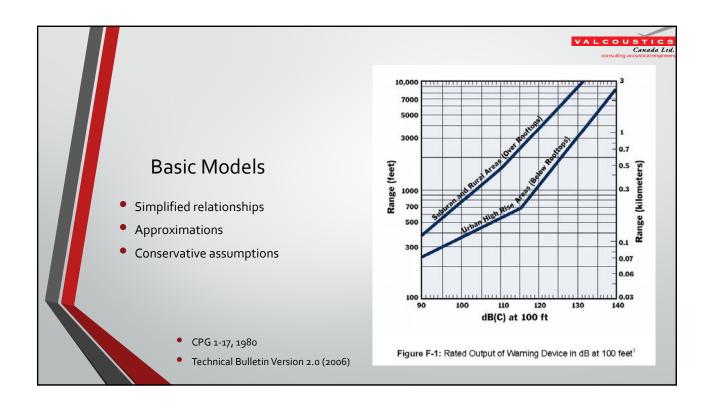


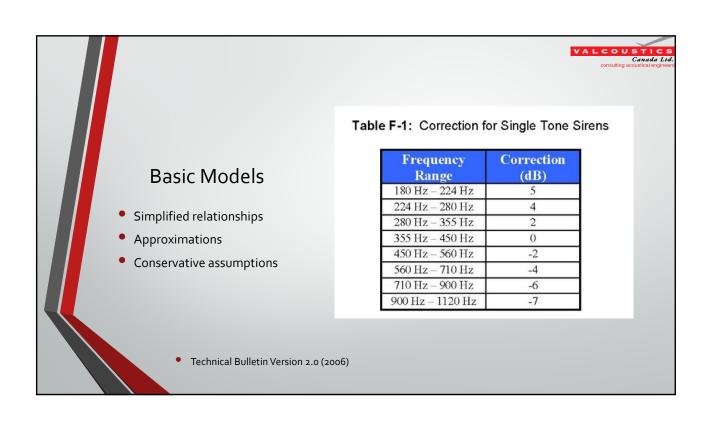


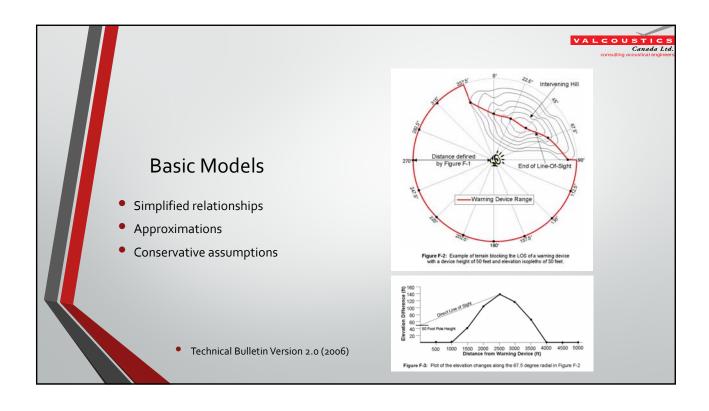
Guidelines

- Ontario Provincial Nuclear Emergency Response Plan (PNERP)
- Outdoor Warning Systems Guide (CPG 1-17, 1980)
- Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants (NUREG-0654/FEMA REP-1, 1980)
- Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants (FEMA-Rep-10, 1985)
- Outdoor Warning Systems Technical Bulletin Version 2.0 (2006)
 - Siren sound level greater than 70 dBC; and
 - Siren sound level at least 10 dBC above the ambient

