

2003 JAN 29 PM 3: 15

## WALTER J. ARABASZ

OFFICE OF THE SECRETARY  
RULEMAKINGS AND  
ADJUDICATIONS STAFF**Birthplace and Date:** Acushnet, Massachusetts, September 30, 1942.**Current Position:** Research Professor of Geology and Geophysics and Director, University of Utah Seismograph Stations; University of Utah, Salt Lake City, Utah.**Address:** 135 S 1460 E Rm 705 WBB, University of Utah, Salt Lake City, Utah 84112;  
**Tel:** 801-581-7410; **Fax:** 801-585-5585; **E-mail:** arabasz@seis.utah.edu.**Education:** B.S., Geology, summa cum laude, Boston College, 1964; M.S., Geology, California Institute of Technology, 1966; Ph.D., Geology and Geophysics, California Institute of Technology, 1971. Dissertation (supervised by Professor Clarence R. Allen): Geological and Geophysical Studies of the Atacama Fault Zone in Northern Chile.**Professional Positions:** Post-Doctoral Research Fellow, Dept. of Scientific and Industrial Research, Geophysics Division, Wellington, New Zealand, 1970-73; Research Scientist, Lamont-Doherty Geological Observatory, 1973-74; University of Utah (1974-present): Research Professor of Geology and Geophysics (since 1983); Director, University of Utah Seismograph Stations (since 1985).**Society Affiliations:** Seismological Society of America; American Geophysical Union; Geological Society of America; Earthquake Engineering Research Institute; Consortium of Organizations for Strong-Motion Observations Systems (COSMOS); Utah Geological Association.**Current Professional Activities:** Utah Seismic Safety Commission—Member (since 1994), past Chair (1994-2001), and Member, Geoscience Standing Committee (since 1994); Regional Coordinator, Advanced National Seismic System, Intermountain West Region (since 2000); Member, Infrastructure Protection Subcommittee, Utah Olympic Public Safety Command (since 1998).**General Statement of Experience:** Dr. Walter J. Arabasz has more than 30 years of professional experience in research, project management, consulting, and occasional teaching in observational seismology, tectonics, and earthquake hazard evaluation. He is the author or co-author of 37 published papers, 77 published abstracts and numerous technical reports. His present responsibilities at the University of Utah include seismological research and extensive project management—chiefly relating to the operation and modernization of a 160-station regional/urban seismic network covering Utah and neighboring parts of the Intermountain area.

He has been affiliated, since its inception, with the U.S. National Earthquake Hazards Reduction Program—variously as a Principal Investigator of funded research, as a participant in scores of workshops and conferences, and as a member of peer review panels. He has served on numerous national and state advisory and policy-making committees, including the Committee on Seismology of the National Research Council (1989-1994), the Board of Directors of the Seismological Society of America (1994-1997), the Council of the National Seismic System (1993-1999), a Senior Advisory Group to the U.S. Geological Survey for a 1999 report to Congress on an Assessment of Seismic Monitoring in the United States (1998-1999), and the Utah Seismic Safety Commission (1994-present). Since 1977 he has routinely provided professional consulting services on earthquake hazard evaluations for dams, nuclear facilities, and other critical structures and facilities for engineering firms, the International Atomic Energy Agency, the Department of Energy, the Soil Conservation Service, the Bureau of Reclamation, the Electric Power Research Institute, and the State of Utah.

**PUBLICATIONS AND SELECTED REPORTS SINCE 1990**

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- Arabasz, W. J., editor, 1990, Earthquake instrumentation for Utah, Report and Recommendations of the Utah Policy Panel on Earthquake Instrumentation, Utah Geological and Mineral Survey Open-File Report 168, 167 pp.
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### PROFESSIONAL CONSULTING

