

Professional Experience

Edward M. Davis

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SUMMARY

Senior nuclear industry executive with 40 years of nuclear industry experience, including engineering, management, business development, project finance, marketing, and government affairs. Experience includes both large, large GWe scale reactors and small modular reactors (SMRs). Intimate knowledge of a wide range of energy and environmental issues both domestic and internationally coupled with a keen understanding of governmental policymaking, regulatory compliance, and state rate making and congressional authorization and appropriation process.

Experience includes providing testimony before Congressional committees and expert witness in litigation matters. Subject matter expertise includes technology and risk assessments, nuclear energy development, nuclear power plant economics, project finance and NRC regulation, spent fuel, reprocessing and waste management and decommissioning. Specific expertise includes NRC Part 52 licensing process as well DOE's Nuclear Energy Programs, including Nuclear Plant Licensing SMR Support, Loan Guarantee/Plant Vogtle due diligence, and the Yucca Mountain and nuclear waste storage, disposal and decommissioning programs.

Pegasus Group

Washington, D.C.

2002-Present

President and Managing Director

Responsible for providing strategic consulting services to a wide range of clients in the energy and electric utility industries and Federal agencies in the areas of strategic and program planning, business development and marketing, government procurement, government and regulatory affairs, energy and environmental policy, congressional appropriations and budget processes, state utility rate making and prudence proceedings.

Extensive experience with interfacing with NRC senior management and project management review staff as well as NRC's construction management and inspection staff. Extensive experience with supporting the DOE Loan Guarantee Office in conducting nuclear project loan guarantee application reviews and related project due diligence credit and risk assessment reviews. Extensive experience with DOE senior management and project staff on the Yucca Mountain repository and consolidated storage programs.

Extensive experience with the new nuclear plant build program, including:

- Technology reviews and assessments of alternative reactor systems, including small modular reactors
- Risk assessments of proposed new nuclear plant projects
- Due diligence and credit reviews of proposed new nuclear plants
- Development of project execution plans and project management plans
- Evaluation of project management organization and concept of operations
- Evaluation of EPC contract terms and conditions
- Evaluation of NRC Part 52 licensing strategy
- Assessment of supply chain and long-lead procurement strategy

- Evaluation of project financing strategies and economic evaluations of alternative generation options
- Technology reviews and readiness assessments, including renewables, storage batteries, smart grid applications and desalination Evaluation of alternative SMR business models and economics
- Economic project assessments, including Levelized Cost of Electricity (LCOE) analyses
- Assessments of utility integrated resource plans and supply/demand forecasts for future electricity supply
- Assessments of potential impacts and compliance strategies with the EPA Clean Power Plan

Nuclear Economic Consulting Group (NECG)

2014- Present

NECG Affiliate Consultant

NECG is a premier nuclear economics consulting firm providing expert advice and consultations to the nuclear industry and government agencies.

- Participated in numerous engagements with industry and U.S. federal government agencies on evaluating the economic competitiveness of nuclear power plants and the key drivers that contribute to nuclear power plant early retirements
- Evaluated the economic feasibility of an international repository and storage facility

NAC International

Atlanta, GA

1994-2001

President and Chief Executive Officer

Nuclear engineering, energy consulting, and transportation services company serving the electric and energy industries with offices domestically and worldwide.

- Successfully obtained NRC licenses for three new spent fuel dry cask storage systems and oversaw company's design, engineering, and licensing efforts
- Led and oversaw company's efforts to manufacture and fabricate and construct and load dry cask storage systems at nuclear power plant sites
- Provided project management oversight over three strategic business units with offices, operations, and projects worldwide
- Conducted and provided oversight of numerous nuclear fuel cycle supply/demand assessments, including enrichment and reprocessing
- Turnaround leadership and management on regulatory compliance issues
- Extensive experience interfacing with NRC Office of Nuclear Materials and Safeguards
- Testified before the U.S. Congress and regulatory agencies as expert witness on nuclear energy and environmental policy issues

American Nuclear Energy Council Washington, D.C.
President and Chief Executive Officer

1977-94

Trade association with over 100 members companies representing the nuclear energy industry before the U.S. Congress and the Administration.

- Directed national industry governmental affairs organization
- Directed national lobbying campaigns on critical industry-wide issues
- Successfully achieved passage of landmark licensing reform legislation
- Successfully achieved passage of landmark nuclear waste disposal legislation
- Testified before U.S. Congress on legislative policy issues and served as industry spokesperson to national media and press

NUS Corporation

Senior Consultant

A major energy and environmental consulting firm serving a variety of clients in the energy and environment sectors.

- Responsible for economic and competitive technology evaluations
- Evaluated competitive fuel supply bids

NFS Corporation

Energy Analyst, Corporate.

- Developed technology cost-benefit and economic evaluations

Bechtel Corporation

Licensing Engineer

A major architectural and engineering corporation.

- Responsible for competitive evaluations of power generation technologies
- Responsible for safety evaluations

Education

- B.S., Nuclear Engineering, University of Virginia
- M.B.A., George Mason University

Boards and Memberships

- American Nuclear Society, Member
- Nuclear Economics Consulting Group
- Nuclear Infrastructure Council, Senior Fellow

Publications (Last five years)

- Economic and Market Challenges Facing the U.S. Nuclear Commercial Fleet, September 2016 (co-author)
- Review of Overnight Capital Costs Estimates for New Commercial Nuclear Power Plants, Argonne National Laboratory, January 2011
- Various Commentary Postings on Nuclear Town Hall website