

Investigation of Meteorological Tower Siting Criteria

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ABSTRACT

Guidance is provided in NRC Safety Guide 23 and ANSI/ANS Standards 2.5-1984 and 3.11-2000 regarding siting criteria for meteorological towers at nuclear power plants. This guidance typically requires that towers be situated in an open field maintained in a state of natural vegetation cover. While such siting criteria are intended to minimize influences from localized conditions that could affect temperature and wind measurements, they may not be representative of conditions that occur on-site at a nuclear power plant. This presentation will discuss a comparison of two towers at one power plant, observed differences between the 10-meter measurements made at the two towers, and the potential impact of these differences in modeling the dose impact from ground-level airborne releases from the site.