

Professional Qualifications

Jeffrey M. Cerjan



Education:

B.S. Aerospace Engineering
University of Kansas, 1994

Professional Affiliations:

Institute of Noise Control Engineering
Acoustical Society of America

Agency Experience:

Federal Highway Administration
Federal Aviation Administration
U.S. Dept. of Transportation
Colorado Dept. of Transportation
Utah Dept. of Transportation
Nebraska Dept. of Roads

Background:

Mr. Cerjan has been practicing in the field of noise and vibration engineering for more than 25 years. He has gained this experience in a variety of industries including aircraft, industrial, oil and gas, transportation, and architectural. Prior to Hankard Environmental Mr. Cerjan was employed by Raytheon Aircraft in design, systems, structural dynamics, and acoustics. At Raytheon he gained extensive experience in aircraft interior noise and vibration measurements, analysis and design, as well as take-off noise testing, analysis, and certification. Mr. Cerjan was next employed by The NORDAM Group where he established an acoustical engineering position for this principal supplier of integrated aircraft interiors.

At Hankard Environmental Mr. Cerjan has completed or supported over 500 projects. He has also provided support to clients at governmental hearings, conducted audio demonstrations, and has provided expert witness testimony in civil lawsuits.

Experience

Aircraft Noise and Vibration

Includes extensive noise and vibration testing and analysis on a wide range of turbojet, turbofan and piston aircraft from several manufacturers. Other activities included flight test planning, takeoff noise certification testing and/or analysis, ground vibration testing, and statistical energy analysis.

Transportation Noise Analysis and Mitigation Design

Includes acoustical analysis using TNM noise modeling software to predict noise levels near highways or roadways as well as the use of the model to design and predict the impact of noise mitigation. Technical noise reports were prepared in support of the EA or EIS as well as presentations to engineering personnel and the public. Co-authored the TNM User's Guide for the State of Colorado including in-depth testing of the TNM model. Mr. Cerjan has also researched and analyzed quiet pavements and texturing methods.

Industrial

Measured, modeled, and analyzed various industrial sources and facilities including power plants (coal, oil, gas, biomass, cogeneration, peaking, etc.) and gravel pits. Familiarity with a variety of noise regulations, both nationally and internationally, including experience with World Bank Group and the associated International Finance Corporation Noise Guidelines. Experience working directly with lender representatives and the public to explain client positions and compliance with applicable regulations.

Expert Witness Testimony

Testimony on acoustics (in court or through depositions) with regard to sound propagation, mitigation, measurement, and data interpretation has been provided for various civil lawsuits. Preparation for these cases included conducting measurements and analysis for clients. The results of these findings were used to support their cases.

Oil and Gas

Completed noise permitting for oil and gas facilities across the country including compressor stations, meter stations, and pipelines. This included ambient and source noise measurements, acoustical modeling using SoundPLAN, and a variety of noise mitigation elements. Experience with several state Oil and Gas specific regulations across the U.S.

Mining

Measured, modeled (using SoundPLAN), analyzed and mitigated noise from coal, gravel, gold, and other mines in the U.S. and internationally. These included both expansion of existing mines and development of new mines. Extensive measurements taken of various mining-related equipment, operations, and processes. Final documentation has included technical reports and environmental section write-ups, with additional support including public hearings and testimony. Experience working with Montana Department of Environmental Quality, Minnesota Pollution Control Agency, World Bank, Ghana EPA, U.S. EPA, and more.

Land Development

Worked with developers regarding land development issues relating to local noise guidelines, rezoning applications, etc. Familiarity with various noise ordinances throughout the country. Have provided support for clients in dealings with city and county commissioners, planners, trustees, and legal counsel.