



SEMINAR

Why some Power-Generation noise projects fail to meet expectations: An engineering review of applied acoustics & aerodynamics.

Focusing on electrical power generation (EPG), a brief overview of noise control fundamentals is presented to bring the group's conversational acoustics to a mutual level. Using our acoustic lexicon, we will explore the various sources of noise emanation from an engine-generator (EnGen). Legal criteria will be discussed with emphasis on interpretation of conflicting codes and determination of "Right of Supremacy" as well as anticipating community response to noise. Requisite acoustic standards to meet international financing criteria (World Bank/IFC /MIGA, Ex-Im Bank /CGFs/WCGP, . . etc.) will be reviewed. Highlights of the new ISO noise control standard will be presented with opposing ASTM and Trade Convention requirements. A cursory look at the intrinsic relationship between acoustics, aerodynamics and noise suppression systems will be offered. Following will be a presentation of the designer's options to deter noise propagation in the planning phase including in situ acoustical remediation of existing problems. Acoustic & aerodynamic testing, computer analysis and diagnostic techniques are demonstrated through an actual EnGen proposed project and an in-situ EnGen site remediation, both via computer modeling of each installation. General guidelines to avert acoustic conflicts will be offered. A question and answer session will follow as time permits.

Continuing Education Credits: Continuing Education Units (CEU) and Professional Development Hours (PDH) are offered to all participating attendees registering for same. CEU (0.1) and PDH (1.0) credits are awarded per class attendance hour. Lecture content may be contracted to fit a Lunch-and-Learn time frame. See sponsor's course outline for total hours offered.

May 2014

file: Seminar AEC EnGen-Fail CEU.doc

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