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2/21/92

APCo Exhibit 82

POCKETED
USNRC

VINCENT S. NOONAN
GENERAL MANAGER
SAFETY AND LICENSING SERVICES DIVISION
AND ROCKY MOUNTAIN DIVISION

'92 MAR 13 P4:56

OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH

EDUCATION

University of Missouri at Rolla, M.S., Engineering Mechanics, 1973
Saint Louis University, Parks College, B.S., Aeronautical Engineering, 1959

CLEARANCE

DOE "Q"

EXPERIENCE

NUS Corporation, 1987-present
Robert L. Cloud Associates, Inc., 1987
U.S. Nuclear Regulatory Commission, 1974-1981; 1982-1987
EDS Nuclear, Inc. (Impell Corporation), 1981-1982
McDonnell Douglas Corporation, 1959-1974

NUS -As General Manager, is responsible for technical and administrative management of all consulting services for the Safety and Licensing Services Division and Rocky Mountain Division. The divisions provide a variety of management, engineering, environmental, waste and scientific services to meet needs of utilities, government agencies, and other industrial groups and companies throughout the United States and in other countries. Present business activities include safety and licensing, performance assessment, operational readiness reviews, independent safety reviews, training, quality assurance, services for all nuclear energy technologies, and management consulting. Provides consulting services to utility management and utility engineering groups, industrial groups and companies relating to self assessment programs and assisting utilities address the NRC's severe accident program, seismic upgrade program (ISAP/ISEP), equipment qualification of electrical equipment (10 CFR 50.49), seismic qualification of electrical and mechanical equipment (A-46; NUREG-1211), Appendix R (10CFR 50), IE Bulletins 79-02, 79-04, 79-07, 79-14, and the Mark I, Mark II, and Mark III new loads. Consults with the DOE on classified programs at Savannah River and supports the Operational Readiness Reviews for this site. Supports utilities and their legal organizations with Public Utility Commission hearings, rate cases, lawsuits, and other litigation matters. Provides utility support in preparation for, and presentation with, the Internal Revenue Service. Provides audits and recommends improvements as necessary for the utility's Quality Concern Programs (also known as SAFETEAM or Quality

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HALLIBURTON NUS

NUCLEAR REGULATORY COMMISSION

Docket No. 50-348364-CivP Official Exh. No. 82
in the matter of Alabama Power Company
Staff _____ IDENTIFIED 11:40 a.m. 2/21/92
Applicant ✓ RECEIVED 11:40 a.m. 2/21/92
Intervenor _____ NOTED _____
Cont'g Off. _____
Contractor _____ 2/21/92
Other _____
Reporter L. E. [unclear]

First). Manages consulting services with regard to operational readiness reviews, safety system functional inspections and diagnostic inspections. Served as the Team Leader for the Technical Audit Team in the design implementation review and quality assurance audit of the Philippine Nuclear Power Plant in Bataan, Philippines. Manages the NUS safety, PRA, Severe Accident Analysis, FSAR, and environmental scope of work on the DOE New Production Reactor.

Robert L. Cloud Associates - As Vice President in Charge of East Coast Operations, was responsible for management of consulting activities related to nuclear licensing, with emphasis on equipment qualification and seismic issues. Oversaw all Eastern Region activities, including marketing. Provided support to a number of utilities on licensing matters and conducted management prudence reviews in support of litigation and regulatory proceedings for utility clientele.

NRC - Served as Director, PWR Project Directorate 5 (1985-1987), in Division of PWR-A Licensing, Office of Nuclear Reactor Regulation. In addition to duties as Director for Comanche Peak Project, directed and coordinated NRC licensing review for Byron Units 1 and 2, Braidwood Units 1 and 2, Seabrook Units 1 & 2, South Texas Units 1 & 2, Salem Units 1 & 2, Millstone Unit 3, and RESSAR, a Westinghouse standard design plant. Review involved direct contact with Commission's Atomic Safety and Licensing Board and Appeal Board. Was responsible for the NRC's allegation programs for both Comanche Peak and South Texas which involved inspections and audits of utility's programs that investigated allegations of quality concerns and/or wrongdoing. These programs are normally called Quality Concern Program, SAFETEAM, or Quality First.

As Director, Comanche Peak Project (1984-1985), for Division of Licensing, Office of Nuclear Reactor Regulation, directed and coordinated NRC licensing review of Comanche Peak facilities. Supervised approximately 100 NRC staff members and consultants in technical review, PRA and inspection. Review focused on mechanical and electrical components, plant systems, and operations, with heavy emphasis on quality control and quality assurance. Directed the design adequacy, design implementation, and quality assurance audits for the NRC in evaluating both the construction and design adequacy of the Comanche Peak Power Plants. Coordinated with Office of General Counsel regarding legal activities and maintained direct contact with the Commission's Atomic Safety and Licensing Board and Appeal Board.

