


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-007-00-BD01
	Admitted: 8/19/2014
	Rejected:
	Identified: 8/19/2014
	Withdrawn:
	Stricken:
	Other:

AMY HESTER

Statement of Professional Qualifications

Research Scientist  
Geosciences and Engineering Division, Southwest Research Institute, San Antonio, TX

Education

University of Kansas - Environmental Studies, B.A, 1998

Appointments

- 2008-Present Research Scientist, Southwest Research Institute, San Antonio, Texas
- 2004-2008 Senior Environmental Scientist, Medina Consulting Company, Inc., San Antonio, Texas
- 2003-2004 Environmental Scientist, Mid-Atlantic Associates, Inc., Colmar, Pennsylvania
- 2001-2002 Senior Staff Environmental Scientist, Geocon, Inc., Rancho Cordova, California
- 1998-2001 Staff Environmental Scientist, Geocon, Inc., Rancho Cordova, California

Professional Summary

Ms. Hester is an experienced environmental scientist. She specializes in preparing environmental assessments and environmental impact statements. Ms. Hester is experienced in conducting due diligence evaluations in accordance with local, state and federal regulations, as well as a variety of technical field investigations.

Ms. Hester contributes to environmental evaluations, including the areas of ecology, historical preservation, socioeconomics, and environmental justice, for the U.S. Nuclear Regulatory Commission (NRC) and other clients. She contributes to reviewing and preparing National Environmental Policy Act (NEPA) documents. Some of the NRC projects that she has worked on include the waste confidence decision rulemaking, proposed *in-situ* leach uranium recovery facilities, licensing activities associated with nuclear power plants and spent nuclear fuel storage installations, and an environmental topical report for a nuclear fuel reprocessing facility. She also has participated in an environmental audit for a steel mill in Mexico. In addition, Ms. Hester has participated in laboratory experiments to determine plutonium sorption onto geologic materials. Furthermore, she has completed training based in part on the U.S. Army Corp. of Engineers 1987 Wetland Delineation Manual, as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator certification program.

Before joining Southwest Research Institute, Ms. Hester was an environmental consultant. She contributed technically in data interpretation, selection of remedial approach, preparation of closure reports for state agencies, characterization of waste, development of stormwater plans, and presentation of findings to clients and regulatory agencies. Her supervisory functions included assignment of support personnel, subcontractor procurement, and supervision of field activities. Her field investigations included air monitoring; groundwater and drinking water sampling using various water meters, pumps, and gauges; contractor oversight for site remediation; and soil sampling associated with a wide variety of environmental impacts. Ms. Hester managed projects associated with leaking underground storage tanks, environmental due diligence for commercial and industrial properties, NEPA reviews and related assessments for cellular towers pursuant to the Federal Communications Commission regulations,

geotechnical explorations, and asbestos and lead surveys. Her broad experience encompasses marketing, budget and scope of work development, and preparation of proposals.

Ms. Hester has written hundreds of Phase I and Phase II Environmental Site Assessments and is a qualified environmental professional according to 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries, and ASTM E 1527-05. She has contributed to conducting sensitivity analyses using a biosphere dose model, evaluating the potential hydrologic performance of Department of Energy (DOE) grout formulations for tank-waste-stabilizing grout monoliths, and predicting increased atmospheric carbon dioxide effects on environmental transport of radionuclides in a karst aquifer system. Ms. Hester prepares proposals and performs as a principal investigator.

#### **Publication Contributions in the Past 5 Years**

1. U.S. Nuclear Regulatory Commission (2009). "Final Environmental Assessment for the Renewal of U.S. Nuclear Regulatory Commission License No. SNM-1097 for Global Nuclear Fuels-Americas, Wilmington Fuel Fabrication Facility." Washington, D.C. (General support and reviewer)
2. J.W. Mancillas, O. Pensado, and A. Glovan. (2009) "A Biosphere Sensitivity Analysis using BDOSE Version 2.0." Center for Nuclear Waste Regulatory Analyses, San Antonio, Texas.
3. U.S. Nuclear Regulatory Commission (2010). "Environmental Impact Statement for the Moore Ranch ISR Project in Campbell County, Wyoming: Supplement to the Generic Environmental Impact Statement for *In-Situ* Leach Uranium Milling Facilities (Final Report)." NUREG-1910, Supplement 1. Washington, D.C. (Ecological resources)
4. U.S. Nuclear Regulatory Commission (2011). "Final Environmental Assessment for the Proposed Renewal of U.S. Nuclear Regulatory Commission License No. SNM-124 for Nuclear Fuel Services, Inc." Washington, D.C. (Ecological resources)
5. U.S. Nuclear Regulatory Commission (2011). "Environmental Impact Statement for the Nichols Ranch ISR Project in Campbell and Johnson Counties, Wyoming: Supplement to the Generic Environmental Impact Statement for *In-Situ* Leach Uranium Milling Facilities (Final Report)." NUREG-1910, Supplement 2. Washington, D.C. (Ecological resources)
6. U.S. Nuclear Regulatory Commission (2011). "Environmental Impact Statement for the Lost Creek ISR Project in Sweetwater County, Wyoming: Supplement to the Generic Environmental Impact Statement for *In-Situ* Leach Uranium Milling Facilities (Final Report)." NUREG-1910, Supplement 3. Washington, D.C. (Ecological resources)
7. U.S. Nuclear Regulatory Commission (2012). "St. Lucie Nuclear Plant, Units 1 and 2, Environmental Assessment and Finding of No Significant Impact Related to the Proposed License Amendment to Increase the Maximum Reactor Power Level." Washington, D.C. (Principal investigator)
8. U.S. Nuclear Regulatory Commission (2012). "Environmental Topical Report for Potential Commercial Spent Nuclear Fuel Reprocessing Facilities in the United States." Washington, D.C. (NEPA issues and socioeconomic, environmental justice, visual, and historic resources)
9. U.S. Nuclear Regulatory Commission (2013). "Draft Environmental Assessment for the Proposed Renewal of U.S. Nuclear Regulatory Commission License No. SNM-2506 for Prairie Island Independent Spent Fuel Storage Installation, Docket No. 72-0010." Washington, D.C. (Principal investigator)
10. U.S. Nuclear Regulatory Commission (2014). "Environmental Impact Statement for the Dewey Burdock Project in Custer and Fall River Counties, South Dakota: Supplement to the Generic Environmental Impact Statement for *In-Situ* Leach Uranium Milling Facilities (Final Report)." NUREG-1910, Supplement 4. Washington, D.C. (Ecological resources)