

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of:	SHINE MEDICAL TECHNOLOGIES, INC. (Medical Radioisotope Production Facility)
Commission Mandatory Hearing	
Docket #:	05000608
Exhibit #:	SHN-009-MA-CM01
Admitted:	12/15/2015
Rejected:	
Other:	
Identified:	12/15/2015
Withdrawn:	
Stricken:	

Exhibit SHN-009

Resumé

ALAN HULL



Education

*PhD Geological Sciences,
University of California,
California, Santa Barbara,
1990*

*MSc (with Distinction)
Geology, Victoria University
of Wellington, Wellington,
N.Z., 1985*

*BSc (Hons) Geology,
Victoria University of
Wellington, Wellington,
N.Z., 1977*

Professional Certifications

*California Professional
Geologist #7461,
2002*

*California Certified
Engineering Geologist
#2315,
2004*

Golder Associates Inc.

Principal--Global Seismic Hazard Practice Leader

Dr Hull is a geologist with extensive experience in the evaluation of the sources of earthquake hazard and risk, both for sites and over broad regions. He has led a wide variety of investigations where earthquake hazard has been a critical constraint to project development and design. The studies have involved investigations of the location and activity of faults, and probabilistic and deterministic seismic hazard analyses for sites worldwide. Dr Hull has been appointed as an independent reviewer of seismic hazard assessments in the USA, Chile and Peru, Panama (Panama Canal Authority), China and Vietnam (Intel), New Zealand and Australia. He has authored more than 50 peer-reviewed journal publications and more than 150 client-focused reports.

Employment

Golder Associates Inc. – Redmond, Washington

Principal, Seismic Hazard Assessment Services (2001 to Present)

Global leader of site-specific seismic hazard assessment for hydro and tailings dam sites, high-pressure gas and oil pipelines, mine and oil and gas infrastructure; and other mission-critical structures.

Prior to joining Golder, Dr. Hull spent 20 years with GNS Science (New Zealand) undertaking fundamental and applied research on earthquake hazards and their impacts.

SHINE Project Role

Dr Hull led Golder's review, analysis and reporting of interpretations of the sources of past and potential earthquakes within about 200 miles of the SHINE site. Using the results of these analyses and recent seismic hazard modelling by the US Geological Survey, he developed the seismic criteria used for liquefaction analysis and seismic design at the SHINE site.

Related Experience

Earthquake Ground Motions Development for Shaft Design for OPG, Bruce A Nuclear Power Generation Site, Ontario, Canada. Peer-review of probabilistic seismic hazard analysis (PSHA) (AMEC-Geomatrix) for the NWMO Deep Geologic Repository site. Selected the design earthquake(s) and associated ground motions to assess the potential impact of earthquake ground motions on the Deep Geologic Repository; and analysis of the response of underground facilities to earthquake shaking. Developed horizontal and vertical peak ground velocities to analyse the seismic performance of the Deep Geologic Repository shaft.

Peer-review of geologic investigations of Yangsang and Ulsan faults for Wolsang Nuclear Power Plant Expansion, South Korea. Independently confirmed and verified field data collected by Korean scientists from structural geological, historical seismicity and tectonic geomorphology analyses. Undertook aerial photograph and field checks at key localities. Recommended appropriate methods and field sites for further investigations where Quaternary (last 2.6 million years) deformation appeared probable and significant for fault rupture and earthquake ground motions analyses.