**Air & Noise**

**Carbon Monoxide Analysis**

- **Maintenance Project, or LOS A, B, or C, or ADT Volume < 10,000**
  - **No** → **Quantitative**
  - **Yes** → **Qualitative**

- **Signalized Intersection with LOS = D, E, or F, and ADT Volume > 10,000**
  - **Yes →**
    - Use FHWA CO Categorical Hot-Spot Finding Tool
      - Select and Edit Template Language in Report
      - Include a Printout of the Results as Attachment
  - **No →**
    - Use GA CO Screening Tool
      - Select and Edit Template Language in Report
    - Detailed Carbon Monoxide (CO) Hotspot Modeling for the appropriate Signalized Intersection (using CAL3QHC)
      - Select and Edit Language in Report
      - Include Intersection Graphic Showing Receptor Locations in Report
      - Include Input and Output Files in Appendix

- **Volume of each intersection leg < 2640 (DHV) LOS = A, B, C, D, or E only All approaches ≤ 6 lanes**
  - **Yes →**
    - Use FHWA CO Categorical Hot-Spot Finding Tool
      - Select and Edit Template Language in Report
      - Include a Printout of the Results as Attachment
  - **No →**
    - Use GA CO Screening Tool
      - Select and Edit Template Language in Report
    - Detailed Carbon Monoxide (CO) Hotspot Modeling for the appropriate Signalized Intersection (using CAL3QHC)
      - Select and Edit Language in Report
      - Include Intersection Graphic Showing Receptor Locations in Report
      - Include Input and Output Files in Appendix

- **Intersection Geometry Matches Exactly One of the Nine Configurations Available in the Screening Tool**
  - **No →**
    - Use GA CO Screening Tool
      - Select and Edit Template Language in Report
    - Detailed Carbon Monoxide (CO) Hotspot Modeling for the appropriate Signalized Intersection (using CAL3QHC)
      - Select and Edit Language in Report
      - Include Intersection Graphic Showing Receptor Locations in Report
      - Include Input and Output Files in Appendix

- **Detailed Carbon Monoxide (CO) Hotspot Modeling for the appropriate Signalized Intersection (using CAL3QHC)**
  - **Yes →**
    - Use GA CO Screening Tool
      - Select and Edit Template Language in Report
    - Detailed Carbon Monoxide (CO) Hotspot Modeling for the appropriate Signalized Intersection (using CAL3QHC)
      - Select and Edit Language in Report
      - Include Intersection Graphic Showing Receptor Locations in Report
      - Include Input and Output Files in Appendix

**Remember:**
- ADT from Design Year Build Alternative,
- ADT is sum of all approach legs of selected intersection,
- Consider LOS of each leg of selected intersection, not overall LOS

**Report Formats** –
- Full Report
- Addendum Report
- Memo

**What to Submit to OES for Review**
- Upload Documents to the GDOT ftp site: Environmental Services/Air and Noise Documents, in a folder labeled with Project PI No.
- Pdf of the complete report including graphics and all attachments.
- Proof of peer QC document and/or checklist
- GIS files if CAL3QHC modeling conducted
- CO Emission Tables if CAL3QHC modeling conducted

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**Last Updated: 5/5/2020**