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Summary of Qualifications

- 24 years of experience in energy research, with emphasis in public policy issues
- Economic and socioeconomic analyst for environmental impact statements and assessments
- Expertise in benefit-cost analysis of energy investment, socioeconomic assessment, and environmental issues related to discounting project costs and benefits
- Experience with the socioeconomic consequences associated with nuclear and hydro power plants and waste-site remediation

Work History and Accomplishments

1978 to present **Oak Ridge National Laboratory, Oak Ridge, TN**
Environmental Sciences Division, Environmental Impact Group

- Providing applied economic and socioeconomic analysis for environmental impact statements and assessments for 20 years
- Demonstrating expertise in cost-benefit analysis of energy investment, socioeconomic assessment, and environmental and social equity issues related to discounting project costs and benefits
- Analyzing wide range of projects, including assessment of the need for nuclear and hydro power plants, the socioeconomic effects of construction and operation of power plants, and assessing the benefits and costs of waste-site remediation
- Focusing on issues related to public concerns about the project effects and of the incidence of benefits and costs

1976-78 **South Dakota Planning Bureau**

- Provided executive policy analysis for the state of South Dakota.

Education and Training

M.S., Economics, 1976, Colorado State University
B.S., Economics, 1971, Purdue University

Representative Publications

"Addressing Environmental Externalities from Electricity Generation in South Carolina," paper presented at the Annual International Association for Energy Economics, April 25–27, 2001, in Houston, Texas, with Russell Lee, Demin Xiong , and Kate Billing.

"Benefits and Costs of the Proposed Action," Chapter 8 in *Draft Environmental Impact Statement for the Construction and Operation of an Independent Spent Fuel Storage Installation* . . . , NUREG-1714, U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, June 2000, with C. R. Hudson.

Determination Analysis of Energy Conservation Standards for Distribution Transformers, ORNL-6847, Oak Ridge National Laboratory, 1996, with P. R. Barnes, B. W. McConnell, and S. Das,

Technical and Environmental Aspects of Electric Power Transmission, ORNL-6165, Oak Ridge National Laboratory, 1985, with R. L. Kroodsma.

The Feasibility of Replacing or Upgrading Utility Distribution Transformers During Routine Maintenance, ORNL-6804/R1, Oak Ridge National Laboratory, 1995, with P. R. Barnes, B. W. Mc Connell, S. M. Cohn, and S. L. Purucker.

"Stimulating Energy Conservation in Commercial Buildings: A Simulation Analysis of Alternative Policies," *Energy Policy*, March 1983, with Kenton Corum.

"Determinants of Variation in Calculating a Discount Rate," *Energy—The International Journal* 14, No. 10: October 1989, with P. Hu.

Socioeconomic and Cultural Resources Section, *Draft Environmental Impact Statement for Pilot Testing of Neutralization/Biotreatment of Mustard Agent, Aberdeen Proving Ground, Maryland, February 1998.*

Benefit-Cost Section in *Draft EIS for the Reclamation of the Atlas Mill Tailings Pile Site, Moab, Utah*, 1995.

"Potential Economic Costs from Geomagnetic Storms," p. 80B83 in *Geomagnetic Storm Cycle 22: Power System Problems on the Horizon,* IEEE special panel session report, 90TH0357-4-PWR, presented July 17, 1990, with P. R. Barnes.

Socioeconomic Assessment: Closure of the Portsmouth Uranium Enrichment Facility, DOE/OR/2020837-T5, U.S. Department of Energy.

Benefit-Cost Aspects of Long-Term Isolation of Uranium Mill Tailings, ORNL/TM-8686, Oak Ridge National Laboratory, 1983.

Certification of Accuracy

This resumé has been certified for accuracy by James Van Dyke on February 21, 2002, and by Jeffrey E. Christian, Center Director, ORNL Buildings Technology Center, on February 21, 2002.