

Big Sky Acoustics, LLC

PROJECT PROFILE: **MANUFACTURING FACILITY**



PROJECT: PREMIER TECHNOLOGY
Blackfoot, Idaho

CLIENT: Myers Anderson

Premier Technology expanded and needed a new manufacturing facility for the fabrication of metal products. Big Sky Acoustics was hired to measure existing noise levels in the current facility, analyze the new plant design, evaluate engineering controls, and provide noise control recommendations to reduce worker noise exposure.

BSA's SERVICES and SOLUTIONS:



- Premier Technology uses a variety of metalworking tools, including grinders, welders, hammers and saws. An open prefabricated building was proposed for the new facility, with three large shop bays, which is necessary to manufacture large items.
- Measured overall noise levels in the existing shop, as well as noise levels of individual equipment.
- For the room acoustics analysis, determined the type and quantity of sound-absorbing material that would be required on the ceiling and walls of the facility. Provided two ceiling and three wall material options and determined effectiveness and cost of each option.
- For the sound isolation analysis, BSA evaluated various constructions to be used between the new shop bays and adjacent spaces, including the training room and private offices. Provided wall construction, door assembly, and window configuration options.
- Summarized the study in a clear and concise report, so that Premier Technology could choose material options and determine building costs in the design phase of the project.

