



Marc Goldsmith & Associates LLC

Nuclear Technology and Policy Services

Marc Goldsmith & Associates LLC (MGALLC) has been supporting the nuclear industry since the mid-1970s. As a result, we have seen the booms, the busts, the fads, the successes and the failures. We have provided consulting services and technical support for licensing, operation and maintenance, rate recovery, back end dry storage, spent fuel policy and long term operation. We excel in the interface between policy and technology.

Our broad range of critical thinking has helped a wide variety of vendors, utilities, suppliers and regulators to succeed in recovering costs related to plant operation, developing better public policy, implementing waste solutions, addressing environmental issues, and maximizing the value of their nuclear assets.

Services currently offered vary by client need but can include:

- Expert legal support and testimony
- Plant licensing and environmental support
- Fuel cycle and technology assessments
- Nuclear plant management consulting
- Public communication

Our experience in these areas includes:

- Serving as expert witness on a commercial \$1.3 billion case regarding spent nuclear fuel
 - Training the prime witnesses (senior vice president and vice president) for a \$650 million cost recovery case
 - Integrating rate case strategy with nuclear safety requirements
 - Serving as expert witness on multiple hearings before state and federal regulators on numerous nuclear safety and environmental externalities disputes
 - Auditing a nuclear plant management structure for long term viability
 - Preparing multiple studies on the nuclear fuel cycle, including waste disposal
 - Delivering numerous speeches and strategic plans on nuclear plant risks/rewards
- (See “Selected MGALLC Nuclear Projects,” attached, for additional examples.)

For more information, please visit www.mgallc.net or contact Marc Goldsmith at 617.416.7638 or marc@mgallc.net.



Selected MGALLC Nuclear Projects

Expert Legal Support and Testimony

Boston Edison Company, Boston, Massachusetts. Assisted in developing testimony and preparing senior executives to present testimony on nuclear plant operations and supply planning. Prepared all technical cross-examination of intervenor witnesses and was instrumental in obtaining \$650 million in rate relief.

Suffolk County, Long Island, New York. Advised county government on technical issues relating to a boiling water reactor power plant (Shoreham Nuclear Power Station, Unit 1) and prepared testimony and cross-examination on plant safety and operations issues.

Westinghouse Electric Corporation, Washington, DC. Assisted in waste disposal siting and legislative drafting and policy analysis. Worked with state and federal officials on the design of regulations and siting. Testified before the EPA, NRC, DOE and several state agencies.

Westinghouse Electric Corporation, Pittsburgh, Pennsylvania. Managed evaluation of all potential options for disposition of approximately 400 MTUs of spent fuel discharged from Turkey Point.

International Brotherhood of Electrical Workers, Local 25. “Economics of Alternatives to Nuclear Power Generation” testimony presented for intervenor IBEW Local 25 on the Jamesport Nuclear Generating Station, Units 1 and 2, before the Atomic Safety and Licensing Board.

Pacific Legal Foundation. “Environmental Effects of Uranium Fuel Cycle S-3” testimony on behalf of the Pacific Legal Foundation before the Atomic Safety and Licensing Board

Southern Company Services, Birmingham, Alabama. “Starting Point Values for Environmental Externalities Associated with Nuclear Power Generation” testimony before the Florida Public Utilities Commission on behalf of the Florida Power Coordinating Council.

State of California Energy Resources Conservation and Development Commission. “Energy Production Wastes and a Perspective on Long-term Effects” testimony before the State of California Energy Resources Conservation and Development Commission, informal hearings on nuclear fuel reprocessing and waste disposal.



Plant Licensing and Environmental Support

Edison Electric Institute, Washington, DC. Directed a study providing the background and bases for the use of positive measures by the NRC in its enforcement program. Examined use of incentives to reinforce existing licensee strengths and provide job performance benefits. Analyzed legal, technical, regulatory and employee ramifications.

Georgia Power Company, Atlanta, Georgia. Managed an analysis of the wisdom of continuing construction of a two-unit nuclear station. Evaluated the need, schedule, safety and costs.

Massachusetts Institute of Technology, Cambridge, Massachusetts. Analyzed nuclear power regulatory issues for a light water reactor research assessment.

Northeast Utilities, Hartford, Connecticut. Served as senior technical advisor developing monetized externality values for four nuclear power plants and assessed selected studies on the environmental costs of nuclear and fossil-fired electricity generation.

Saskatchewan Energy Conservation and Development Authority, Saskatoon, Saskatchewan. Assisted in the assessment of the role of the CANDU 3 reactor within the Province of Saskatchewan. Provided economic, environmental and other analyses, including environmental externalities.

Vermont Yankee Nuclear Power Corporation, Rutland, Vermont. Prepared a paper on nuclear power plant decommissioning, including issues relating to U.S. Nuclear Regulatory Commission "As Low As Reasonably Achievable" (ALARA) requirements.

