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the science of insight

KENNETH KALISKI, PE, INCE BD. CERT.
Senior Director

Ken Kaliski has 33 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

33 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. 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. 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 Vermont Public Service Board.

St. Albans eGas – Conducted a noise impact study on a proposed biogas facility that converted farm waste into natural gas, and then combusted the gas in an engine-generator to produce electricity. The project involved ambient sound monitoring at several locations around the facility and sound propagation modeling of the facility. Sources included mechanical equipment on the site as well as generator air intakes, radiator fans, pumps, and generator exhaust.

Massachusetts Research Study on Wind Turbine Acoustics – Leading a study on wind turbine sound to help the State of Massachusetts Clean Energy Center and Department of Environmental Protection improve the regulation of wind turbines in the State. The study includes detailed data collection around five wind projects in New England, support to the Wind Turbine Technical Advisor Committee of the MassDEP, and quantitative analysis of factors such as infrasound, amplitude modulation, sound levels, and sound propagation modeling

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.

Vermont State Colleges Biogas – Evaluated the noise impacts for an experimental facility to convert organic matter to natural gas for energy. The study was conducted on the campus of the Vermont Technical College in Randolph, Vermont. The noise from the 370 kW generator, pumps, compressors, and processing equipment was modeled using the ISO 9613-2 methodology and found to be in compliance with Vermont Public Utility Commission precedent standards.

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.

SELECTED PUBLICATIONS

Haac, T. R., Kaliski, K., Landis, M., Hoen, B., Firestone, J., Elliott, D., Hubner, G., Pohl, J., "Wind turbine audibility and noise annoyance in a national U.S. survey: Individual perception and influencing factors," J Acoustical Society of America, **146**, 1124 (2019)

Kaliski, K., Bastasch, M., O'Neal, R., "Regulating and predicting wind turbine sound in the U.S.," *Proceedings of Institute of Noise Control Engineering InterNoise2018*, Chicago, IL, 2018

Duncan, E., Kaliski, K., Old, I., and Lozupone, D., "Methods for Assessing Background Sound Levels during Post-Construction Compliance Monitoring within a Community," Proceedings of the 6th International Meeting on Wind Turbine Noise 2015.

Kaliski, K, and Duncan, D. "The Challenges of Modeling Percentile Sound Levels from Mining and Other Environmental Noise," National Council of Acoustical Consultants Newsletter, Fall 2015

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 Engineering NOISECON.*

Kaliski, K., Duncan, E., and Cowan, J. "Community and Regional Noise Mapping in the United States," *Sound & Vibration Magazine*, Vol. 41 No. 9, September 2007.

Kaliski, K. H., Mills-Tettey, 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 Engineering 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, Illinois, and Michigan
- Board Certified, Institute of Noise Control Engineering (member, Certification Board)
- Acoustical Society of America (member, Technical Committee on Noise)