


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-002-R-00-BD01
	Admitted: 8/19/2014
	Rejected: Other:
	Identified: 8/19/2014 Withdrawn: Stricken:

NRC-002-R

**Po-Wen (Kevin) Hsueh**

## **Statement of Professional Qualifications**

Branch Chief, Research and Test Reactors Oversight Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

### **EDUCATION AND CERTIFICATION**

#### **Doctor of Philosophy in Nuclear Engineering, 1995**

Massachusetts Institute of Technology, Cambridge, Massachusetts.

#### **Master of Science in Nuclear Engineering, 1985**

#### **Bachelor of Science in Nuclear Engineering, 1983**

National Tsing Hua University, Hsinchu, Taiwan, Republic of China

Certified Health Physicist, American Board of Health Physics, 1997

Recertification in 2001, 2005, 2009, and 2013

Certificate in the National Environmental Policy Act, 2012

Duke Environmental Leadership Program

Duke University

### **PROFESSIONAL EXPERIENCE**

#### **U.S. NUCLEAR REGULATORY COMMISSION**

#### **Branch Chief, Research and Test Reactors Oversight Branch     July 2014 —**

Division of Policy and Rulemaking

Office of Nuclear Reactor Regulation

Supervise 10 technical staff responsible for inspection, reactor operator licensing, and security oversight of the 31 active Research and Test reactors. Specifically, the Branch is responsible for (1) inspecting each facility periodically to ensure that licensees operate their facilities in accordance with the NRC's safety and security requirements, and license conditions; (2) administering a comprehensive written exam and a hands-on operating test to ensure operators possess the required knowledge, skills and abilities to operate the reactors; and (3) reviewing the reactor's security plans, as well as its operations and design to ensure protection of public health and safety.

**Branch Chief, Environmental Review Branch      February 2010 – July 2014**  
Division of Waste Management and Environmental Protection  
Office of Federal and State Materials and Environmental Management Programs

Supervised a staff of technical professionals responsible for preparing Environmental Impact Statements (EISs), Supplemental Environmental Impact Statements (SEISs), and Environmental Assessments (EAs) for the Office of Federal and State Materials and Environmental Management Programs and Office of Nuclear Material Safety and Safeguards licensing and rulemaking activities, and for reviewing other agency's environmental review documents.

**Branch Chief, Rulemaking Branch A      February 2007 – February 2010**  
Division of Intergovernmental Liaison and Rulemaking  
Office of Federal and State Materials and Environmental Management Programs

Supervised a staff of technical professionals with responsibility for developing and revising regulations and other rulemaking related activities such as guidance development and petition for rulemaking for the Office of Federal and State Materials and Environmental Management Programs, Office of Nuclear Material Safety and Safeguards, and the Office of Nuclear Security and Incident Response.

Oversaw the preparation of guidance materials for materials licensees and NRC staff concerning Naturally Occurring and Accelerator Produced Radioactive Material:

- NUREG-1556, Volume 21, *Program-Specific Guidance About Possession Licenses for Production of Radioactive Material Using an Accelerator*
- NUREG-1556, Volume 13, Revision 1, *Program-Specific Guidance About Commercial Radiopharmacy Licenses*
- NUREG-1556, Volume 9, Revision 2, *Program-Specific Guidance About Medical Use Licenses*

Oversaw six major rulemaking activities:

- National Source Tracking System Expansion rule
- *In-situ* Leach rule
- General License (GL) Restrictions rule
- Fingerprinting rule
- Material Control and Accounting rule
- Exemption rule

Oversaw five petition activities:

- General License petition
- State of Washington petition on Global Positioning System
- Two-person rule petition
- Part 20 rulemaking petition for inclusion of chemical uranium concentration limits
- State of Colorado rulemaking petition for general licenses for small quantities of source material under 10 C.F.R. § 40.22 GL.

**Health Physicist, Agreement State Programs**      **June 2006 – February 2007**  
Division of Materials Safety and State Agreements  
Office of Federal, State Materials and Environmental Management Programs

**Health Physicist,**      **January 1998–June 2006**  
**Former Office of State and Tribal Programs**

Served as Project Manager for the National Materials Program pilot program. Provided overall project management for the pilot program including more than 35 Agreement States regulating approximately 20,000 radioactive materials licenses in the U.S. Coordinated and participated in periodic teleconferences with NRC senior management, the Organization of Agreement States leaders, and Conference of Radiation Control Program Directors on the development of guidance documents and staff procedures for pilot projects.

**Plant Engineer/Radiation Safety Officer**      **August 1995–August 1997**  
Professional Laundry Management, Inc., Garner, Illinois

Oversaw the construction of the nuclear laundry facility and supervised a staff of Health Physics technicians/engineers. Managed the radiation safety program and the engineering/maintenance program. The facility provided nuclear laundry services to several nuclear power plants.

**Research Assistant**      **January 1992–May 1995**  
Nuclear Reactor Laboratory  
Massachusetts Institute of Technology, Cambridge, Massachusetts

Served as Research Assistant in the development and operation of an in-pile Pressurized-Water-Reactor Coolant Chemistry Loop that closely simulates the primary coolant system of a Pressurized Water Reactor. Duties included operating and maintaining the Pressurized-Water-Reactor Coolant Chemistry Loop, taking a variety of samples from the loop for radiological and chemical analyses, and performing sample analyses.

**Health Physicist**      **October 1985–October 1991**  
Institute of Nuclear Energy Research, Lungtan, Taiwan, Republic of China

Supervised a staff of Health Physics technicians for radiation control and protection of a Radioisotope Production Facility, and a High Radioactivity Laboratory in support of a Canada Deuterium Uranium Research reactor.