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James L. Kelley, Chairman
Administrative Judge
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Glenn O. Bright
Administrative Judge
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dr. James H. Carpenter
Administrative Judge
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, DC 20555

In the Matter of
Carolina Power and Light Company and
North Carolina Eastern Municipal Power Agency
(Shearon Harris Nuclear Power Plant, Units 1 and 2)
Docket Nos. 50-400 and 50-401

Dear Administrative Judges:

Yesterday the Staff served its proposed testimony and exhibits for Joint Contention II (c) and (e) and Eddleman 8(f)(1) on all parties. The professional qualifications of Mr. Ronald L. Ballard should have been included with our testimony. Mr. Ballard's professional qualifications are attached hereto.

Sincerely,

CABarth

Charles A. Barth
Counsel for NRC Staff

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Enclosure: As stated
cc w/encl.: Service List

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Professional Qualifications

Name: RONALD L. BALLARD
Title: Chief, Environmental and
Hydrologic Engineering Branch

Academic Training:

<u>Degree</u>	<u>Year</u>	<u>Discipline</u>	<u>Institution</u>
B.S.	1960	Geology	Michigan State University
M.S.	1963	Oceanography	University of Washington

Professional Experience:

As Chief of the Environmental and Hydrologic Engineering Branch, I have the responsibility for the conduct of technical reviews in the areas of environmental and hydrologic engineering. I have supervisory responsibilities over two sections which are staffed with environmental engineers, terrestrial and aquatic ecologists, and hydrologic and coastal engineers. I have management responsibilities over environmental reviews in the evaluation of non-radiological impacts of nuclear facilities on terrestrial and aquatic resources and on land and water uses, and over safety reviews in the evaluation of nuclear facility siting and design with regard to protection from external flooding events. The Branch develops guidance to applicants and other staff reviewers on the required information and acceptable methodology for conducting technical reviews in the identified areas of responsibility; provides inputs to environmental impact statements and appraisals and to safety evaluation reports; provides advice to upper management on technical and policy matters related to the identified areas of responsibility; recommends to upper management mitigation methods and/or conditions to be imposed via permits and licenses for protection of the facility from external flooding events; serves as the staff liaison to other agencies on matters related to their review of non-radiological environmental impacts under various laws and regulations including the Clean Water Act, the Clean Air Act, the Fish and Wildlife Coordination Act and the Endangered Species Act.

I have served in a technical or managerial capacity in nuclear regulatory matters since May, 1971, when I joined the Regulatory Office of the Atomic Energy Commission as a Senior Project Manager. My principal duty at that time was to develop and implement regulatory guidelines for utility industry use in responding to regulations implementing the National Environmental Policy Act of 1969 (NEPA). This effort resulted in the issuance, in 1972, of Regulatory Guide 4.2 "Preparation of Environmental Reports for Nuclear Power Stations". This guide described the technical and procedural steps, including guidance on cost-benefit

balance methodology, to be used by the Utility Industry in preparing environmental reports to conform to the requirements of NEPA and 10 CFR Part 51.

In June, 1972, as Regulatory Guide 4.2 was nearing completion, I organized, and was designated Chief of, the Environmental Specialists Branch, a staff of Environmental Scientists and Engineers with responsibility to conduct detailed environmental reviews of non-radiological impacts associated with nuclear facility license applications. In this capacity, during the period 1972 to 1978, I had oversight responsibility over the preparation and implementation of environmental standard review plans (ESRPs) in NUREG-0555 (Environmental Standard Review Plans For The Environmental Review of Construction Permit Applicants For Nuclear Power Plants) dealing with procedures to evaluate terrestrial, aquatic, water quality and noise impacts caused by the construction and operation of nuclear power plants. These ESRPs provide specific instructions to the NRC staff responsible for environmental reviews, provide detailed descriptions of the manner in which the NRC reaches judgment on the kinds of environmental impacts caused by the construction and operation of nuclear facilities, and specify the means for determining the significance of these impacts.

For the period June 1978 to May 1980, I was assigned as Chief of the Environmental Projects Branch, where I managed the organization, editing, and issuance of complete environmental impact statements and other environmental appraisals for applications to construct, operate or modify nuclear facilities. The primary responsibility of this group was to assure that the documents were consistent with all existing NRC regulations, policies and procedures.

Subsequent to a major structural reorganization within NRC in May, 1982, I was assigned to the newly formed Environmental Engineering Branch in the Division of Engineering. As Branch Chief, I again managed the conduct of technical reviews of impacts on terrestrial and aquatic resources. This Branch also had responsibility for coordinating with other Federal and State environmental agencies in assuring that NRC's environmental responsibilities were carried out. That Branch was subsequently expanded in March, 1983, to include the hydrologic engineering sections, with broadened safety responsibilities in the areas of external flood events and ground water transport of radioactivity. This broadened role is reflected in my current position as Chief of the Environmental and Hydrologic Engineering Branch, with responsibilities previously described.

Professional Societies:

Member; Sigma Gamma Epsilon (Earth Science Honorary)
Member; Sigma Xi, Scientific Research Society of America
Treasurer; ERDA/NRC Club of Sigma Xi (1975-1976)

Papers:

- Atomic Industrial Forum; National Environmental Studies Project Seminar; April 28, 1976; Washington, D.C.
- Catholic University; Workshop on Energy, the Environment and the Role of Nuclear Power; August 5-9, 1974; Washington, D.C.
- Atomic Industrial Forum; Seminar on Preparing Environmental Reports for Nuclear Power Plants; January 22-24, 1973; Monterey, California
- Westinghouse International School for Environmental Management; July 10-21, 1972; Fort Collins, Colorado
- American Nuclear Society; Annual Session, Panel on How to Prepare Environmental Reports; June 20, 1972; Las Vegas, Nevada
- Institute of Electrical and Electronic Engineers, Baltimore Chapter; February 14, 1972; Baltimore, Maryland