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OFFICE OF SECRETARY
DOCKETING & SERVICE
BRANCH**SUMMARY OF QUALIFICATIONS:**

Over 18 years experience in the radiological physics and radiation protection fields. Hold a Ph.D. in medical & health physics, ABHP certification, and have a background in radiosurgical physics, clinical medical physics, regulatory compliance, shielding design, and reactor health physics.

CERTIFICATION:

American Board of Health Physics, Comprehensive Practice, October, 1990, renewed Dec. 1994.

PROFESSIONAL ACHIEVEMENTS:**Health Physics**

- * Supervised campus wide radiation protection programs at University of Virginia and Georgia Institute of Technology. Both positions included oversight of research reactor health physics.
- * Member of Virginia Governor's Commission on Low Level Radioactive Waste Disposal
- * Past president of Virginia Health Physics Society.
- * Designed facility shielding and obtained radioactive materials licenses for 7 gamma knife sites.
- * Established radiation protection programs and obtained NRC licenses for 2 genetic engineering firms.

Stereotactic Radiosurgery

- * Currently medical physicist for Gamma Knife unit at Good Samaritan Hospital, Los Angeles. Participated in treatment of over 750 patients to date.
- * Medical physicist at University of Virginia Gamma Knife Center. Participated in treatment of over 300 patients.
- * Developed software/hardware system for gamma knife treatment planning.
- * Trained gamma knife physicists for 5 gamma knife sites.

EDUCATION:

Ph.D., Bioengineering (specialty in medical & health physics), Texas A&M University, College Station, Texas, 1983.

ME., Biomedical engineering (specialty in medical physics), University of Virginia, 1977.

BA., Environmental Science, University of Virginia, Charlottesville, VA, 1975.

NUCLEAR REGULATORY COMMISSION

Docket No. 50-160-REN EXHIBIT NO. 1
 In the matter of Go Jack
☐ Staff ☐ Applicant ☒ Intervenor ☐ Other _____
☒ Identified ☐ Received ☐ Rejected Reporter GLW
 Date 5/20/96 Witness BC

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EXPERIENCE:

January, 1991 to present; Good Samaritan Hospital, Los Angeles, CA
Director of Medical Physics and Radiation Safety Officer. Provide radiological physics support for clinical activities in the Gamma Knife Radiosurgery Unit and Radiation Oncology Dept.
Supervise hospital radiation safety program.

July 1990 to November 1990; Georgia Institute of Technology, Atlanta, GA
Senior Research Scientist and Manager, Office of Radiation Safety. Supervised the Georgia Tech. radiation safety program on campus and at the Neely Nuclear Research Center (5MW research reactor).

July, 1989 to June 1990; University of Virginia Medical Center, Charlottesville, VA
Clinical gamma knife physicist at the Lars Leksell Radiosurgery Facility.

1983 to June 1989; University of Virginia, Charlottesville, VA
Radiation Safety Officer and Lecturer, General Faculty. Supervised the University's radiation protection program including activities in approx. 400 research labs, Nuclear Medicine Dept., Radiology Dept., Radiotherapy Dept. and a 2MW research reactor facility.

1977 to 1983; Texas A&M University College Station, TX
Research Assistant, Division of Nuclear Medicine, College of Veterinary Medicine. Concurrently radiological physicist for Texas A&M/ MD Anderson Hospital neutron therapy research project.

1975 to 1977; University of Virginia, Charlottesville, VA
Research Assistant in Radiological Physics Dept. and Health Physicist in Radiation Safety Office.

PROFESSIONAL AND HONORARY SOCIETIES:

- * American Association of Physicists in Medicine
- * International Stereotactic Radiosurgery Society
- * Health Physics Society
- * President, 1986-88, Virginia Chapter, Health Physics Society
- * Executive Council Member, 1987-90, American Nuclear Society
- * Tau Beta Phi (honorary engineering society)

PUBLICATIONS:

Young RF, Vermeulen SS, Posewitz AE, Grimm P, Blasko J, Jacques DB, Rand RW, Copcutt BG. *Functional Neurosurgery with the Leksell Gamma Knife, Radiosurgery*. Kondziolka D (ed), 1995.

Young RF, Jacques DB, Duma C, Rand RW, Henderson J, Vermeulen SS, Grimm P, Blasko JC, Posewitz AE, Copcutt BG, Bolles GE, Breeze RE, Prible SG, Winston K, Johnson SD. *Gamma Knife Radiosurgery for Multiple Brain Metastases*, Radiosurgery, Knodziolka D. (ed), 1995.

Young RF, Jacques DB, Rand RW, ... Copcutt BG. *Technique of Stereotactic Medial Thalamotomy with the Leksell Gamma Knife for Treatment of Chronic Pain*. *Neurol Res* 1995;17:59-65.

Young RF, Vermeulen SS, Grimm P, Posewitz AE, Jacques DB, Rand RW, Copcutt BG. *Gamma Knife Thalamotomy for the Treatment of Persistent Pain*. *Stereotactic and Functional Neurosurgery* 1995; 64; 172-181.

Rand RW, Jacques DB, Melbye RW, Copcutt BG, Levenick MN. *Leksell Gamma Knife Treatment of Tic Douloureux*. *Stereotactic and Functional Neurosurgery* 1993;61(suppl);93-102.

