

Version: EDMS 3.0 for Windows 3.1
Patch No.: 30-97-02
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Description:

In refined dispersion analysis, Annual Arithmetic Mean (AAM) concentrations for NO_x, SO_x, and PM-10 are calculated by dividing the sum of an entire year's concentrations at a particular receptor by the total number of weather hours. In EDMS 3.0 an error occurs when this sum incorrectly is divided by a number that is one (1) higher than the actual number of weather hours.

Effects:

The higher number in the denominator results in AAM concentrations that are slightly lower than they should be, with the change usually occurring around the decimal place representing 1/10000th of a micro-gram.

Workaround:

The Dispersion Report lists the actual number of weather hours for which concentrations were estimated. For dispersion runs made with EDMS 3.0, the correct (or actual) AAM concentrations can be calculated by multiplying the displayed AAM concentrations with the number of total weather hours in the Dispersion report plus one, and dividing again by the number of total weather hours:

$$\text{actual} = \text{displayed} * (\text{no. of hours} + 1) / (\text{no. of hours})$$

Correction:

Upgrading to EDMS 3.01 and re-running dispersion corrects this error. For further assistance with this problem please contact EDMS Tech Support at (202)488-0003 or e-mail, edms_help@cssiinc.com.