

# EDMS *Reference Manual* Supplement

## -Model Changes between EDMS 4.3 and EDMS 4.4

November 21, 2005

### Import Utility

<b>Change</b>	<b>Effect</b>
<u>Import</u> In EDMS 4.3, there was an import error that mistook studies created in EDMS4.3 for studies created in EDMS 4.2, which prevented importing altogether. That error has been corrected.	EDMS 4.3 studies can now be imported without issue.
<u>GSE-Assignment</u> EDMS 4.2 had an error pertaining to the importing of GSE Assignments for GSE's whose Reference Model name contained commas. The error carried over to EDMS 4.3 but was concealed by a separate Import error.	The Import error has been corrected and users can now import GSE Assignments correctly.

### PM FOA Qualifier

<b>Change</b>	<b>Effect</b>
The window title for the PM FOA Qualifier has been changed from "PM FOA Disclaimer" to "PM FOA Qualifier".	The window title now matches the text.

### Parking Facilities

<b>Change</b>	<b>Effect</b>
<u>Parking Facility Release Height</u> Previous versions of EDMS did not have data validation for the parking lot top release height, which allowed users to enter a top release height value that was lower than the top of the parking facility. This resulted in a negative level height value being passed to AERMOD, which was invalid. EDMS 4.4 recalculates the release height when the user changes the level spacing or the number of levels in the parking facility. A minimum release height has also been enforced.	Parking facility release heights are now valid whenever a change to the spacing and levels have been made, which eliminates the potential AERMOD negative value error.

## Stationary Sources

<b>Change</b>	<b>Effect</b>
<u>Stationary Sources Shell Height</u> In the Previous version of EDMS, the entire list of vertical fixed roof Fuel Tanks in the Stationary source dialog listed “Shell Length” as a parameter. The parameter has been changed to read “Shell Height”.	The proper parameter name is now shown giving the user increased clarity.
<u>Erroneous Data Validation</u> Previous versions of EDMS produced a data validation error on two fields that were not represented on the screen, causing the messages “please enter a number between 0.1 and 100” and “please enter a number between 0.03 and 164.04” to appear. The error has been corrected.	Data validation is now correct and consistent with what is represented on the Stationary Source screen.

## AERMOD

<b>Change</b>	<b>Effect</b>
<u>AERMOD Warning</u> Previous versions of EDMS did not display a non-fatal warning from AERMOD when the number of missing weather hours exceeds 10%.	EDMS displays the AERMOD warning and prompts the user to check the surface and upper air weather files for correctness before rerunning AERMOD.
<u>New AERMOD</u> The previous version of AERMOD (version 02222) has been updated to AERMOD version 04300.	EDMS now includes AERMOD version 04300. This new release includes updates to area source calculations and enhanced meteorological data processing in addition to many other bug fixes and model improvements. Additional information about AERMOD is available from the EPA at <a href="http://www.epa.gov/scram001/7thmodconf.htm#aermod">http://www.epa.gov/scram001/7thmodconf.htm#aermod</a>

## AERMET

<b>Change</b>	<b>Effect</b>
<u>New AERMET</u> The previous version of AERMET (version 02222) has been updated to AERMET version 04300.	EDMS now includes AERMET version 04300 which improves the meteorological data processing over version 02222 resulting in fewer missing hours of weather data.