

Preparing a Noise Impact Assessment (NIA)

Description:

The objectives of this ½ day course are to take the acoustic characteristics of typical sources used in the energy industry, evaluate how the sound emissions are affected by environmental factors and noise control elements, and assess the noise impact at nearby receivers, according to the EUB Interim Directive.

The predicted noise levels are compared to the requirements of the Alberta Energy and Utilities Board (EUB) Interim Noise Control Directive ID 99-8, or its successor document (both the directive and the proposed draft of the successor regulations will be reviewed if the revised version is not adopted by the time of this workshop), or other relevant regulation. The relative contributions of each source are reviewed, to direct cost-effective control measures if additional steps are needed.

Special consideration will be given to the concern for Low-Frequency Noise (LFN).

Topics include:

- Source characteristics, in terms of spectral levels in sound power levels and/or sound pressure levels
- Environmental factors in noise propagation
- Noise control elements
- Predicting receiver noise levels
- Rank-ordering sources
- Assessing the impact per the EUB (or other) regulations
- Focussing noise control measures
- Theoretical case study
- Question and Answer session

Recommended Prerequisite: Basic Acoustics Level 1 or Equivalent Experience

Instructor: Richard Patching, P.Eng.

Mr Patching is the President of Patching Associates Acoustical Engineering Ltd., and has more than 20 years in the field of acoustical engineering. He has served on boards revising the EUB Interim Noise Directive, and has presented several papers on environmental noise and industrial noise sources.