



Industrial Acoustic Enclosure Implementation at KBR, Inc. Using All Noise Control's Metal Wall Panels

WEB:

www.allnoisecontrol.com

PHONE:

(407) 559-7081

OVERVIEW

KBR, Inc., a global engineering and industrial solutions provider, operates large-scale industrial facilities housing high-capacity compressors and mechanical processing systems. Within one of their production environments, continuous equipment operation generated elevated airborne noise levels that impacted surrounding work areas and operational efficiency.

To mitigate machinery noise at the source and enhance workplace acoustic conditions, KBR partnered with All Noise Control to design and install a high-performance Silencor® Metal Wall Panels system engineered for industrial durability and measurable sound transmission loss.

CHALLENGES

The facility's open industrial layout, reinforced concrete flooring, and exposed steel ceiling structures amplified reflected sound energy from high-output rotating equipment. Noise from enclosed machinery transmitted into adjacent operational zones, affecting communication and worker comfort.

SOLUTION:

All Noise Control engineered a custom acoustic enclosure using Silencor® Metal Wall Panels to fully contain the high-noise equipment system.

The system was constructed with reinforced galvanized steel composite panels featuring high-density acoustic insulation cores designed for maximum sound transmission control. Panels were securely anchored to the concrete slab and acoustically sealed at all joints to prevent sound leakage.

Silencor® Metal Wall Panels are designed to deliver effective sound absorption, superior sound transmission loss, and long-term durability in demanding industrial noise control and outdoor environments. The modular bolt-together design allowed efficient installation within the existing facility footprint.

RESULTS:

- Significant reduction in airborne machinery noise beyond enclosure boundaries
- Improved speech clarity and communication within adjacent work zones
- Reduced acoustic fatigue for facility personnel
- Enhanced compliance alignment with OSHA workplace noise standards
- Durable, corrosion-resistant metal panel enclosure designed for long-term industrial performance
- Seamless integration into KBR's manufacturing infrastructure without operational disruption