

Methodology Meeting Agenda

Parking Facility Projects

Air Quality Impact Study (AQIS) Methodology

Background:

The purpose of this meeting is to discuss the AQIS methodology to perform computer modeling to estimate maximum carbon monoxide (CO) concentrations from the existing and proposed parking facilities and intersections in the vicinity of the project for the existing year, build-out year, and 10 years after build-out. These (worst case scenario) concentrations are compared with the federal carbon monoxide (CO) national ambient air quality standards (NAAQS) to ensure that the proposed project will not contribute to an exceedance or violation of the AAQS. Appropriate mitigating measures will be identified if modeled results indicate exceedances of the NAAQS. CO is a colorless and odorless gas that, for mobile sources, is generated by internal combustion engines and dispersed along traffic corridors. Vehicular traffic, speed, congestion, topography, and meteorology influence the impacts of CO emissions. The NAAQS were developed by the U.S. Environmental Protection Agency (USEPA) as health-based standards for ambient air to protect public health and the environment. The NAAQS consist of primary (public) and secondary (environmental) standards. In the case of CO, the two standards are identical, and they are expressed as 1-hour and 8-hour limits, 35 and 9 ppm, respectively.

Methodology:

1. Project Description
 - a) Location
 - b) Proposed Parking Spaces
 - c) Current Situation
 - d) Type of Parking Facility
2. Modelling Years
 - a) Current year
 - b) Build-out year
 - c) Ten (10) years after build-out
3. Recommended Modeling Programs
 - a) Emissions- USEPA Mobile 6.2 or Vehicle Emissions Simulator (MOVES program)
 - b) Area Source Emissions Modeling (Applicable models) - PAL2
 - c) Intersection Emissions Models - COFL2012 (Chapter 19 of the Florida Department of Transportation (FDOT) Project Development & Environment (PD&E) Manual) and CAL3QHC
4. Parking Facilities/Intersections to be modeled
5. Guidelines
 - a) Guidelines for Evaluating the Air Quality Impact of Indirect Sources (Florida Department of Environmental Protection (FDEP) DRAFT June 2002
 - b) Broward County Code of Ordinances - Chapter 27, Article IV, Sec. 27-176. Sec.
 - c) 27-176(c)(1)b- Air Quality Impact Study requirements.
 - d) Criteria
 - e) NAAQS - 1 hr.: 35 ppm; 8hr.: 9ppm
 - a. Background concentration: Central Business District = 3ppm; Urban Area= 2ppm

- b. Vehicle Speeds, Idling Times and Air Pollutant Persistence Factor (to account for variations in traffic and meteorological conditions over time) in accordance with FDEP's guidelines.

6. Permitting Process

- a) Submit a complete and signed Parking Facility License application and \$1,200 fee
- b) Agree in a Methodology meeting or teleconference on Air Quality Impact Study (AQIS) requirements
- c) Applicant submits a complete AQIS for review
- d) If AQIS is deemed satisfactory, client is notified of approval
- e) A license is issued if it meets EEPD's approval criteria, including receipt of proof of public notice of Significant Environmental Impact Facilities (click link below for SEIF requirements) (<http://www.broward.org/Environment/Pages/Notice.aspx>)

Revision 06/12/19