



Laurie Morrill
LEAD SCIENTIST, ACOUSTICS

EDUCATION

Master of Environmental Studies, University of Melbourne

B.A., Physics, Reed College

PROFESSIONAL AFFILIATIONS

Institute of Noise Control Engineering (INCE)

Acoustical Society of America (ASA)

PROFESSIONAL SUMMARY

Laurie Morrill is a Lead Scientist in the Acoustics Group at Epsilon Associates with a background in physics and environmental science. Ms. Morrill specializes in acoustical analysis for large scale projects, including solar and wind farms, battery energy storage systems, biogas facilities, natural gas compressor and meter stations, warehouses, and solid waste facilities. Ms. Morrill has demonstrated expertise in evaluating potential community impacts, ensuring compliance with local, state, and federal noise regulations, and supporting permitting processes. She is proficient in developing and executing comprehensive sound level measurement programs, constructing complex predictive sound models, and designing mitigation measures to meet regulatory standards and projects sound level targets. Laurie has experience working on a diverse range of project types across multiple states, providing thorough and accurate assessments to support environmental and regulatory requirements.

PROFESSIONAL EXPERIENCE

RENEWABLE ENERGY AND BATTERY STORAGE

Birdseye Energy Center, Adams County, CO Performed sound model analyses for a 200 MW battery storage facility in Adams County, CO. Designed mitigation measures to meet city and county sound level regulatory limits. Attended several informational community meetings to discuss the project with neighbors.

Coyote Willow Energy Park, Chaves County, NM Performed sound model analyses for a solar and battery storage project in Chaves County, NM to evaluate impacts on nearby receptors. Attended a community meeting to discuss the project with neighbors.

Purple Martin Energy Center, Middlesex County, VA Performed sound model analyses and pre-construction measurements for a 300 MW battery storage facility in Middlesex County, VA to evaluate impacts on nearby receptors.

Mill Stone Energy Center, Chesapeake County, VA Performed sound model analyses and pre-construction measurements for a 150 MW battery storage facility in Chesapeake County, VA. Designed sound mitigation to demonstrate compliance with the local sound level limits.

Poplar Energy Center, Suffolk County, NY Performed sound model analyses for a 60 MW battery storage facility in Suffolk County, NY. Evaluated model results against local sound level limits.

Two Forks BESS Project, Cooke County, TX Performed sound model analyses and pre-construction measurements for a 300 MW battery storage facility in Cooke County, TX to evaluate impacts on nearby receptors.

Cloverleaf BESS Project, Brookings County, SD Performed sound modeling analyses for a 175 MW battery storage project in Brookings County, SD to evaluate impacts on nearby receptors.

Forest Avenue BESS Project, Richmond County, NY Performed sound modeling analyses for a 10 MW battery storage project in Richmond County, NY. Evaluated model results against local criteria and designed mitigation measures to meet regulatory limits.

New London BESS Project, New London County, CT Performed sound modeling analyses for a 5 MW battery storage project in New London County, CT. Evaluated model results against state and local regulatory limits.

Swiftsure BESS Project, Richmond County, NY Performed sound modeling analyses for a 250 MW battery storage project in Richmond County, NY. Evaluated model results against local sound level criteria.

Tsuga Solar, Saginaw County, MI Performed a sound modeling analysis of a proposed solar project in Saginaw County, MI to evaluate potential impacts from the project on the surrounding community. Attended a township planning board public hearing to answer questions regarding project sound level impacts.

Shepherd's Run Solar, Columbia County, NY Performed a sound modeling analysis of a proposed solar project in Columbia County, NY to evaluate potential impacts from the project on the surrounding community in support of the 94-c permitting process.

Jackson Fuller Energy Storage Project, El Paso County, CO Performed sound model analyses and pre-construction measurements for a 100 MW stand-alone battery storage facility in El Paso County, CO. Developed sound mitigation measures to enable the Project to meet local sound level ordinances.

Rogue's Wind, Cambria County, PA Performed a sound model analysis of a proposed wind farm near Patton, PA to evaluate potential impacts from the project on the surrounding community.

Oak Run Solar, Madison County, OH Performed a sound model analysis of a proposed 800 MW solar facility in Madison County Ohio to evaluate the project impacts and ensure that they meet the requirements in the Ohio Administrative Code identified in the Ohio Power Siting Board's Certificate Applications for Electric Power Generation Facilities.

Cereal City Solar, Calhoun County, MI Performed a sound model analysis for a proposed solar facility near Battle Creek in Calhoun County, MI to evaluate potential impacts from the project on the surrounding community.

Circleville Solar, Pickaway County, OH Performed a sound model analysis for a proposed 70 MW solar facility in Pickaway County, OH to evaluate potential impacts from the project on the surrounding community.

Beecher Solar, Lenawee County, MI Performed a sound modeling analysis of a proposed solar project in Lenawee County, MI to evaluate potential impacts from the project on the surrounding community and demonstrate compliance with the local noise regulations.

