

March 1, 2007

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
	)	
DOMINION NUCLEAR NORTH ANNA, LLC	)	Docket No 52-008-ESP
	)	
(Early Site Permit for North Anna ESP Site)	)	

AFFIDAVIT OF MICHAEL J. SCOTT CONCERNING THE NRC STAFF RESPONSE  
TO THE BOARD'S ENVIRONMENT-RELATED QUESTIONS


I, Michael J. Scott, do hereby state as follows:

1. I am employed as a Staff Scientist at the Pacific Northwest National Laboratory, managed by Battelle Memorial Institute's Pacific Northwest Division. I am providing responses to the Licensing Board's questions under a technical assistance contract with the staff of the U.S. Nuclear Regulatory Commission ("NRC"). A statement of my professional qualifications is attached

2. As part of the NRC staff's environmental review of the North Anna ESP application, documented in NUREG-1811, the "Environmental Impact Statement for an Early Site Permit (ESP) at the North Anna ESP Site," December 2006, I assisted the NRC staff as a member of the technical team that provided input to the FEIS. I provided assistance in the analysis of the applicant's Environmental Report that concerned socioeconomics.

3. I am responsible for those responses to Board questions (or portions of questions) in Attachment A to the "NRC Staff Legal Brief in Response to the Licensing Board's Environment-Related Questions" for which I am listed as the author

4. I attest to the accuracy of those statements, support them as my own, and endorse their introduction into the record of this proceeding. I declare under penalty of perjury that those statements, and my statements in this affidavit, are true and correct to the best of my knowledge, information, and belief.

  
Michael J. Scott

## MICHAEL J. SCOTT

Staff Scientist  
Energy Science and Technology Division  
Pacific Northwest National Laboratory

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Expertise: Natural resource and environmental economics; regional economics; socioeconomic impact; environmental justice

### EDUCATION

B.A.	Economics, Washington State University	1970
M.A.	Economics, University of Washington	1971
Ph.D.	Economics, University of Washington	1975

### EXPERIENCE

Dr. Scott's training and experience in natural resource economics, regional economics, public finance, and applied economic analysis has been utilized in a variety of projects. He has directed and participated in dozens of benefit-cost studies and evaluations of the regional impacts of economic development. He has worked on numerous projects involving practical problems of state and local governments.

#### Natural Resource Economics.

Global Change Dr. Scott is a Senior Staff Scientist with Pacific Northwest National Laboratory in Richland, Washington with a Ph.D. in economics and over 30 years of experience in microeconomic and macroeconomic modeling. Over the last ten years, Dr. Scott has specialized in studying the effects of global environmental change on natural resources and the economy, particularly impacts on human systems and uncertainty. Highlights include his management of a current project designing Monte Carlo analysis into an integrated assessment model of global change. He managed the Department of Energy's \$1M-plus Resources Analysis Research Project (MINK Study) to estimate the comprehensive regional economic consequences of global warming and CO<sub>2</sub> fertilization, in which he also contributed to the uncertainty analysis of outcomes. This was followed by a more limited effort for the Department of Energy to analyze similar questions in the Pacific Northwest, focused on water supply and utilization of the Columbia River by hydropower, irrigation, and fisheries interests. He was one of the co-

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authors of the multi-laboratory, DOE study for the Congress to estimate the feasibility and cost to the U.S. economy of achieving major reductions in CO<sub>2</sub> and other greenhouse gas emissions over the next 10 to 20 years, and is following up this activity with analysis the consequences of climate change for energy consumption and a second report to the Congress comparing policy instruments for limiting greenhouse gas emissions. Dr. Scott is also contributed to the agricultural sections of an international, computable, general-equilibrium economic model to be used by DOE to estimate the effects of economic development and policy on global warming (the SGM). He was a convening lead author for the IPCC 1995 Assessment Climate Change 1995: Impacts, Adaptation, and Mitigation of Climatic Change in the topic area of Human Settlements, a coordinating lead author for human settlements impacts in the IPCC Third Assessment Report Climate Change 2001: Impacts Adaptation and Vulnerability, a contributing author to the IPCC Special Report The Regional Impacts of Climate Change, and a lead author for the North American chapter of the IPCC Fourth Assessment Report. His current research is in the areas of impacts of climate change on energy consumption in buildings and irrigated agriculture, and the impacts of uncertainty and non-CO<sub>2</sub> gases in integrated assessment models.

