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MICHAELSON -

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EDUCATIONAL AND PROFESSIONAL QUALIFICATIONS
Carlyle Michelson
Principal Nuclear Engineer (Nuclear Systems Analysis)
Tennessee Valley Authority

Principal Nuclear Engineer with 27 years of diversified, progressive experiance in research, development, design, and safety evaluation of research and power reactor systems.

Employed by the Tennessee Valley Authority since graduation from the University of Kentucky in June 1952 (BSEE and MSEE).

Received one year of post-graduate training in reactor physics and technology at the Oak Ridge School of Reactor Technology (1953-54).

On loan as a Nuclear Development Engineer from TVA to the Oak Ridge National Laboratory for 10 years (1955-1965) with responsible engineering and research assignments in the Reactor Experimental Engineering, Instrumentation and Controls, Thermonuclear Experimental, Reactor, and Metallurgy divisions. Assignments included reactor design, design and safety evaluation of experimental loops and facilities, development of reactor controls, thermonuclear research, and nuclear fuel development.

Received the professional degree of Electrical Engineer from the University of Kentucky in June 1959 and a graduate degree in Industrial Management (MS) from the University of Tennessee in December 1963.

Returned to TVA in 1965 to assist in the preparation of a technical evaluation study of light water reactor technology which lead to the TVA Browns Ferry Nuclear Plant commitment. Responsible for evaluation of reactor fuels and fuel cycle economics and for planning and preparation of the TVA Specification for Nuclear Fuel Supply for Browns Ferry.

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Assigned as a Senior Nuclear Engineer to the TVA Division of Engineering Design in 1966. Assisted in preparation and review of the safety analysis report for Browns Ferry. Performed intensive reviews to confirm the adequacy and evaluate safety and licensability of various safety-related systems during design and construction of the plant.

Appointed Principal Nuclear Engineer in 1970. Supervised the organization, staffing, and development of the Nuclear Systems Analysis Section as a new organizational unit. Provided detailed policy direction and indepth technical supervision relating to technical review and evaluation of all safety-related systems and features for TVA nuclear plants. Section responsibility included analysis of electrical, mechanical, and control aspects of systems with respect to integration of all systems into the total plant complex including appropriate consideration of overall nuclear safety and licensability requirements. Also responsible for coordination and technical review of the preoperational and startup test programs, procedures, and results. Staff numbered up to 24 electrical, mechanical, and nuclear engineers.

Personally planned and prepared the safety analysis report required by the Nuclear Regulatory Commission to assure plant safety during operations related to fuel removal, fuel storage, and plant restoration following the Browns Ferry fire.

When requested, served as a consultant to the Advisory Committee on Reactor Safeguards in such areas as nuclear safeguards and security, nuclear plant arrangement, systems interactions, licensee event reports, and, most recently, the Three Mile Island accident.