



## KENNETH KALISKI, PE, INCE BD. CERT.

Senior Director

Ken Kaliski has over 25 years of experience, having worked in all of RSG’s market areas with a focus on engineering and advanced analytics. His technical specialty is in noise control engineering, where he works on projects such as community noise monitoring and modeling, architectural acoustics, transportation noise, and industrial noise control. He also works on complex modeling projects in the fields of market and energy research. Ken is the co-holder of Patent 7,092,853 for an Environmental Noise Monitoring System.

### EXPERIENCE

28 years

### EDUCATION

BE, Engineering, Thayer School of Engineering, Dartmouth College (2002)

AB, Biological Sciences and Environmental Studies, Dartmouth College (1985)

### PROJECT EXPERIENCE

**VELCO Northwest Reliability Project, VT** – directed the noise studies required for the VELCO Northwest Reliability Project (NWRP). This project involved sound monitoring and/or sound propagation modeling at 12 substations. Measurement protocols were developed to meet IEC/IEEE standards for transformer and other noise-generating equipment. The measurement protocols also were developed for use in calibrating sound propagation models, so included directionality measurements of the transformers and property line/fence-line measurements. Modeling was conducted using the Cadna A sound propagation software to determine impacts at the nearest residences for several of the substations. Many different types of equipment were modeled, including transformers, a shunt reactor, synchronous condensers, and a phase angle regulator transformer. Design detail testimony was prepared and submitted to the PSB and live testimony was given before the board.

**Susquehanna-Roseland Powerline Project** – Conducted the noise assessment for the Environmental Impact Assessment of the 500 kV Susquehanna-Roseland Powerline Project, evaluating alternatives through federal lands in and around the Delaware Water Gap National Recreation Area and Appalachian Trail.

**VELCO Highgate, VT** – Directed the noise study for the VELCO Highgate project, an inverter station on the Vermont/Canadian border. Short- and long-term sound measurements were made in and around the substation prior to and after upgrades were made to the transformers and cooling system. Sound propagation modeling was conducted to assess noise impacts on the surrounding neighborhood.

**Meldahl Transmission Line** – Conducted a noise impact study of the proposed Meldahl transmission line in and around Washington, Ohio. The project included



background sound monitoring, and modeling sound from the substation and transmission line. Testimony was provided to the Ohio Power Siting Board.

**East Avenue Loop, VT** – conducted noise measurements and modeling for VELCO's and Burlington Electric Department's proposed East Avenue Loop project. The project included monitoring a distribution transformer that was to be relocated, monitoring sound levels at two other substations, and forecasting changes in sound levels after modifications to the substations were completed. Reports and exhibits were filed through Vermont's Section 248 proceeding.

### SELECTED PUBLICATIONS

McCunney, R., Mundt, K., Colby, D., Dobie, R., Kaliski, K., and Blais, M., "Wind Turbines and Health; A Critical Review of the Scientific Literature," *J. Occupational and Environmental Medicine* 56(11) 2014.

Kaliski, K., Neeraj, G., Prevalence of complaints related to wind turbine noise in northern New England," *Proceedings of Meetings on Acoustics*, Vol 19, 2013

Kaliski, K., Old, I., Blomberg, L., "Sound emissions from a plug-in electric vehicle," *Proceedings of the 2012 Institute of Noise Control Engineers InterNoise 2012*

Kaliski, K., Wilson, D.K., Vecherin, S., Duncan, E., "Improving Predictions of Wind Turbine Noise Using PE Modeling," *Proceedings of the 2011 Institute of Noise Control Engineers NOISECON 2011*

Kaliski, K., and Duncan, E. "Calculating Annualized Sound Levels for a Wind Farm," *Acoustical Society of America, Proceedings of Meetings on Acoustics*, Vol. 9, 2010.

Park, L, Lawson, S, Kaliski, K., Newman, P. and Gibson, A. "Modeling and Mapping Hiker's Exposure to Transportation Noise in Rocky Mountain National Park," *Park Science* Vol. 26 No 3, Winter 2009-2010.

Collier, R., and Kaliski, K. "Design of a Quiet Space with an Acoustic Canopy within a Large Reverberant Room," *Proceedings of the 2008 Institute of Noise Control Engineers NOISECON 2008*.

Kaliski, K., Hathaway, K., and Adler, T. "Assessing the prevalence of mining noise in a community using dichotomous correlation," *Proceedings of the 2008 Institute of Noise Control Engineers NOISECON*.

Hathaway, K, and Kaliski, K. "Assessing Wind Turbines using Relative Noise Standards," *Proceedings of the 2006 Institute of Noise Control Engineers INTERNOISE 2006*.

Kaliski, K. H., Mills-Tetty, A., Seitaridou, E., Collier, R. "Low-Complexity Continuous Noise Monitoring System for Communities, Small Airports, and Remote Areas," *Proceedings of the 2001 Institute of Noise Control Engineers NOISECON 2001*.

### LICENSES, CERTIFICATIONS, MEMBERSHIPS, AND AFFILIATIONS

- Qualified Environmental Professional, Institute of Professional Environmental Practice
- Licensed Professional Engineer (PE), States of Vermont, New Hampshire, Massachusetts, and Michigan
- Board Certified, Institute of Noise Control Engineering (member, Board Certification Committee)
- Acoustical Society of America (member, Technical Committee on Noise)
- Tau Beta Pi Engineering Society