

Barbara L. Coles

Land Use Planning

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TECHNICAL EXPERTISE

Land use planning and issues resolution (including working with various levels of governmental organizations); environmental and energy project management, environmental permitting support (RCRA Parts A&B, NEPA, NPDES, etc.); resource planning and analysis (including interacting with industry and regulatory agencies); energy production, distribution and end-use analysis; programmatic strategic planning, policy development and evaluation, and public process facilitation.

EXPERIENCE SUMMARY

Ms. Coles is President of Coles Environmental Consulting, Inc., which specializes in contaminant site assessment and energy and land use planning. As a land use and site assessment consultant, she has worked on numerous projects for private companies as well as public entities such as state offices, counties, cities, ports, and school districts. She has been instrumental in identifying problem areas and critical decision points in project or policy implementation leading to development of procedures for solution or resolution of issues, often requiring negotiation or arbitration with entities affected by proposed policy applications.

Formerly, a senior program manager, project manager, and analyst in the Environmental Policy and Planning Section (Office of Technology Planning and Analysis) at Battelle Memorial Institute's Pacific Northwest Laboratory, Ms. Coles worked on both private and government projects to develop and implement institutional and regulatory policies for new or existing environmental, energy, and transportation technologies. She worked with planners, economists, and engineers to identify environmental impacts, assess natural resource capacities, evaluate technological choices, incorporate public process and review, and direct negotiations among affected parties.

Prior to her career at Battelle, she was on the staff of the Associate Director for Energy and Resource Planning at Lawrence Livermore National Laboratory. She contributed to resource assessment, energy policy development, alternative technology investigations, and the development of a large regionalized energy supply/demand equilibrium computer model. The model was used to examine the impacts of technological choices and to assess the regional implications of such choices.

For 22 years Ms. Coles was also a member, and often chair, of the Clackamas County Planning Commission. She has extensive experience in the land-use hearing process and finding common

sense solutions to complicated land use siting and development applications. Ms. Coles has represented the County at numerous land use planning conferences, committees, and task forces. She was appointed by the Board of County Commissioners to the steering committee of the Clackamas County Complete Communities Initiative, an on-going effort which has as its goal to engage all citizens of Clackamas County in an effort to define common and unique community values, identify attributes of many diverse communities and guide future policy decisions and actions which would support these values and attributes.

Ms. Coles was also appointed by Governor John Kitzhaber to the Oregon State Governor's Transportation Initiative Task Force evaluating the state of Oregon's transportation infrastructure, its challenges and opportunities.

EMPLOYMENT AND PROJECT HISTORY

President, Coles Environmental Consulting, Inc., 1994-Present

Land Use Planning

Adjunct planner and principal consultant to the city of Wilsonville for both the development and application of a master plan for *Villebois Village*, a 520-acre mixed-use "complete community" (a seven year project). Technical assistance was provided as a liaison to the private construction companies and regulatory agencies regarding submittal and review of development applications for the city's approval, including a process for the identification and resolution of issues. Technical assistance also included advising the City on planning processes necessary for the phased buildout of *Villebois Village*; preparation of all staff reports and all supporting documents for city council and planning commission public hearings; and coordinating application reviews and approval processes.

Principal planning consultant to the City of Wilsonville for the development of the Tri-Met commuter rail extension and southern terminus. Technical assistance was similar to that provided for the *Villebois Village* project with a strong emphasis on liaison activities, including negotiation and conflict resolution. Unique support required for this project included a background in transportation systems and infrastructure analysis and planning.

Coordinator for Traffic and Land Use Regulatory Compliance in an application to the Oregon Energy Facility Siting Council for a large (625 MW) power plant (Calpine Industries). As a member of a large multi-disciplinary team, technical assistance included advising Calpine on Oregon land use regulation in coordination with legal staff; reviewing Siting Council regulatory criteria and coordinating team efforts to develop responses to land use sections of the development application.

