

PROJECT PROFILE: OSHA NOISE ANALYSIS



PROJECT: GIBSON GUITAR PLANT
Bozeman, Montana

CLIENT: Gibson Guitar

The State of Montana Safety and Health Bureau determined that employees of the Gibson Guitar Plant were **exposed to noise levels that exceeded the Occupational Health and Safety Administration (OSHA) limits** for noise exposure. Big Sky Acoustics was hired to evaluate the industrial operations and determine how the equipment and building could be modified to reduce the overall noise levels in the plant.



BSA's SERVICES and SOLUTIONS:

- Met on-site with the plant manager and safety engineer to observe and evaluate the working operations and equipment in the woodworking area of the plant.
- Measured the noise levels of individual pieces of equipment and the plant operations.
- Analyzed and predicted how **various acoustical treatments, equipment modifications and engineering controls** could be used to **reduce the noise levels** for individual receptors, and for the entire woodworking area of the plant.
- Predicted the **Time Weighted Average (TWA) reduction** at each receptor location if the recommended noise control measures were installed. **Recommended ceiling treatment, dust collector, equipment, air nozzle modifications, and barrier controls**, so that worker exposure would be reduced to below the OSHA limits.
- Summarized the study in a clear and concise report, so the plant could implement the various modifications to reduce the employee noise exposure.

