May 4, 1982

Ellyn Weiss
Dr. Thomas B. Cochran
Barbara A. Finamore
S. Jacob Scherr
Natural Resources Defense Council, Inc.
1725 Eye Street, N.W., Suite 506
Washington, D.C. 20006

In the Matter of
UNITED STATES DEPARTMENT OF ENERGY
PROJECT MANAGEMENT CORPORATION
TENNESSEE VALLEY AUTHORITY
(Clinch River Breeder Reactor Plant)
Docket No. 50-537

Dear Ms. Weiss:

Enclosed are copies of the professional qualifications of Paul Leech, Richard Stark, R. Wayne Houston, and B. M. Morris, who will respond to questions from you on Thursday. Additional specialists will be added to this panel of respondants in the event that these men are unable to answer relevant questions from you. In the event that other persons are required to join these men in responding to your questions on Thursday, they will bring with them copies of their professional qualifications as well.

As I informed you by phone last Friday, we will make available Staff personnel to respond orally to questions from you on Thursday, May 6, 1982, from about 9 a.m. to approximately 5 p.m., with an appropriate break for lunch, in room 5033 of the Air Rights III building, 4550 Montgomery Avenue, Bethesda. Pursuant to our oral agreement reached on April 22, 1982, questioning will be based on the remaining subject matter covered in your 24th Set of Interrogatories. The oral responses to questions, which will be limited to one day in duration, will occur in exchange for the Staff's dropping its objection which is based on the interrogatories in the 24th Set being burdensome. The questioning will be considered to be the completion of NRDC, et. al.'s first round of discovery against the Staff, although follow-up questioning will be permitted at the session. The Staff will have the questioning transcribed and, although it will not give intervenors a free copy of the transcript, will have the transcript available for use at the hearing. The scope of the questioning is to be limited to the contentions which the Board has admitted for purposes of the LWA

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hearing, as discussed in the Board's April 22, 1982 Order. As I indicated to you on April 22, 1982, at the Staff's request, responses to questions in the 24th set pertaining to Contentions 4 and 6 only, as modified by our mutual agreement on that date, will be provided by the Staff in writing by the date provided for in the Board's April 22, 1982 Order.

The Staff reserves the right to pose any appropriate objections to questioning provided for in Part 2 of the Commission's regulations at the questioning session other than the objection that the one day questioning process is burdensome. In other words, Intervenors are free to ask as many of the relevant and proper questions on the remaining issues contained in their 24th Set as they can fit into the one day questioning session.

Also in our April 22, 1982 meeting, the Staff agreed to drop certain of its interrogatories which were contained in its First Round of Discovery to NRDC, et. al. Remaining questions are to be responded to by NRDC, et al. in writing, per your request, by the date provided for in the Board's Order.

By service of a copy of this letter to the Board, I am notifying the Board of our agreement which resolves the general objection raised during the April 20, 1982 prehearing conference regarding the remaining discovery filed between the Staff and NRDC, et al. in the first round of discovery in this proceeding.

Sincerely,

Daniel T. Swanson
Counsel for NRC Staff

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PAUL H. LEECH

PROFESSIONAL QUALIFICATIONS

I am presently employed by the U. S. Nuclear Regulatory Commission as a Project Manager in the Clinch River Breeder Reactor Program Office of the Office of Nuclear Reactor Regulation. My specific responsibility is to manage the NRC's environmental review of the application to the Commission for a permit to construct the Clinch River Breeder Reactor Plant near Oak Ridge, Tennessee. I had that same responsibility during 1975-1977.

Beginning in 1971, I have served the Commission primarily as an environmental project manager for preparation of environmental statements on various applications for construction permits and operating licenses for nuclear power plants, including: Fort Calhoun Station near Omaha, Nebraska; Millstone Power Station at Waterford, Connecticut; Surry Power Station and North Anna Power Station in Virginia; Skagit Nuclear Power Station in Washington; and the Sundesert Nuclear Plant near Blythe, California. I was also the environmental project manager for preparation of the Programmatic Environmental Impact Statement related to decontamination and disposal of radioactive wastes resulting from the March 28, 1979 accident at Three Mile Island Nuclear Station Unit 2. In addition, I served briefly as the project manager for review of the Pebble Springs Nuclear Plant in the State of Oregon.

My formal education was obtained at: San Jose (California) State College (pre-engineering, 1939-40); University of Colorado, Boulder, Colorado (B.S. degree in Electrical Engineering, 1943); and Columbia University, New York City (courses in psychology, world trade, literature). Short courses sponsored by various employers included the following subjects: electrical design; management, underground power transmission; ecosystems; nuclear power and environmental assessment.

After graduation from the University of Colorado, my initial experience was predominantly in the application and sale of electrical apparatus, analyzing and reporting technical developments and experience in the electric utility industry, and analysis of the environmental effects of all types of power plants and power transmission and distribution systems.

Beginning in 1945, I was employed for 13 years by the General Electric Company in various assignments related to the design of electrical products and their applications in industry.

Beginning in 1959, I was employed for eleven years as the Western Editor of Electrical World, a technical trade magazine published by McGraw-Hill for the electric utility industry. In this capacity I specialized in the fields of electric power transmission and distribution, system engineering and power generation.