Manager for land use regulatory compliance for siting of the Women's Prison and Intake Center - Coffee Creek Correctional Facility (Oregon Department of Corrections). Technical assistance included all coordination with Washington County and the City of Wilsonville for land use applications, hearings, and issues resolution over a two and a half year

process. Additional assistance was provided to monitor compliance with extensive conditions of approval for development.

Author of the Industry Land Use Regulatory Compliance Section in “Environmental Compliance Handbook for Oregon Food Processors” (Oregon Economic Development Department).

Environmental Site Assessments

McMinnville School District
Gladstone School District
Portland Medical Center
Tualatin Medical Center
Port of Vancouver
Port of Hood River
Lane County
Sprint Communications
Numerous private companies and developments

Battelle Pacific Northwest Laboratories, Richland, WA, 1981-1988

Environmental Analysis

Deputy Program Manager, Federal Waste Management System - Waste Disposal Contract

Analysis and annual system capacity assessment for U.S. Department of Energy (USDOE)

(represented program in Edison Electric Institute workshops with utility representatives).
Received two personal commendations from USDOE.

Project Leader, Life Cycle Cost Analysis of the Federal Monitored Retrievable Storage System (USDOE)

Project Leader, Ft. Lewis RCRA Part B Application (U.S. Army)

N-Reactor Environmental Impact Statement (USDOE)

Monitored Retrievable Storage System Environmental Assessment (USDOE)

Energy Conservation in Commercial Buildings Environmental Assessment (Bonneville Power Administration)

Pacific Northwest Energy Planning and Resource Assessment

Project Leader, Assessment of resource potential from interregional transfers of electric power (Northwest Power Planning Council)

Task leader, Analysis of the competitive position of the Direct Service Industries in the NW (BPA Direct Service Industries - primarily the aluminum industry)

Study Coordinator, Northwest Utility Information Network Center (BPA)

Review/reconciliation of cost assumptions for NW coal and nuclear projects (NWPPC)
Historical and projected Alaskan oil and gas consumption (State of Alaska)

Analysis of the effects of large electric price increases in the NW (NWPPC)

Regulatory and Economic Analysis

Regulatory impact analysis of energy conservation standards on new commercial buildings

(USDOE)

Assessment of funding obligations to local governments from monitored retrievable storage facilities (USDOE)

Socioeconomic consequences of nuclear reactor accidents (US Nuclear regulatory Commission)

Technical and economic assessment of biomass research options (USDOE)

Database Management/System Modeling

Project Leader, Development and documentation of data configuration control system for a major federal waste storage system project (USDOE)

Lawrence Livermore National Laboratory, Livermore, CA, 1975-1981

Resource Assessment

Assessment of resource potential from West Coast geothermal resources
Investigation of potential of wind energy systems for grid connections

System Modeling

Demonstration and documentation of an energy policy model which analyzed the U.S. energy economy

EDUCATION

B.A., Oregon State University

Graduate work, Linguistics, Oregon State University

Graduate work, Computer Science, University of California at Davis

Post-graduate classes in advanced mathematics, economics, Japanese

Member, Sigma Delta Pi Honorary

Competency in speaking, reading, and writing French and Spanish, employed on occasion when interpreting for visiting scientists or translating proposals for contract work.

PUBLICATIONS

(note: This list does not include numerous client reports generated 1994 to date)

B.L. Coles, P.N. McDuffie, B.M. Cole. 1988. Annual [Federal Waste Management System] Capacity Report. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

D. Kreid, et al. 1988. N Reactor Safety Enhancement Program Draft Implementation Plan. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B.L. Coles, P.N. McDuffie, B.M. Cole. 1987. Annual [Federal Waste Management System] Capacity Report. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B. L. Coles, R.M. Gale. 1987. RCRA Part B Application, Fort Lewis, Washington. Prepared for the U.S. Army by Battelle Pacific Northwest Laboratories.

