

SUMMARY

Since 1986 I have closely examined the U.S. nuclear waste program and Department of Energy's Yucca Mountain Project (DOE & YMP). I have analyzed key program systems, assessed the program's socioeconomic and community effects, critiqued program analyses and policy proposals, and developed and advocated local policy responses. Uniquely, I believe, I have considered the project from the perspectives of the host state and the state's major metropolitan area as well as the rural site county. In addition, in a University of Colorado PhD program, I have assessed DOE's YMP using various "lenses"—public policy theory and process, public management and organization theory, constitutional and administrative law, etc.

The above experience is part of a 30-year career in community planning, socioeconomic and fiscal analysis, and public policy assessment. For 14 years (1986-99), I was President of Planning Information Corporation, a Denver-based socioeconomic consulting firm with a staff of 15-20 and assignments in several western states. My international experience includes a year in Denmark on a Fulbright grant, an assessment of the regional effects of an alternative energy program in Poland, and participation in an international conference (in Stockholm) on radiological standards for high-level waste disposal.

QUALIFICATIONS

Technical Aspects of the U.S. Nuclear Waste Program:

- Systems understanding of the national HLW problem and its relationship to the YMP.
- Extensive knowledge of the U.S. nuclear waste program and DOE's YMP as these have evolved, nationally and in Nevada.
- Analytical understanding of selected YMP systems: e.g. nuclear waste transportation, life-cycle costs, labor force and housing, and emergency response.
- Working relationships with key technical staff, in DOE and other federal agencies, Nevada state government, and Nevada's affected units of local government.
- Ability to produce high-quality technical assessments and analyses, and constructively critical comments, recommendations, and proposals.

Policy Aspects of the U.S. Nuclear Waste Program:

- Understanding of the politics of the YMP in Nevada, including the perspectives and positions of DOE/ORD, the State of Nevada, Nevada's affected units of local government, and interest groups such as the Nevada Alliance.
- Understanding of the national politics of the YMP, including the perspectives and positions of DOE/HQ, the Nevada congressional delegation, key House and Senate committees, and interest groups such as NEI and NARUC.
- Working relationships with policy staff at DOE and other federal agencies, congressional committees and Nevada's delegation, and other parties at interest.
- Ability to produce high-quality policy products, as demonstrated in resolutions, op-ed articles, letters, and policy papers for internal discussion and as public positions.

Socioeconomic & Fiscal Assessment; Community Planning

- Demonstrated expertise in community planning, socioeconomic analysis and local financial analysis, developed and applied in numerous and varied assignments.
- Detailed understanding of the methods and information resources for socioeconomic and local financial assessment, nationally and in Nevada.
- Ability to produce high-quality assessments and plans, and/or to manage complex projects involving interdisciplinary teams.

PROFESSIONAL EXPERIENCE: SUMMARY

The above qualifications were developed and demonstrated over a 30-year career in community planning, socioeconomic and fiscal analysis, and public policy assessment. Selected efforts are listed here and briefly described on pages 4ff.

1. Key Systems Assessment (The US Nuclear Waste Program)

- a) The geography of nuclear waste in the U.S.
- b) Systemwide transportation assessment.
- c) Regional transportation mode & route assessment.
- d) Total program life-cycle costs.
- e) Transportation systems costs: federal government & industry.
- f) Cumulative radiological burden: weapons testing, high & low-level waste disposal.
- g) Low-level waste shipment to the NTS.
- h) Interagency working groups.

2. Socioeconomic & Community Effects (The US Nuclear Waste Program)

- a) Host state (Nevada): socioeconomic project team.
- b) Host state (Nevada): socioeconomic impact summary reports.
- c) Major metro county (Clark County, NV): socioeconomic project team.
- d) Analytical description of a vulnerable sector: the Las Vegas gaming industry.
- e) Analytical description of a key industry: the Nevada Test Site.
- f) Regional economic contributions assessment.
- g) Nevada's state-local revenue system.