Yankee Atomic Electric Company, Bolton, Massachusetts. Assisted in the preparation of an environmental report supporting plant license extension. Assessed the need for and alternatives to the Yankee plant as well as comparative economic and societal benefits of continued plant operation.

Ontario Hydro International, Toronto, Ontario. Calculated the values of nuclear power plant externalities for Ontario Hydro's five power stations. Developed a cradle-to-grave approach that incorporated the entire fuel and plant cycles: construction, upstream fuel, routine operations, accidents, decommissioning, low-level waste and spent fuel. To be compatible with Ontario Hydro's full cost accounting program, established a methodology that both expenses and amortizes externality costs. Performed a detailed critique of several nuclear power plant externality cost calculations previously performed by others.



Fuel Cycle and Technology Assessments

State of Connecticut, Attorney General's Office, Hartford, Connecticut. Managed and presented a study evaluating the technical basis of New York City's request for non-preemption determination of spent fuel transport through New York City. The study, which calculated transport risks and other related factors, served as the basis for regulatory testimony.

U.S. Nuclear Regulatory Commission, Washington, DC. Researched and co-authored a regulatory research accomplishments report for the Division of Nuclear Regulatory Research.

Wisconsin Electric Company, Milwaukee, Wisconsin. Assisted in the evaluation of residual environmental impacts from routine operation of a two-unit nuclear power station. Developed financial estimates of the cost of certain environmental impacts of the plant operation. Testified on the results.

Congressional Research Service, Library of Congress, Washington, DC. Analyzed the economics of reprocessing fuel from nuclear power stations, and prepared an assessment of the status of safety research for various nuclear breeder reactor designs.

Maine Yankee Atomic Power Company, Wiscasset, Maine. Supported major regulatory and legislative efforts addressing low-level radioactive waste disposal.

NELRAD, Boston, Massachusetts. Assisted in the formation of a consortium of New England low-level radioactive waste generators (NELRAD). Prepared legislative, technical and communications materials including a strategic plan, draft legislation and a public information plan.

Atomic Energy of Canada, Ltd., Ottawa, Canada. Prepared monthly report on nuclear waste management activities with primary emphasis on high-level waste disposal. Also consulted for the Waste Management Public Affairs Program.



Nuclear Plant Management Consulting

Northern States Power Company, Minneapolis, Minnesota. Participated in the nuclear safety review of the corporate nuclear program. Initiated by the Board of Directors, the audit covered strategic asset assessment of every phase of nuclear power plant operation and management. Conducted over 100 interviews and evaluated the management team, asset protection, training and competence. Presented a report of the findings to management and board of directors.

Northern States Power Company, Minneapolis, Minnesota. Director and principal author of a prudency assessment of the company's Recirculation Piping Replacement Project. Analyzed the project scope, management, budget and schedule.

U.S. Department of Energy, Washington, DC. Developed a top-down management process for federal government research and development decision making. Using NRC's regulatory research program as a model, applied this process to the environmental qualification of safety-related equipment.

Confidential Client. Managed a comparative evaluation of operation and maintenance costs between single unit and multiple unit nuclear power plant sites. Findings were used to develop market strategies.

Confidential Client. Selected as neutral party by shareholders and management to perform a study on advisability of completing a nuclear unit. Presented the findings to board of directors.

Boston Edison Company, Boston Massachusetts. Prepared technical and economic analysis of alternate energy sources in New England, which was used for testimony on Pilgrim Station II before the Massachusetts Department of Public Utilities.

Westinghouse International Projects Company, Westinghouse Corporation, Pittsburgh, Pennsylvania. Analyzed nuclear safety issues related to a nuclear power plant in the Philippines.

Edison Electric Institute, Washington, DC. Managed the development and use of an issues identification program to highlight ascending issues in nuclear plant operations. Used mix survey (modified Delphi) and citation analysis to rank key issues.

Edison Electric Institute, Washington, DC. Assisted in the development of environmental externality policy development and implementation.



Public Communication

Central Hudson Gas & Electric Corporation, Poughkeepsie, New York. Prepared and presented an employee briefing on nuclear energy issues and public speaking.

Cleveland Electric Illuminating Company, Cleveland, Ohio. Prepared a paper on nuclear safety for use in a legislative hearing.

Committee for Energy Awareness, Washington, DC. Assisted in the design and conduct of citizen action seminars on citizen participation in energy issues.

Energy Information Exchange, Bolton, Massachusetts. Conducted two-day training seminars on energy supply and demand issues for speakers from six Massachusetts electric utilities. Prepared training manuals for all participants and provided periodic "quick responses" to technical questions raised during public presentations.

Florida Power and Light Company, Miami, Florida. Designed and conducted a three-day nuclear energy advocate training program for the company's speaker's bureau members. Prepared a training manual addressing nuclear technology, nuclear safety, alternate energy resources and environmental and health impacts of power generation for program participants.

New York Power Authority, White Plains, New York. Prepared and presented a training seminar for speakers and staff on nuclear energy issues.

