

## James Prikryl

### Statement of Professional Qualifications

Senior Research Scientist  
Geosciences and Engineering Division  
Center for Nuclear Waste Regulatory Analyses  
Southwest Research Institute®  
San Antonio, Texas

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of:	POWERTECH USA, INC. (Dewey-Burdock In Situ Uranium Recovery Facility)
	ASLBP #: 10-898-02-MLA-BD01 Docket #: 04009075 Exhibit #: NRC-006-00-BD01 Admitted: 8/19/2014 Rejected: Other:
	Identified: 8/19/2014 Withdrawn: Stricken:

#### Education

M.A., Geology, University of Texas at Austin, 1989  
B.S., Geology, University of Texas at Austin, 1984

#### Appointments

2004-Present Senior Research Scientist, Southwest Research Institute, San Antonio, Texas  
1994-2004 Research Scientist, Southwest Research Institute, San Antonio, Texas  
1990-1994 Scientist, Southwest Research Institute, San Antonio, Texas  
1988-1990 Research Specialist, Texas A&I University, Kingsville, Texas  
1987-1988 Consulting Geologist, Austin, Texas

#### Statement of Qualifications

Mr. Prikryl is an earth scientist with expertise in regulatory analysis, field and laboratory investigation of geologic, hydrologic, and geochemical systems, and environmental geophysics. His expertise spans: review and preparation of environmental impact statements and environmental assessments; innovative field investigations at uranium ore deposits; and site characterization surveys using surface-based geophysical techniques.

Mr. Prikryl is a principal investigator on National Environmental Policy Act (NEPA)-related environmental impact statements for U.S. Nuclear Regulatory Commission (NRC)-regulated uranium mining and milling operations. He contributes to environmental evaluations, including the areas of geology, water resources, land use, transportation, socioeconomics, noise, cultural and historic resources, and environmental justice. He contributed to the NRC generic environmental impact statements for *in-situ* recovery and milling facilities for uranium in four western states and for post-licensing storage of spent nuclear fuel. Other NRC projects Mr. Prikryl has worked on include the waste confidence decision rulemaking, licensing activities associated with nuclear power plants, nuclear fuel fabrication facilities, and spent nuclear fuel interim storage facilities.

Mr. Prikryl evaluates various geochemical, geologic, and environmental aspects of high-level radioactive waste disposal systems. He was a technical reviewer of the license application for the high-level waste geologic repository at Yucca Mountain, Nevada. He worked extensively at the Nopal I uranium deposit in Chihuahua, Mexico, which was studied as an analog to the proposed Yucca Mountain repository. Mr. Prikryl has developed laboratory programs to determine the thermodynamic properties of uranium minerals and characterize the sorptive behavior of geologic media with respect to radiological constituents.

Mr. Prikryl is project manager for site characterization activities involving surface-based geophysical surveys. He has conducted geophysical site characterization surveys for commercial and government clients throughout the U.S. and abroad. He has particular expertise in applying geophysical survey results to environmental and geotechnical problems, groundwater investigation, karst systems, and natural resource evaluation.

Before joining Southwest Research Institute, Mr. Prikryl was a research specialist with the Department of Geosciences at Texas A&I University in Kingsville, Texas, where he coordinated laboratory activities supporting faculty and graduate research. While at Texas A&I, he conducted geologic and geochemical studies of Gulf Coast sedimentary horizons being considered for waste disposal.

Mr. Prikryl has published numerous papers in the peer-reviewed literature.