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2. International Atomic Energy Agency, Vienna, Austria (Short-Term Expert, Chile, 1979). Seismotectonic considerations in northern Chile, 21°-27° S, with respect to the siting of a nuclear power plant.
3. Weidlinger Associates, Menlo Park, California (1980). Geological and geophysical information relevant to site-dependent ground motions at Wing V (Wyoming-Nebraska-Colorado).
4. EG&G Idaho, Inc. (Department of Energy), Idaho Falls, Idaho (1980-81). Preparation and presentation of proposal for seismic risk zone revision in southeast Idaho to International Conference of Building Officials.
5. EG&G Idaho Inc. (Department of Energy), Idaho Falls, Idaho (1982). Document review: *Site Investigation at Idaho National Engineering Laboratory, LMFBR Large Developmental Plant (LDP), Conceptual Design Study-Phase III.*
6. Lindvall, Richter and Associates, Los Angeles, California (1981-82). Seismic safety investigation of eight Soil Conservation Service dams in southwestern Utah.
7. U.S. Bureau of Reclamation, Engineering and Research Center, Denver, Colorado (1982-83). Review and analysis of geologic, seismotectonic, and design data for the proposed Jordanelle Dam, Bonneville Unit, Central Utah Project, Utah. (Consultant review by W. J. Arabasz, R. H. Jahns, and R. B. Peck.)
8. EG&G Idaho, Inc. (Department of Energy), Idaho Falls, Idaho (1983). Member, Geotechnical Advisory Panel to assist EG&G Idaho, Inc. and DOE regarding programmatic efforts toward site characterization of the Idaho National Engineering Laboratory for the proposed siting of a New Production Reactor Facility.
9. Electric Power Research Institute, Palo Alto, California (1984). Participant, "Data Needs Workshop; regarding data management plan and tectonic evaluation for earthquake hazards in the eastern U.S.; participant and editor of *Proceedings of a Seminar on Defining Tectonic Mechanisms Causing Earthquakes in the Eastern United States.*
10. Dames & Moore, Golden, Colorado/Electric Power Research Institute (EPRI), Palo Alto, California (1984-85). Member of "Seismic Hazard Methodology Team," EPRI Seismic Hazards Research Program, for evaluation of earthquake hazards in the eastern United States for the siting of nuclear generating facilities. (Participation in seven formal workshops, two academic seminars, and three series of interactive meetings with six teams of tectonic evaluation contractors in the central and eastern U.S.).
11. Electric Power Research Institute, Palo Alto, California (1985-87). Participation in scientific review, technical description, and comparative evaluation of EPRI seismic hazard methodology for the central and eastern United States.

12. U.S. Bureau of Reclamation, Engineering and Research Center, Denver, Colorado (1986-87). Review and analysis of geologic, seismotectonic, and design data for the proposed Jordanelle Dam, Bonneville Unit, Central Utah Project. (Consultant review by R. B. Peck, W. J. Arabasz, G. S. Tarbox, and D. D. Campbell.)
13. U.S. Bureau of Reclamation, Engineering and Research Center, Denver, Colorado (1988). Review and evaluation of seismotectonic conclusions and details of final embankment dam design for Jordanelle Dam, Bonneville Unit, Central Utah Project. (Consultant review by R. B. Peck, W. J. Arabasz, and T. G. McCusker.)
14. Dames & Moore, Los Angeles, California (1989). Member of advisory panel for project on seismic code decisions under risk, sponsored by the National Science Foundation.
15. Lawrence Livermore National Laboratory, Livermore, California (1990-91). Member of Seismicity and Tectonic Expert Group, New Production Reactors Project, Idaho National Engineering Laboratory Site.
16. U.S. Bureau of Reclamation-Engineering and Research Center, Denver, Colorado, and Regional Office, Salt Lake City, Utah (1990-92). Review and evaluation of foundation conditions, ongoing geologic mapping procedures, and seismic-safety aspects of the Jordanelle Dam, Bonneville Unit, Central Utah Project. (Consultant review by W. J. Arabasz, R. B. Peck, and D. D. Campbell.)
17. Science Applications International Corporation, Las Vegas, Nevada (1991). Member of Peer Review Group for Early Site Suitability Evaluation of the Potential Repository Site at Yucca Mountain, Nevada.
18. Geomatrix Consultants, San Francisco, California (1991-92). Member of expert panel, Electric Power Research Institute High Level Waste (EPRI-HLW) project to assess earthquake and tectonic issues for the proposed high-level nuclear waste repository at Yucca Mountain, Nevada.
19. Risk Engineering, Inc., Golden, Colorado (1992-94). Investigator for Seismology as part of a Seismic Hazard Study for Systematic Evaluation Program, Rocky Flats Plant, conducted for EG&G Rocky Flats, Inc. and sponsored by the U.S. Department of Energy.
20. Woodward-Clyde Federal Consultants, Las Vegas, Nevada (1993-94). Technical reviewer for (1) *Topical Report: Methodology to Assess Seismic Hazards at Yucca Mountain* and (2) *Seismic Design Inputs for the Exploratory Studies Facility at Yucca Mountain*.
21. U.S. Bureau of Reclamation, Engineering and Research Center, Denver, Colorado (1994). Review of design, construction, and operation of Jordanelle Dam and Reservoir, Bonneville Unit, Central Utah Project, Utah. (Consultant review by W. J. Arabasz, D. D. Campbell, and R. B. Peck.)
22. Jack R. Benjamin & Associates, Inc., Mountain View, California (1994). Technical reviewer for *Probabilistic Seismic Hazard Assessment for the U.S. Army Chemical Demilitarization Facility, Tooele, Utah*.
23. TRW Environmental Safety Systems, Inc., Vienna, Virginia (1995). Member of expert team for seismic source characterization for a probabilistic seismic hazard assessment of a high-level nuclear waste repository at Yucca Mountain, Nevada.

