

EDMS *Reference Manual* Supplement
-Model Changes between EDMS 4.05 and EDMS 4.06-
December 13, 2002

AERMOD Input File Generation

| Change | Effect |
|--|---|
| <p data-bbox="230 527 456 558"><u>Receptor Elevations</u></p> <p data-bbox="230 558 797 919">In all previous versions, the “ELEVUNIT FEET” record is not written to the receptor section of the input (.inp) file. Without this, AERMOD reads all receptor elevations as meters instead of feet, therefore causing AERMOD to <u>underpredict</u> concentrations. For example, if a receptor’s elevation is 100 feet, then AERMOD reads this as 100 meters (about 328 feet) and receptor is modeled as being 228 above the ground plus any flagpole height. The effect is clearly multiplied for airports at higher elevations. This behavior has been prevented in version 4.11.</p> | <p data-bbox="824 558 1328 615">AERMOD will process receptors at the correct elevation.</p> |