

LaTOYA MYLES

July 26, 2004

David Turner
Federal Energy Regulatory Commission
Office of Energy Projects
888 First Street, NE
Washington, DC 20426

**RE: DOCKET No. AD04-4-000, NOTICE REQUESTING APPLICATIONS FOR
PANEL MEMBER LIST FOR HYDROPOWER LICENSING STUDY
DISPUTE RESOLUTION**

Dear David Turner:

Please accept my application for a resource position on the Hydropower Licensing Study Dispute Resolution third panel member (TPM) list. I was excited to read about this opportunity on the Federal Energy Regulatory Commission (FERC) website, and I am confident that my education and expertise coincide with the Commission's qualifications for a TPM appointment in the Aquatic Resources: Water Quality and Aquatic Resources: General technical areas.

My educational background in the aquatic research arena has dealt primarily with water quality and aquatic chemistry issues. I hold a Bachelor of Science in chemistry as well as a Bachelor of Science in biology from Alcorn State University. The rigorous curricula in both concentrations included biochemistry, quantitative analysis, microbiology, and organic chemistry. I applied concepts from these foundational courses during a cooperative education experience at Entergy, Inc.'s Grand Gulf Nuclear Station in Port Gibson, MS. As a chemistry technician, I was responsible for the daily monitoring, testing, and trending of various water quality parameters, including pH, salinity, conductivity, and turbidity. One of my key tasks was to make the daily biocide addition into the plant effluent. Due to National Pollutant Discharge Elimination System (NPDES) guidelines, a sodium hypochlorite (NaOCl) injection into the system was necessary to prevent microbial fouling of plant hardware and maintain peak energy

NOAA Atmospheric Turbulence & Diffusion Division
456 S. Illinois Avenue, P.O. Box 2456
Oak Ridge, TN 37831-2456

LaToya.Myles@noaa.gov
P: (865) 576-0452
F: (865) 576-1327

production efficiency. My duty was to ensure the security of plant blowdown, pump NaOCl into the effluent, and test grab samples for NaOCl concentrations. During my tenure at Grand Gulf, I was heavily involved in the day-to-day activities of the chemistry department. As a cooperative education student, I was exposed to the integral networking between departments that allowed the facility to operate in a manner consistent with U.S. Nuclear Regulatory Commission (NRC) mandates. The experience at Grand Gulf propelled my interest in environmental chemistry, which became the research focus for my graduate studies. While pursuing a doctoral degree in environmental science at Florida A&M University, my coursework has included aquatic toxicology, environmental microbiology, environmental chemistry, sources of environmental pollution, environmental policy and risk management, radiochemistry, ecology, and climate change. During my first two years as a graduate student, I received the U.S. Environmental Protection Agency (EPA) Culturally Diverse Academic Institution (CDAI) Science-To-Achieve-Results (STAR) fellowship. This grant allowed me to pursue a research project concerning irradiation as a method of reducing levels of eutrophic water nutrients below Clean Water Act and NPDES standards. I performed several experiments at the U.S. Department of Energy (DOE) Sandia National Laboratory's Gamma Irradiation Facility (GIF) in Albuquerque, NM.

In 2001, I was awarded a U.S. Department of Commerce (DOC) National Oceanic and Atmospheric Administration (NOAA) Educational Partnership Program (EPP) Graduate Sciences Program (GSP) fellowship, which afforded me the opportunity to join a research group at the NOAA Air Resources Laboratory (ARL). In my role as a physical scientist, I have participated in the planning, sampling, and data analysis of several air quality field experiments. My area of expertise is atmospheric deposition of gases and particles in coastal regions of the U.S. Atmospheric deposition of certain chemical species may produce eutrophication and even anoxia in estuarine waters, which in turn may induce mortality of aquatic life. Therefore, a primary objective of my research has been to quantify the fluxes and deposition velocities of several atmospheric constituents in order to establish their influence on nutrient loading in estuarine ecosystems. I have presented my research at the annual conferences of numerous organizations including the American Meteorological Society (AMS), National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE), and National Atmospheric Deposition Program (NADP).

In many of my previous positions in both the research and community service arenas, I have worked as a conduit for learning and as a critical thinker. I volunteered as an assistant coach for a high school science bowl team, and I spent several summers as a counselor for an environmental science camp. Currently, I am a co-chairperson for the student support sub-committee of NOBCCChE. All of the experiences that I have garnered from these various capacities have shaped my view of the exchange of ideas to develop appropriate plans in order to meet stated goals.

In summary, I steadfastly believe that my educational, professional, and personal experiences will greatly complement any dispute resolution panel. I have attached a brief curriculum vitae for the Commission's perusal. If any supporting documentation is required, please contact me. I eagerly await your decision.

Cordially,

LaToya Myles
Physical Scientist
NOAA Atmospheric Turbulence & Diffusion Division

Curriculum Vitae for *LaToya Myles*

*National Oceanic & Atmospheric Administration
Atmospheric Turbulence & Diffusion Division
456 S. Illinois Avenue
P.O. Box 2456
Oak Ridge, TN 37831-2456*

*Business Phone: (865) 576-0452
Business Fax: (865) 576-1327
E-mail: LaToya.Myles@noaa.gov*

Academic Achievement

Aug 1999-present
Florida A&M University
Environmental Sciences Institute
Tallahassee, FL 32307

*Pursuing Doctor of Philosophy in Environmental Science
*GPA: 3.98/4.00

Aug 1994-May1999
Alcorn State University
Department of Chemistry & Physics
Department of Biology
Alcorn State, MS 39096

*Bachelor of Science in Chemistry
*Bachelor of Science in Biology
*Magna Cum Laude Graduate
*Honors Curriculum Graduate