24. Rutherford & Chekene, San Francisco, California (1995). Technical review and consulting advice on seismicity and ground-motion considerations for design of a manufacturing plant at Lehi, Utah, for Micron Technology, Inc.
25. TRW Environmental Safety Systems, Inc., Vienna, Virginia (1995). Organizer and chair of plenary session of FOCUS 95—Methods of Seismic Hazard Evaluation (a topical meeting co-sponsored by the American Nuclear Society and the Geological Society of America, September 18-20, 1995, Las Vegas, Nevada).
26. William Lettis & Associates, Inc., Walnut Creek, California (1995). Technical review and consulting advice on seismic source characterization for the stability evaluation of Lake Almanor and ButtValley Dams, California.
27. Parsons Brinckerhoff, Salt Lake City, Utah (1995-96). Member of Seismic Advisory Committee to Utah Department of Transportation for seismic hazard analysis of the I-15 interstate highway corridor (consulting undertaken under a University of Utah contract).
28. TRW Environmental Safety Systems, Inc., Vienna, Virginia (1996-98). Member of expert team for seismic source characterization for a probabilistic seismic hazard assessment of a high-level nuclear waste repository at Yucca Mountain, Nevada.
29. Utah Department of Environmental Quality (1998-2002). Seismicity and earthquake expert for evaluation of a proposed high-level radioactive waste storage facility in Skull Valley, Tooele County, Utah (consulting undertaken under a University of Utah contract).
30. Los Alamos National Laboratory, Los Alamos, New Mexico (2000-2001). Member of Laboratory Seismic Review Committee, Nuclear Materials and Stockpile Management Program, an advisory group on the Laboratory's seismic risks and hazards and related technical and operational activities.
31. U.S. Bureau of Reclamation, Engineering and Research Center, Denver, Colorado (2001). Review of seismic hazard and design of Deer Creek Dam and Reservoir, Utah. (Consultant review by W. J. Arabasz, J. Mitchell, and R. B. Peck).

**CLEAR REGULATORY COMMISSION**

Docket No. \_\_\_\_\_ Official Exh. No. 123  
In the matter of PFS  
Staff \_\_\_\_\_ IDENTIFIED ✓  
Applicant \_\_\_\_\_ RECEIVED ✓  
Intervenor ✓ \_\_\_\_\_ REJECTED \_\_\_\_\_  
Other \_\_\_\_\_ WITHDRAWN \_\_\_\_\_  
DATE 5-17-02 Witness \_\_\_\_\_  
Clerk D. Keut