During 1971, I was employed for eight months in the Bechtel Corporation Power and Industrial Division as a senior engineer concerned primarily with environmental effects of nuclear power plants. In September of that year I left Bechtel to accept a position with the Atomic Energy Commission's Office of Regulation (now the Nuclear Regulatory Commission).

RICHARD M. STARK

PROFESSIONAL QUALIFICATIONS

I am a Project Manager in the Clinch River Breeder Reactor Program Office, U. S. Nuclear Regulatory Commission. In this capacity, I am responsible for the planning, integration, and management of the staff safety review of the Clinch River Breeder Reactor application for Construction Permit. I am also the staff's primary safety contact with the applicants. I develop recommendations for licensing actions and integrate the results of our reviews into the safety evaluation report.

I received a Bachelor of Science degree in Electrical Engineering from the Carnegie Mellon University. I also received a Master of Science degree in Nuclear Engineering from Carnegie Mellon University. I am a Professional Engineer registered in the Commonwealth of Pennsylvania.

I have over eighteen years of profession experience in the nuclear field. I worked for Westinghouse Electric Corporation and held positions in the nuclear field as a Reliability Engineer, Systems Engineer, Licensing Engineer, and Project Engineer. I was an Engineering Manager for Stone and Webster Engineering Corporation responsible for all engineering on a nuclear project. In addition, I have been the Project Manager for the USNRC for the Callaway, Wolf Creek and Susquehanna Steam Electric Station license reviews.

R. Wayne Houston

Professional Qualifications

I am currently Assistant Director for Radiation Protection, Division of Systems Integration, Office of Nuclear Reactor Regulation, of the U. S. Nuclear Regulatory Commission. This position encompasses planning, directing, and supervising the programs and activities of three technical Branches including Radiological Assessment, Effluent Treatment Systems, and Accident Evaluation. The activities of these Branches deal primarily with the protection of both workers and the general public from the hazards of radiation exposure for both routine plant operations and for potential accidents. The scope of responsibility includes a comprehensive knowledge of the principles, theory, and practices in the field of nuclear engineering, the physico-chemical properties and transport characteristics of released radioactive materials, radiation exposure and health effects calculation techniques, and the principles of health physics and radiation protection.

I attended Yale University, majoring in Chemical Engineering, and have both Bachelor's and Doctoral degrees. Between 1949 and 1951, I was employed as a Research Associate at the General Electric Company's Knolls Atomic Power Laboratory where I performed research and development activities associated with the Health Physics program. This included particle size analysis of airborne particulate materials, bioassay procedures, and iodine monitoring techniques for dissolver off-gas systems. From 1951 to 1954, I was Assistant Professor of Chemical Engineering at Columbia University and participated in the introduction and teaching of nuclear engineering courses at the graduate level. During the first two years of this period, I was also a consultant to the Columbia Heat Transfer Project Group that performed burn-out studies in connection with the Savannah River project that was then underway. Following one year in a similar position at the University of New Hampshire, I became an Associate Professor of Chemical Engineering at the University of Pennsylvania where I developed several nuclear engineering courses and a comprehensive laboratory course in this field.

In 1960, I became Laboratory Director of a five megawatt nuclear research reactor facility in Plainsboro, New Jersey, which was operated under contract by Columbia University. Simultaneously, I became Professor of Chemical Engineering at Columbia and a member of its Division of Nuclear Engineering. I continued teaching on a part-time basis, particularly in the area of nuclear reactor physics and kinetics, and conducted operating experience laboratory courses at the reactor facility until 1967. I had total onsite management responsibility for the reactor facility from 1960 through 1971, under successive changes in ownership, becoming Vice President in 1967 of Industrial Reactor Laboratories, Inc., and President 1971.

I joined the regulatory staff of the U. S. Atomic Energy Commission in January 1972, as a Lead Reactor Safety Engineer in the Operational Safety Branch, becoming Chief in October 1972. I continued as Branch Chief in successive organizational changes of this Branch into the Industrial Security and Emergency Planning Branch in April 1974 and Emergency Planning Branch in October 1977. I became Chief of the Accident Analysis Branch in September 1978 and this became the Accident Evaluation Branch in April 1980. I was appointed to my present position in December 1981.

B. M. MORRIS

PROFESSIONAL QUALIFICATIONS

I am presently Section Leader, Technical Review Section, Clinch River Breeder Reactor Program Office, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission. In this capacity, I am responsible for direction of the technical review section's review of the fast sodium-cooled CRBRP safety review.

I received a Bachelor of Science, M.S., and Ph.D. degrees in physics from the University of Tennessee.

I spent five years teaching engineering and physics at Worcester Polytechnical Institute. I also spent five years doing research in engineering and nuclear physics at Savannah River and Oak Ridge National Laboratory. In 1977, I joined the Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation in the Reactor Safety Branch. I then worked in the Instrumentation and Control Systems Branch. I then became a Section Leader in the Reactor Systems Branch.

I have published several Journal papers in the fields of physics and nuclear engineering.