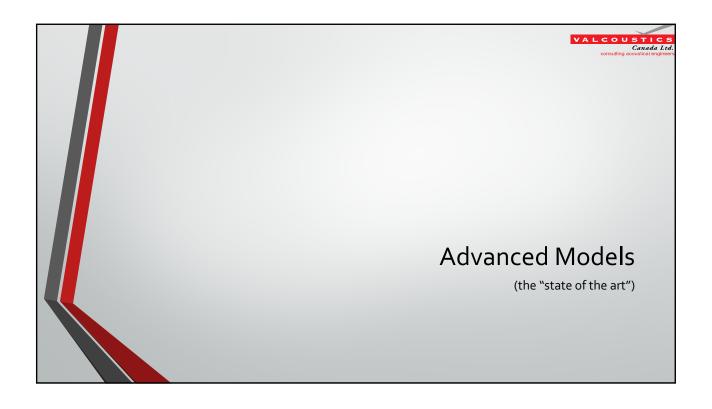


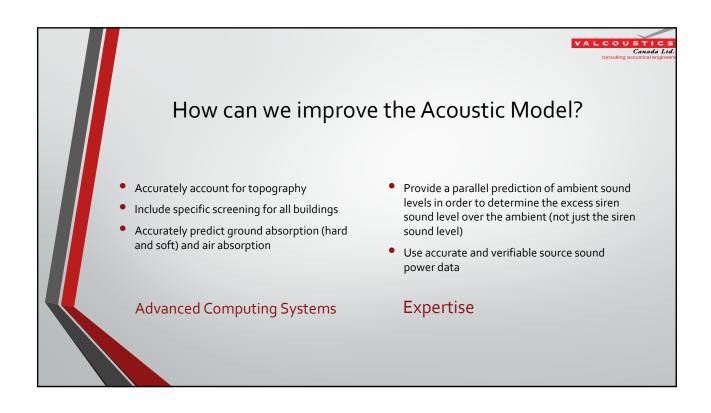


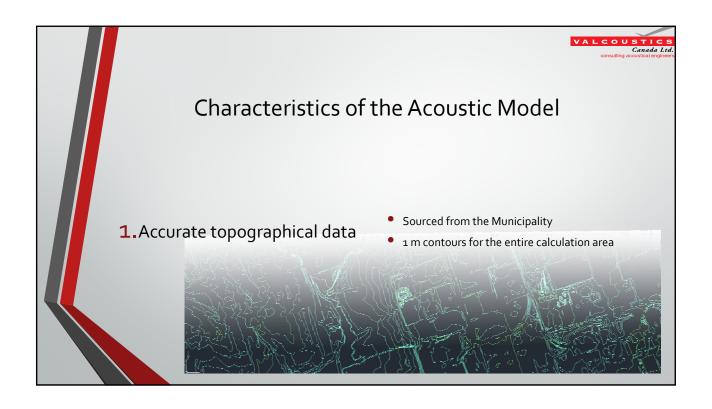


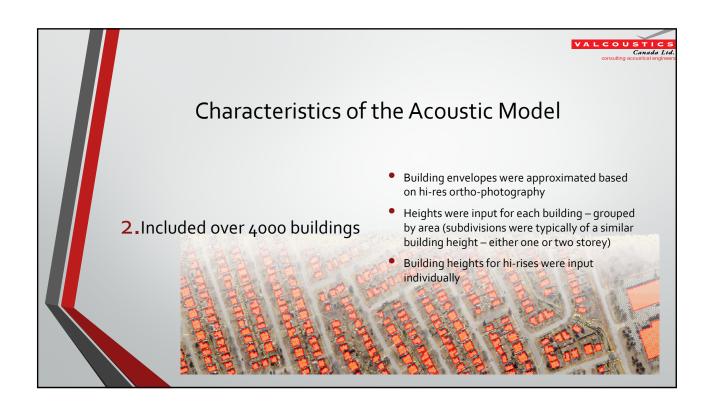


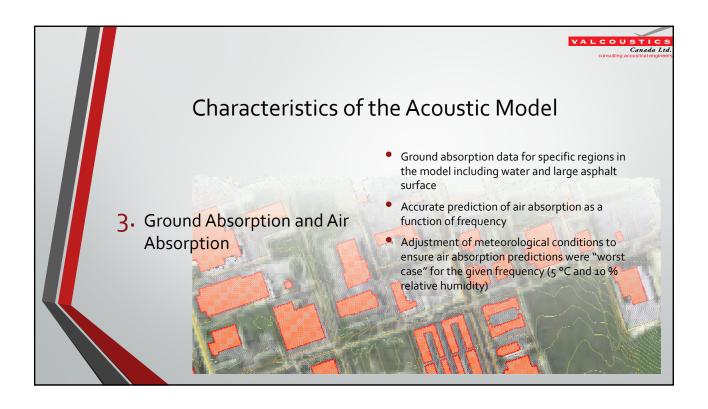
So what are some shortcomings of the "Basic Models"? • Some models provide no accommodation for topography. Other models address it in only a rudimentary way • Basic models provide only a simple prediction of screening from buildings • Simpler models don't account for variation in atmospheric absorption as a function of frequency • Most models assume ambient sound level is a function of population density only

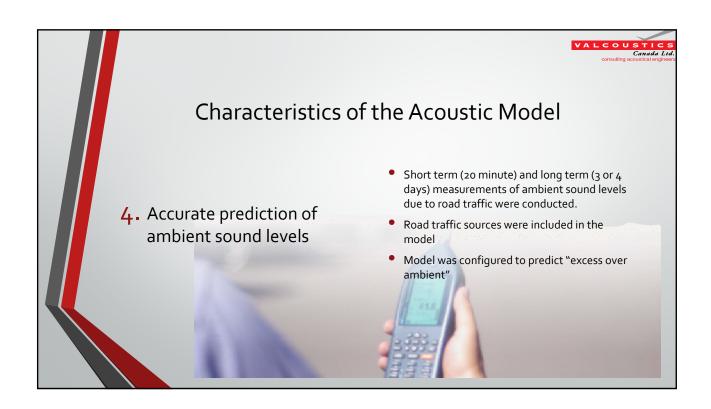


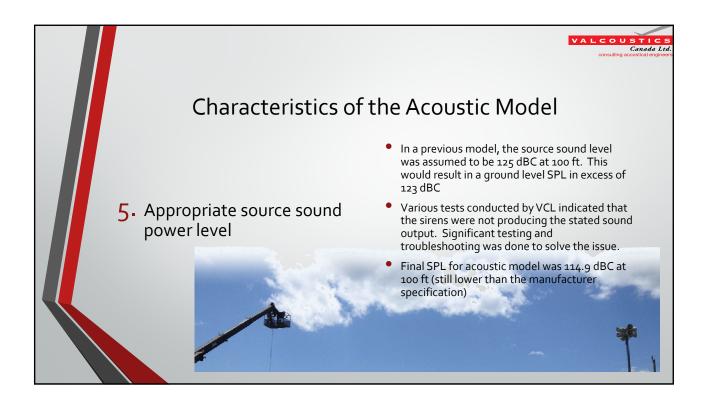


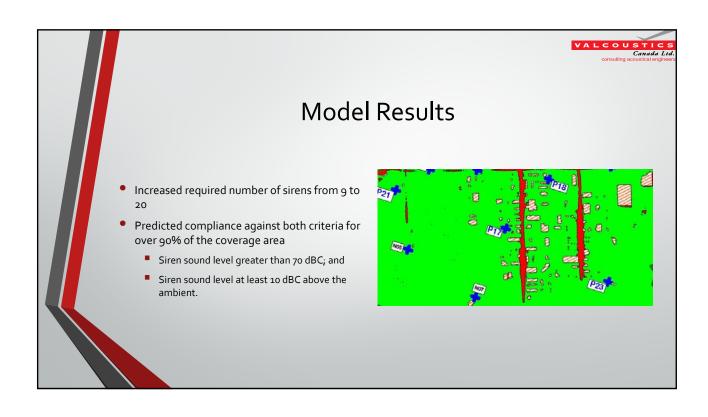












Final Verification Testing • Excellent agreement with the model data • Sound level criteria met at ALL measurement locations

