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Fact Sheet for Applying CalEEMod to Localized Significance Thresholds

This fact sheet describes how construction mitigation measures from the new CalEEMod Land Use Model may be applied to the SCAQMD Localized Significance Threshold (LST) Methodology. The LST Methodology uses lookup tables based on site acreage to determine the significance of emissions for CEQA purposes. However, CalEEMod does not allow the user to mitigate construction emissions by directly modifying acreage disturbed.

CalEEMod calculates construction emissions (off-road exhaust and fugitive dust) based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the LST lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions
2) The maximum number of acres disturbed on the peak day using the equipment list from above and the following table from the CalEEMod appendix

Equipment Type	Acres/8hr-day
Crawler Tractors	0.5
Graders	0.5
Rubber Tired Dozers	0.5
Scrapers	1

3) Any emission control devices added onto off-road equipment
4) Specific dust suppression techniques used on the day of construction activity with maximum emissions

Example 1

A 15-acre development proposes to use one grader, one scraper, and one tractor for eight hours each during Site Preparation activities (the peak day in this case). As the maximum daily disturbed acreage for this equipment is 2 acres (0.5+1+0.5=2), the project proponent should compare CalEEMod reported emissions against the 2-acre LST lookup tables.

Example 2

A 1-acre development proposes to use 2 dozers and 2 tractors for eight hours per day each during Grading activities. The total acreage disturbed is 2 acres per day occurring on a 1-acre site (meaning the site is graded twice in one day). In this case, the CalEEMod reported emissions should be compared against the 1-acre LST lookup tables.