

SELECTED PROJECT PORTFOLIO

Project: Hydroelectric Power Plant Noise Reduction
Operator: U.S. Department of Interior; Bureau of Reclamation
Notes: Reduce Noise Levels to Lower Potential Incidence of Noise Induced Hearing Loss (NIHL) in Plant Workers

Services Provided:

- Conducted comprehensive acoustic and vibration surveys in a series of power plants including the use of acoustic array technology to verify the location of the noise sources and the transmission paths of acoustic energy into the main plant areas.
- Designed noise control strategies and developed an implementation plan to reduce noise levels below the 85 dB(A) targets.
- Oversaw the installation of the engineering controls and after installation complete, repeated measurements to verify effectiveness.

Results:

- Installed noise control treatments were found to be very effective; noise levels in the plants were reduced by as much as 15 dB.
- The target level of 85 dB(A) in the main plant areas was met in all facilities.