECH							
STILLMAN COLLEGE					<u> </u>	<u>「</u> '	<u></u>

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TALLADEGA COLLEGE				
TRENHOLM STATE TECH				
TUSKEGEE UNIVERSITY	6,121			
ARKANSAS				
ARKANSAS BAPTIST				
PHILANDER SMITH				
SHORTER COLLEGE				
U. OF ARKANSAS @ PB				
DELAWARE				
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DELAWARE STATE				
DISTRICT OF COLUMBIA				
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HOWARD UNIVERSITY	2,776			
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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						
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MISSISSIPPI	+		-		-		
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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			1		
FAYETTEVILLE STATE			1		
JOHNSON C. SMITH			1		
LIVINGSTONE COLLEGE	915		1	'	
N. C. A&T STATE	34,153				<u> </u>
N. C. CENTRAL					
ST. AUGUSTINE					

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SHAW UNIVERSITY						
WINSTON-SALEM STATE						
OHIO						
CENTRAL STATE						
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LANGSTON UNIV.						
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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						<u> </u>
VOORHEES COLLEGE				1			

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FISK UNIV.							
KNOXVILLE COLLEGE							
MORRISTOWN CAMPUS							
LANE COLLEGE							
LEMOYNE-OWEN							
MEHARRY MEDICAL							
TENNESSEE STATE							
TEXAS							
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HUSTON-TILLOTSON		<u> </u>					
JARVIS CHRISTIAN		<u> </u>					
PAUL QUINN COLLEGE							
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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									
			\$189,161						
CATEGORIES:									
R&D		RES	EARCH AND DEVEL	OPMENT					
PE		PRO	GRAM EVALUATION	1					
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Johnson-Mayo, Ifayet Ms.	1	Τυ	uskegee U.	Biology		<u>N</u>	NBL	6,121	
Lewis, Jared Mr.	1	X:	(avier U. of Louisiana	Comput	iter Science	<u> </u>	ANL	5,192	

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7 12 South Carolina State U. Eng Technology +On Campus	Talukder, Niranjan Dr.		1	Clark Atlanta U.	Engineering		05
7 12 ORNL: Oak Ridge National Laboratory PNL: Pacific Northwest Laboratory SNL: Sandia National Laboratories SRTC: Savannah River Technology Center SRS: Savannah River SRS: Savannah Riv	Whitney, Tom Dr.		_	South Carolina State U.	Eng Technology		25
	TOTAL PARTICIPANTS	7	12			\$189,16	
	*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		
+Project will continue into FY 2000.	NBL: New Brunwwick Laboratory				SRS: Savannah River Site		
+Project will continue into FY 2000.							
	+Project will continue into FY 2000.						











