


In the Matter of: SHINE MEDICAL TECHNOLOGIES, INC. (Medical Radioisotope Production Facility)	
Commission Mandatory Hearing	
	Docket #: 05000608 Exhibit #: SHN-023-MA-CM01 Admitted: 12/15/2015 Rejected: Other:
	Identified: 12/15/2015 Withdrawn: Stricken:

Tamela B. Wheeler

Consulting Engineer

Energy (Nuclear)

Profile

Mrs. Wheeler has over 20 years of experience in the nuclear industry supporting safety analysis and radiological protection, providing support at a number of U.S. Department of Energy (DOE) facilities, at three U.S. Nuclear Regulatory Commission (NRC) licensed nuclear fuel and uranium hexafluoride facilities, and for two National Aeronautics Space Administration (NASA) space missions and one NASA testing facility. Ms. Wheeler is skilled in facility/process hazard analysis, safety analysis and reporting, licensing, and risk assessment. In the area of radiation protection, she has supported dose assessments, environmental monitoring, radionuclide transport modeling, and radiation work planning.

Key experience

- Safety Basis Documentation
- Hazards Analysis
- Radiation Protection
- Quality Assurance
- Certified Health Physicist

Profession

Nuclear Safety

Work history

2014 Joined Atkins

2009 – 2014 Nuclear Safety Associates

Years with other firms:14

Qualifications

M.S., Health Physics, Georgia Institute of Technology, 1994

B.S., Physics, Valdosta State University, 1993

Clearance

DOE Q (Active)

Experience

Atkins [2009 – Present] Consulting Engineer – Safety basis analyst – hazards identification, categorization and analysis; accident initiator identification, sequence development and consequence analysis for unmitigated / mitigated chemical and radiological releases; identification and application of countermeasure and controls; preparation of safety basis documentation.

Nevada National Security Site (NNSS), Los Alamos National Laboratory (LANL), and Idaho National Laboratory (INL) – currently supporting DOE safety analysis activities for the NNSS. Specific tasks include dispersion analysis, hazards analysis, and consequence analysis utilizing such computational tools as MACCS2, POSTMAX, and GENII2 dispersion codes. Use of the computational tools also required Quality Assurance testing and documentation. She has also assisted in the preparation of gap analyses based on DOE-STD-3009-2014 for selected facilities at NNSS.

International Isotopes Fluorine Products (IIFP), Inc. – provided licensing support, safety analysis, and environmental assessment preparation for a first-of-its-kind depleted uranium de-conversion facility and the first licensed source material facility to implement a full-integrated safety analysis, consistent with requirements of Part 70, Subpart H of NRC regulations.

SHINE Medical Isotopes, Inc. – provided safety analysis and environmental assessment support for the licensing effort. Specific tasks included accident analysis and preparation of a normal operations dose assessment utilizing the GENII2 code.