Rand RW, Jacques DB, Melbye BG, ... Copcutt BG. *Gamma Knife Thalamotomy and Pallidotomy in Patients with Movement Disorders: Preliminary Results*. *Stereotactic Functional Neurosurgery* 1993;61(Suppl);65-92.

PRESENTATIONS :

Copcutt, BG. *Physical Aspects of Stereotactic Radiosurgery*. Presented at Symposium on Advances in Clinical Neurosciences, Rancho Mirage, CA, Dec. 10-12, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Leksell Gamma Knife for Metastatic Brain Tumors*. (Abstract), presented at 1993 Annual Meeting of the Western Neurosurgical Society, Mauna Lani, Hawaii, Sept. 19-22, 1993.

Young RF, Rand RW, Jacques DB, Copcutt BG. *Stereotactic Medial Thalamotomy with the Leksell Gamma Knife for Treatment of Chronic Pain*. (Abstract), presented at the 1993 Annual Meeting of the Western Neurosurgical Society, Mauna Lani, Hawaii, Sept. 19-22, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Treatment of Metastatic Brain Tumors with the Gamma Knife*. (Abstract), presented at the 1993 Annual Meeting of the International College of Surgeons, US. Section, Seattle, WA, July 27 - Aug. 1, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Radiosurgery for Metastatic Brain Tumors*. (Abstract), presented at the First Congress of the International Congress on Minimal Techniques in Neurosurgery, Wiesbaden, Germany, June 15-19, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Radiosurgery for Acoustic Neuromas*. (Abstract), presented at the First Congress of the International Congress on Minimal Techniques in Neurosurgery, Wiesbaden, Germany, June 15-19, 1993.

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Young RF, Rand RW, Jacques DB, Copcutt BG. *Stereotactic Medial Thalamotomy with the Leksell Gamma Knife for Treatment of Chronic Pain*. (Abstract), First Congress of the International Radiosurgery Society, Stockholm, Sweden, June 16-19, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Stereotactic Radiosurgery for Metastatic Brain Tumors*. (Abstract), presented at the 75th Annual Meeting of the American Radium Society, Aruba, April 24-28, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Metastatic Brain Tumors Treated by Stereotactic Radiosurgery*. (Abstract), presented at the 41st Annual Meeting of the Radiation Research Society, Dallas, TX, March 19-25, 1993.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Metastatic Neoplasms of the Brain Treated by the Leksell Gamma Knife*. (Abstract), presented at the 46th Annual Meeting of the Society of Surgical Oncology, Los Angeles, CA, March 18-21, 1993.

Rand RW, Jacques DB, Melbye RW, Copcutt BG, Levenick MN. *Leksell Gamma Knife for Primary and Metastatic Neoplasms of the Brain*. (Abstract), International Symposium on Stereotactic Neuro-Radiosurgery, Vienna, Austria, October 11-14, 1992.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Leksell Gamma Knife Radiosurgery for Primary and Metastatic Neoplasms of the Brain*. (Abstract), presented at the 5th Annual Canadian Neuro-Oncology Meeting, Ontario, June 4-7, 1992.

Melbye RW, Copcutt, BG, Rand RW, Jacques DB, Pitts FW. *Gamma Knife Radiosurgery - Experience with 100 Patients*. (Abstract), presented at the Radiation Research Society, 4th Annual Meeting, Salt Lake City, Utah, March 16, 1992.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN. *Functional Stereotactic Radiosurgery in Movement Disorders and Tic Douloureux*. (Abstract), presented at the 4th Annual Meeting of the Leksell Gamma Knife Users' Group, Buenos Aires, Argentina, March 7-9, 1992.

Rand RW, Jacques DB, Copcutt BG, Melbye RW, Levenick MN, Pitts FW. *Gamma Knife Radiosurgery for Brain Tumors and Arteriovenous Malformations*. (Abstract), presented at the Pan Pacific Surgical Association, Honolulu, Hawaii, January 26-30, 1992.

Rand RW, Jacques DB, Copcutt BG. *Early Experiences with the Leksell Gamma Knife*. (Abstract), presented at Western Neurosurgical Society Meeting, September 24, 1991.

Copcutt BG. *Licensing and Installation of a Leksell Gamma Knife Unit*. Presented at the 1st Annual Meeting of the Elekta Gamma Knife Users' Group, Charlottesville, Virginia, May 1-3, 1989.

Gross DR, Beasley CW, Copcutt BG. *Real Time Determination of Rb81/Kr81m ratio to Determine Blood Flow in Subcutaneous Tissues Under Pressure*. (Abstract), presented at the 5th Annual Conference on Rehabilitation engineering, 1982.

REFERENCES:

- * Prof. Ladislau Steiner, MD., Ph.D., Director, Lars Leksell Radiosurgery Facility, University of Virginia Medical Center, Charlottesville, VA.
- * Catherine Gilmore, President, Elekta Radiosurgery, Inc., Atlanta, GA.
- * Deane B. Jacques, MD., Medical Director, The Neurosciences Institute, Good Samaritan Hospital, Los Angeles, CA.
- * Larry Atkins, President and CEO, American Health Services, Inc., Newport Beach, CA.
- * Ronald F. Young, MD., Medical Director, Northeast Hospital Gamma Knife Center, Seattle, WA.