Battery Energy Storage Systems, Multiple locations. Performed sound model analyses for multiple small- to medium- scale battery energy storage systems in several states to evaluate compliance with local and/or state noise regulations.

Biogas Facility, Junction City, OR Developed and executed a sound level measurement program for a proposed biogas facility. Constructed a model to predict sound level impacts due to the facility at nearby residences and evaluated against local sound level limits.

NATURAL GAS INFRASTRUCTURE

Cape Cod Canal Bridge Relocation Project, Barnstable County, MA Planned and oversaw the pre-construction sound level evaluations for four new natural gas M&R stations and two HDD crossings in Barnstable County, MA to support the Federal Energy Regulatory Commission (FERC) environmental review process for natural gas projects. The Project was also evaluated under the MassDEP Noise Policy and against local regulations. Reported methods and results the support submission of Resource Report 9.

Algonquin Gas Transmission Pipeline Replacement Project, Newport County, RI Planned and oversaw the pre-construction sound level evaluations for two HDD crossings in Newport County, RI to support the FERC environmental review process for natural gas projects. Performed a complaint investigation during construction to recommend additional mitigation measures.

Narragansett Electric Company Mobile LNG Facility, Portsmouth, RI Developed and executed a sound level measurement program and sound level modeling to evaluate community impacts due to an LNG vaporizer on Aquidneck Island, RI. Evaluated the expected impacts against local noise limits. Conducted post-construction measurements to demonstrate compliance.

Rover Pipeline Project, Multiple Locations, OH and WV Developed and conducted both pre-construction and post-construction sound level measurement programs at several natural gas compressor stations to ensure compliance with the FERC noise criterion. Constructed noise models and designed noise mitigation measures.

Mountain Valley Pipeline Project, Multiple Locations, WV Developed and conducted pre-construction sound level measurement programs at three natural gas compressor stations to evaluate compliance with the FERC

noise criterion. Constructed noise models and designed noise mitigation measures. Assisted with composition of Resource Report 9.

Gulf Coast Southbound Project, Multiple Locations, TX Developed and conducted both pre-construction and post-construction sound level measurement programs at three natural gas compressor stations to ensure compliance with the FERC noise criterion. Constructed noise models and designed noise mitigation measures and assisted in development of Resource Report 9.

Gulf Coast Expansion Project, Cass County TX Developed and conducted pre-construction sound level measurement program for a new compressor station to evaluate compliance with FERC noise criterion. Constructed a sound level model and assisted in development of Resource Report 9.

Compressor Station 261, Agawam, MA Developed and executed multiple sound level measurement programs for an existing natural gas compressor station in Agawam, MA. Constructed and calibrated a sound model of the existing and proposed modified station equipment to demonstrate compliance with the FERC noise criterion and the MassDEP Noise Policy.

Longmeadow Meter Station, Longmeadow, MA Developed and executed a sound level measurement program for a proposed meter station and associated horizontal directional drilling. Constructed a sound level model to predict impacts from both facility operations and construction to demonstrate compliance with the FERC noise criterion and the MassDEP Noise Policy.

Rye Meter Station, Rye, NY Developed and oversaw a sound level measurement program for an existing meter station in Rye, NY. Constructed and calibrated a sound model of the existing equipment and designed mitigation measures.

WAREHOUSES

Hudson Logistics Center, Hudson, NH Performed a detailed sound level assessment for a 1.4 million square-foot warehouse project. The assessment included conducting ambient measurements and detailed sound level modeling to evaluate potential project impacts against the ten distinct noise limits described in the Hudson Town Code.

Target Distribution Center, Windsor, CT Performed pre-construction and post-construction sound level studies for a 525,000 square-foot distribution center to demonstrate compliance with state and local regulatory sound level limits. Conducted ambient sound level measurements, sound modeling, and post-construction compliance measurements.

Distribution Center, Enfield, CT Performed sound modeling and mitigation design for a distribution center to demonstrate compliance with state and local regulatory sound level limits.

Dollar Tree Distribution Center, Windsor, CT Evaluated sound level impacts due to the proposed addition of a chiller to an existing distribution center to demonstrate compliance with state and local regulatory sound level limits.

SOLID WASTE FACILITIES

South Coast Renewables, LLC, New Bedford, MA Performed a sound level assessment including sound monitoring and acoustic modeling for a proposed new solid waste transfer station in New Bedford, MA to assess potential impacts at a nearby residential neighborhood as part of a site assignment process. Worked closely with the MassDEP and third-party reviewer to determine optimal sound mitigation to minimize impacts on the nearby neighborhood.

ReSource C&D Recycling Facility, Ware, MA Performed a sound level assessment including sound monitoring and acoustic modeling for the expansion of an existing solid waste transfer station in Ware, MA. Evaluated sound levels against state and local regulations to support the local permitting process.