Aug 1991-May 1994
Kosciusko High School
Kosciusko, MS 39090

*Diploma in College Preparatory Classes
*Salutatorian

Professional Experience

Apr 2004 – present
U.S. Department of Commerce
National Oceanic & Atmospheric Administration
Air Resources Laboratory
Atmospheric Turbulence & Diffusion Division
Oak Ridge, TN 37831

Physical Scientist

Oct 2001- Mar 2004

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
Air Resources Laboratory
Silver Spring, MD 20910

Physical Scientist

Sept 2001-Feb 2002

LeRoy Collins Leon County Public Library
Parkway Branch
Tallahassee, FL 32301

Library Assistant

Aug 1997-Aug 1998

Entergy, Inc.
Grand Gulf Nuclear Station
Port Gibson, MS 39108

Chemistry Cooperative Education Student

Jan 1997-May 1997

Entergy, Inc.
Grand Gulf Nuclear Station
Port Gibson, MS 39108

Chemistry Cooperative Education Student

Awards & Recognitions

National Achievement Finalist, 1994

Wal-Mart Scholar, 1994

Tandy Technical Scholar 1994

ASU Deans List, 1994-1999

Ronald McNair Post-Baccalaureate Fellow, 1996 and 1997

Who's Who Among American College & University Students, 1998

ASU Outstanding Graduate in Chemistry, 1999

US EPA CDAI STAR Environmental Sciences Fellow, 1999-2001

US DOC NOAA Graduate Sciences Program Fellow, 2001-present

Activities & Memberships

Alpha Kappa Mu, 1997-1999

National Council of Negro Women, 1997-2000

Beta Beta Beta, 1998-1999

Alcorn State Univ. National Alumni Association, 1999-present

National Org. for the Professional Advancement of Black Chemists & Chemical Engineers (NOBCChE), 2000-present

Environmental Careers Organization, 2001-present

FAMU Science Bowl Team (asst. coach), 2002-2003

American Meteorological Society, 2003-present

American Geophysical Union, 2003-present

Blacks in Government (BIG), present

Conference Presentations

21st Annual NOBCChE National Meeting, San Diego, CA, April 2004, oral presentation entitled The Utilization of Annular Denuder Techniques and Ion Mobility Spectrometry to Explore the Deposition of Atmospheric Ammonia

American Meteorological Society Sixth Conference on Atmospheric Chemistry, Seattle, WA, January 2004, poster presentation entitled The Utilization of Ion Mobility Spectrometry and Annular Denuder Techniques to Explore the Deposition of Ammonia in Coastal Ecosystems

National Atmospheric Deposition Program Ammonia Workshop, Washington, DC, October 2003, poster presentation entitled The Utilization of Ion Mobility Spectrometry and Annular Denuder Techniques to Explore the Deposition of Ammonia in Coastal Ecosystems

1st Annual South Florida Caribbean CESU Science Forum, Miami, FL, June 2003, oral presentation entitled The Utilization of Ion Mobility Spectrometry and Annular Denuder Techniques to Explore the Deposition of Ammonia in Coastal Ecosystems

Florida Annual Meeting and Exposition American Chemical Society, Orlando, FL, May 2003, oral presentation entitled The Utilization of Ion Mobility Spectrometry and Annular Denuder Techniques to Explore the Deposition of Ammonia in Coastal Ecosystems

20th Annual NOBCCChE National Meeting, Indianapolis, IN, April 2003, oral presentation entitled The Utilization of Ion Mobility Spectrometry and Annular Denuder Techniques to Explore the Deposition of Ammonia in Coastal Ecosystems

NOAA & FAMU 4th Expanding Opportunities Conference in Oceanic and Atmospheric Sciences, Tallahassee, FL, April 2003, oral presentation entitled A Development of Novel Approaches to Explore the Deposition of Reduced Nitrogen

11th Annual IMHOTEP Student Research Conference, Tallahassee, FL, April 2003, oral presentation entitled A Development of Novel Approaches to Explore the Deposition of Reduced Nitrogen

NOAA Environmental Cooperative Science Center Annual Conference, Islamorada, FL, Jan 2003, poster presentation entitled A Development of Novel Approaches to Explore the Deposition of Reduced Nitrogen

Environmental Protection Agency Science-To-Achieve Results Conference, Silver Spring, MD, June 2001, poster presentation entitled A Study of the Irradiation of Nutrients in Aquatic Media

Research Interests

Atmospheric chemistry (especially atmospheric deposition)
Water quality in coastal regions
Ion mobility spectrometry
Environmental justice

References

Larry Robinson, Ph.D.
Provost and Vice President for Academic Affairs
Florida A&M University
Foote-Hilyer Administration Center, Suite 301
Tallahassee, Florida 32307
Phone: (850) 599-3276
Fax: (850) 561-2551
E-mail: larry.robinson@famu.edu

NOAA Atmospheric Turbulence & Diffusion Division
456 S. Illinois Avenue, P.O. Box 2456
Oak Ridge, TN 37831-2456

LaToya.Myles@noaa.gov
P: (865) 576-0452
F: (865) 576-1327

Tilden Meyers, Ph.D.
Deputy Director, Atmospheric Turbulence & Diffusion Division
Air Resources Laboratory
National Oceanic & Atmospheric Administration
456 S. Illinois Avenue
P.O. Box 2456
Oak Ridge, TN 37831-2456
Phone: (865) 576-1245
Fax: (865) 576-1327
E-mail: tilden.meyers@noaa.gov

Richard Gragg, III, Ph.D.
Director, Center for Environmental Equity and Justice
Environmental Sciences Institute
Florida A&M University
Humphries Science Research Center, Room 305
1520 South Bronough Street
Tallahassee, FL 32307
Phone: (850) 599-3550
Fax: (850) 412-7785
E-mail: richard.graggiii@famu.edu

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