3. Policy Assessment & Recommendation (The US Nuclear Waste Program)

- a) Major metro county (Clark County/Las Vegas): YMP Impact Concerns.
- b) YMP site county (Nye County, NV): Community Protection Plan (CPP).
- c) YMP site county: CPP Implementation Plan.
- d) YMP site county: plan for emergency response & related services.
- e) YMP site county: policy for labor force & housing.
- f) YMP site county: nuclear waste transportation policy.
- g) YMP site county: transportation planning recommendations.
- h) YMP site county: advocacy of local government interests in a major national program.
- i) YMP site county: DOE/YMP policy oversight (transportation).
- j) YMP site county: strategic review of local initiatives.

4. Other Professional Experience

- a) Local community planning & development.
- b) The fiscal effects of metropolitan growth.
- c) "Programmatic" socioeconomic effects.
- d) Rapid change in rural contexts: the impacts of energy development.
- e) Economic-demographic projections in rural contexts.
- f) Regional energy economies: the contribution of coalbed methane in Poland.
- g) Western rivers: the proposed Truckee River operations agreement.
- h) The regional effects of electric energy restructuring.
- i) Downtown planning & development: Baltimore (MD) Metro Center Plan.
- j) Regional resource conservation: Maryland's Chesapeake Bay.
- k) Consulting organizations & project management.

EDUCATION & RELATED ACTIVITIES

- Williams College (Williamstown, Mass.): 1959-63 (BA)
- University of North Carolina (Chapel Hill, NC): 1963-65, 1967-68 (MRCP)
- Hays-Fulbright Grant (Denmark: National Academy, Town Planning): 1966-67
- Univ. of Colorado, Graduate School of Public Affairs: 1999- (Ph.D. candidate)
Courses include seminars in a) constitutional law, b) administrative law, c) public policy, d) public management and organizations, e) empirical inquiry.
- American Institute of Certified Planners, 1977-present.
- Rutgers Univ. (Camden, NJ): Instructor in Community Planning & Devel., 1971-75.
- Univ. of Col: School of Arch. & Plng., Dean Search & Advisory Committees, 1985-88.
- Univ. of Colorado at Denver: School of Arch. & Plng., Instructor, 1985-86.

WORK HISTORY

- Baltimore (MD) Regional Planning Council (Planner II, 1968-69)
- D.A. Crane Assoc., Phila. PA (Urban Design Plng. & Programming, 1969-70)
- WMRT, Philadelphia PA (Urban Design Project Manager, 1970-72)
- Murphy/Williams, Urban Planning Consultants (Partner, 1972-80)
- BMML, Boulder CO (Sr. Assoc., Socioeconomic Assessment, 1980-83)
- Denver Research Group, Denver CO (Director of Research, 1983-85)
- Planning Information Corporation, Denver CO (President, 1985-99)
- Socioeconomic & Public Policy Consultant, Denver CO (1999-)
- Voluntary Planner, Public Housing Project Modernization Plan, Philadelphia PA, 1970-71.
- President, Denver Neighborhood Improvement Assoc., 1985-87.
- Elected Board Officer, American Plng. Assoc., Col. Chapter, 1985-89.

Abbreviations used in this review include:

- NWPA: Nuclear Waste Policy Act.
- NWRPO: Nye County Nuclear Waste Project Office.
- YMP: the DOE Yucca Mountain Project.
- NTS: the Nevada Test Site
- DOE: the U.S. Department of Energy.
- DOE/OCRWM: DOE's Office of Civilian Radioactive Waste Management (responsible for the YMP).
- DOE/NNSA: DOE's National Nuclear Security Administration (responsible for NTS).
- DOE/EM: DOE's Office of Environmental Management (responsible for clean-up of DOE defense sites).
- DOT/FRA: the Federal Railroad Administration, in the U.S. Dept. of Transportation.
- NRC: the U.S. Nuclear Regulatory Commission.
- NWTRB: U.S. Nuclear Waste Technical Review Board.
- SNF: spent nuclear fuel, from commercial power production.
- HLW: high-level nuclear waste, generally from nuclear weapons production.
- LLRW: low-level radioactive waste, & TRU: transuranic waste.
- BWR: boiling-water nuclear reactors, & PWR: pressurized-water reactors.
- MTIHM: metric tons initial heavy metal.
- WMRT: Wallace McHarg Roberts & Todd, Urban Design & Environmental Planning, Phila. PA.
- BMML: Briscoe, Maphis, Murray & Lamont, Local Government Management, Boulder, CO.
- PIC: Planning Information Corp., Socioeconomic & Policy Analysis, Denver CO.