Natural Resources Dr. Scott's doctoral dissertation concerns the economics of the organization of oil fields. It advances the thesis that state regulations, historically designed to allocate oil production within and among oil fields, can be explained as an effort by the oil industry itself to minimize bargaining costs. He has also analyzed the oil supply costs in foreign oil fields, analyzed oil bid leasing models utilized by the State of Alaska. Dr. Scott is a widely-published author on the practical problems and solutions of evaluating environmental benefits, especially when natural systems' benefits are not well-specified. He has published several journal articles and monographs on the relationships of the economic value of Pacific salmon and their environment, including the potential effects of hydroelectric dams on the Columbia River, global climate change and tributary conditions in the Pacific Northwest, and petroleum transportation on Puget Sound. He has also published on the economic benefits of "non-glamorous" resources, in which he provided estimates of the economic value of undeveloped shrub-steppe habitat, and an analysis of the linkages between unvalued habitat and economically valued functions.

Regional Economics. Over the last 30 years, Dr. Scott's training and experience in natural resource economics, regional economics, public finance, and applied economic analysis has been utilized in a wide variety of projects. He has directed and participated in numerous benefit-cost studies and evaluations of the regional impacts of large-scale energy development and other types of federal actions. He also has worked on several projects involving practical problems of state and local governments.

Dr. Scott developed a number of small-region economic models and conducted

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numerous regional analyses using a variety of regional models and methods to estimate the local economic and demographic effects of monitored retrievable nuclear waste storage systems in Tennessee; closure of aluminum mills in the Pacific Northwest, coal mines in Appalachia, and nuclear power plants in the Pacific Northwest and the U.S. Southeast; radioisotope production in New Mexico, Tennessee, and Idaho; and expansion or contraction of economic activity in a variety of sectors and locations.

Dr. Scott has prepared environmental justice sections for environmental impact statements for the K-Basin reactors at the Hanford Site, for four separate sites for Molybdenum-99 production, and for the Watts Bar nuclear power plant site. He has prepared environmental review guidance for the Nuclear Regulatory Commission on socioeconomics and environmental justice (NUREG-1555 and NUREG-1555, Supplement 1). He prepared socioeconomics and environmental justice sections of environmental impact statements for Department of Energy on management of solid wastes at the Hanford site and for NRC on the Calvert Cliffs, Oconee, Arkansas No.1, Edwin Hatch, and Peach Bottom nuclear power plants and an environmental justice analysis for the NRC at the PFS independent spent fuel storage facility at Skull Valley, Utah and the National Enrichment Facility at Eunice, New Mexico. He is currently working on the socioeconomic impacts of early site permits for nuclear reactors in several locations across the country.

Applied Economic Analysis. Dr. Scott has conducted several studies to resolve practical program problems of governments at all levels. At Pacific Northwest National Laboratory he has directed the development of an econometric/end-use electric load forecasting model estimate the demand for electric generating capacity in Alaska and has forecasted the demand for electric power in the European republics of the Former Soviet Union. Before coming to PNNL, he developed a low-cost price index to allocate public school foundation program funds to school districts and devised a method of administratively determining child support payments for divorced couples in accordance with federal guidelines. He helped develop a strategy for allocating minimum water flows among competing users for the State of Washington. He has conducted studies estimating the economic benefit of basic and applied science funded by the Department of Energy, options for supplying local jail services and privatized waste management, and market studies to analyze purchasing patterns of consumers, industry, and government. He prepares periodic reports on the economic diversification and growth in the Tri-Cities area of Washington State.

### PROFESSIONAL AFFILIATIONS

- American Economic Association
- Western Economic Association

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- American Agricultural Economics Association
- American Geophysical Union
- American Water Resources Association
- Board of Directors, Pacific Northwest Regional Economic Conference

### PUBLICATIONS AND PRESENTATIONS

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Scott, M.J., L.W. Vail, and R. Prasad. 2005. Managing Water for Irrigated Agriculture Under Extended Climate-Related Drought. PNNL-SA-47342. Extended Abstract Proceedings of the American Water Resources Association 2005 Annual Conference. (Cleve Stewart, ed.). Seattle, WA. November 7-10, 2005.

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(NUREG-1790). Division of Waste Management and Environmental Protection  
Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

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