



Documentation Standard for a Quantitative MSAT Technical Report

Use this document standard (DS) to prepare a quantitative MSAT technical report, which must include the components outlined below. Each section of this DS represents a required section of the report.

I. Background Information

The quantitative MSAT technical report must include the following components related to background information.

- A. The project location and limits
 - B. A description of the project
 - C. A brief explanation of project types that are subject to a quantitative MSAT analysis
 - D. An identification of why this particular project is subject to a quantitative MSAT analysis
 - E. An identification of the date of the MSAT conference call
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II. Qualitative MSAT Analysis

The quantitative MSAT technical report must include the following language related to the qualitative MSAT analysis.

- A. The most current MSAT Background language
 - B. The most current Project-Specific MSAT Information language
 - C. The most current Incomplete or Unavailable Information for Project-Specific MSAT Health Impacts Analysis language
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III. Analysis Methodology

The quantitative MSAT technical report must include the following components related to the analysis methodology, and must be consistent with the meeting minutes from the MSAT consultation call.

- A. An identification of the methodology for determining the affected network (e.g., +/- 5% change in traffic volumes between build and no-build alternatives)
 - B. An identification of the emission model used in the analysis
 - C. An identification of the emission rates used
 - D. An identification of the source of the emission rates (i.e., emission rate table vs MOVES modeling)
 - E. An identification of the current MTP and Travel Demand Model (TDM) from which the affected links were determined (e.g., 2035 RTP Update-2013 Amendment)
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- F. Maps that show the affected network links
 - G. An identification of the base year, interim year (if applicable), and design year that were analyzed
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IV. Analysis Results

The quantitative MSAT technical report must include the following components related to the analysis results.

- A. A table identifying the total MSAT emissions for each primary MSAT and total VMT for each affected network (i.e., base year, interim year no-build, interim year build, design year no-build, design year build)
 - B. A bar chart showing the emissions for each primary MSAT for each affected network and with the VMT charted on a secondary y-axis.
 - C. A bar chart showing the total MSAT emissions (aggregate of all primary MSAT) for each affected network and with the VMT charted on a secondary y-axis
 - D. A brief analysis of the modeling results
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V. Conclusion

The quantitative MSAT technical report must include the following components related to the analysis conclusion. If the analysis results indicate that total MSAT emissions in the interim or design year are expected to exceed the applicable total MSAT emissions in the base year, consult with the ENV air specialist.

- A. A statement identifying whether the total MSATs are expected to decrease in the future years analyzed regardless of the whether the build vs no-build alternative is implemented



The following table shows the revision history for this document.

Revision History	
Effective Date Month, Year	Reason for and Description of Change
September 2015	Version 1 was released.