B.L. Coles. 1986. Analysis of the Life-Cycle Cost for the Monitored Retrievable Storage Program. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B. L. Coles, A. L. Lezberg. 1986. Monitored Retrievable Storage (MRS) Information Management System. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B. L. Coles, A.L. Lezberg. 1986. Monitored Retrievable Storage (MRS) Data Management System Description and User's Guide. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B.L. Coles. 1985. Life Cycle Cost Estimates of the Monitored Retrievable Storage Program With Non-Integral MRS Design. Preliminary Report. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B.L. Coles, A.L. Lezberg. 1985. Initial MRS Database Description. Preliminary Report. Pacific Northwest Laboratory.

J.M. Fang, B.L. Coles. 1984. Monitored Retrievable Storage Program: Funding Plan. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

D. Silveira, et al. 1984. Environmental Assessment of Monitored Retrievable Storage. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

G.L. Wilfert, et al. 1984. Regulatory Impact Analysis of Energy Conservation Standards for Federal Construction of New Commercial Buildings. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

B.J. Harrer, B.L. Coles, M.J. Scott. 1983 Preliminary Assessment of Funding Obligations for Impacts on Local Governments of Monitored Retrievable Storage Facilities. Preliminary Report. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory.

R.C. Adams, et al. 1983. The Direct Service Industries: Their Contribution to the Northwest Power System and Economy. Prepared for the Direct Services Industry by Battelle, Pacific Northwest Laboratories, Richland, Washington.

J.C. King, B.L. Coles, B.J. Harrer, E.B. Moore. 1983. Pacific Northwest Coal and Nuclear Projects: Review and Reconciliation of Planning Assumptions and Data. Prepared for the Pacific Northwest Electric Power and Conservation Planning Council by Battelle, Pacific Northwest Laboratories.

J.J. Tawil, et al. 1983. Socioeconomic Consequences of Nuclear Reactor Accidents. NUREG/CR-3566, PNL-4911. Prepared for the U.S. Nuclear Regulatory Commission by Pacific Northwest Laboratory.

M.J. Scott, et al. 1983. RED (Railbelt Electricity Demand Model) Documentation Report. Prepared for Harza-Ebasco Susitna Joint Venture by Battelle, Pacific Northwest Laboratories.

G.L. Wilfert, et al. 1982. Environmental Assessment of Energy Conservation Opportunities in Commercial-Sector Facilities in the Pacific Northwest. Prepared for the Bonneville Power Administration by Pacific Northwest Laboratory.

M.J. Scott, B.L. Coles, T.J. Secrest. 1982. Alaska-Historical and Projected Oil and Gas Consumption. Prepared for the Department of Natural Resources, State of Alaska, by Battelle, Pacific Northwest Laboratories.

B.L. Coles. 1982. Assessment of Electric Power Conservation and Supply Resources in the Pacific Northwest, Volume XV, Interregional Transfers. Prepared for the Pacific Northwest Electric Power and Conservation Planning Council by Battelle, Pacific Northwest Laboratories.

R.C. Adams, et al. 1982. Impacts of Large Regulatory Price Increases in the Pacific Northwest. Prepared for the Pacific Northwest Electric Power and Conservation Planning Council by Battelle, Pacific Northwest Laboratories.

J.J. Tawil, et al. 1982. A Technical and Economic Assessment Methodology for the Preliminary Evaluation of Biomass Research Options. Prepared for the U.S. Department of Energy by Pacific Northwest Laboratory, Richland, Washington.

B.L. Coles. 1980. Geothermal Capacity and Resource Base Update for the Pacific Coast. Internal Document ERPG-80-4/29, Lawrence Livermore National Laboratory.

C.J. Anderson, R.N. Castleton, B.L. Coles, J.T. Rambo. 1979. Demonstration of the Capabilities of the LLL Energy Policy Model 1979 Update. UCRL-52508-79, Lawrence Livermore National Laboratory.

B.L. Coles. 1979. Progress Report of Work to Date for the Energy Modeling Forum's (Stanford Research Institute) Demand Elasticity Study Using the LLNL Energy Modeling System. Internal Document ERPG-79-1, Lawrence Livermore National Laboratory.

J.T. Rambo, B.L. Coles. 1978. User's Manual for the Livermore Economic Modeling System. UCRL-52526, Lawrence Livermore National Laboratory.