As Chief, Equipment Qualification Branch (1982-1984), Division of Engineering, Office of Nuclear Reactor Regulation, managed overall engineering safety review, analyses, and evaluations of electrical and mechanical components for all reactor facilities licensed for operation. Directed

the Engineering Division's efforts in the writing and publication of the rule for equipment qualification of electrical equipment (10 CFR 50.49) and the seismic qualification of both electrical and mechanical equipment (A-46; NUREG-1211). Evaluated applications for new plant operating licenses and performed licensing analyses of design and modifications of operating facilities. Supervised detailed technical reviews and evaluations of electrical and mechanical component engineering, directing an engineering staff of 30 specialists.

As Assistant Director, Materials and Qualifications Engineering (1980-1981), Division of Engineering, Office of Nuclear Reactor Regulation, planned and directed programs and activities of Materials Engineering, Chemical Engineering, Equipment Qualification, and Quality Assurance Branches with a staff of 120. Had lead responsibility in the writing and publication of Appendix R to 10 CFR 50; Fire Protection Program. Work included analyses and evaluations aimed at establishing and improving safety of operating nuclear plants and other plants under construction or licensing review. Responsibilities included overall administration, including development of budgets and overall scheduling of work.

Served as Chief, Engineering Branch (1978-1980), progressing from Section Leader, Mechanical Engineering (1977-1978), in Division of Operating Reactors, Office of Nuclear Reactor Regulation. Managed overall engineering safety review, analyses, and evaluations of structural and mechanical components for all reactor facilities licensed for operation. Managed NRC/Brookhaven PRA studies for BWR Reactors which included damage assessments for seismic events. Also evaluated applications and issued construction permits and operating licenses for non-power reactors and evaluated operational design modifications as requested for operating facilities exempt from licensing process. Directed and performed numerous walkdowns associated with both piping and electrical areas. Was responsible for the engineering inputs to IE Bulletins 79-02, 79-04, 79-07, and 79-14.

As Chief, supervised detailed technical reviews and evaluations within mechanical, structural, and materials engineering disciplines, directing an engineering staff of 37 specialists. As Section Leader, planned, coordinated, and reviewed all work assigned to Mechanical Engineering Section.

As Senior Engineer (1976-1977), Engineering Branch, Division of Operating Reactors, reviewed, analyzed, and evaluated safety issues relative to structural and mechanical components of reactor facilities licensed for power operation. Evaluated applications for construction permits and operating licenses for non-power reactors and operational and design modifications of operating facilities exempt from licensing.

As Senior Mechanical Engineer (1974-1976), Mechanical Engineering Branch, Division of Systems Safety, Office of Nuclear Reactor Regulation, reviewed and evaluated structural integrity, operability, and functional capability of safety-related mechanical and electrical equipment, mechanical components, and piping systems and their supports for nuclear utilities seeking construction permits and operating licenses. Conducted various technical studies and analyses and provided specialized technical assistance to other NRC divisions.

EDS Nuclear - As Division Manager, Engineering Analysis Division, provided specialized engineering and management consulting services to electric power industry. Was responsible for analytical engineering, structural design, and engineering revenues in excess of \$12 million.

Established division objectives and standards, monitored budgets and schedules, and prepared periodic reports for clients and corporate management. Assisted project management in project planning, scheduling, and contract administration. Developed business plans and business and manpower forecasts. Also supervised training and development of personnel.

Ensured that all services were provided in strict compliance with applicable regulations, codes, and standards and with accepted practices of the engineering profession.

McDonnell Douglas - As Group Engineer, Structural Dynamics, supervised structural dynamics analyses involving advanced technology. Was responsible for finite math modeling of complex structures; eigenvector and eigenvalue modeling; and analyses of vibration and shock, random vibration, and sonic fatigue. Maintained subcontractor-engineering consulting relationships on vibration, shock, and acoustics problems.

Conducted seismic response analyses of structures located in underground silos; performed math modeling for high- and low-temperature analyses of aircraft and silo piping and for near-miss shock analyses of missiles and hydrofoils.

Conducted structural dynamics studies for a conceptual design fusion reactor.

MEMBERSHIPS

American Society of Mechanical Engineers
Committee on Appendix F Faulted Loading Conditions
Committee on Equipment Qualification