

Analysis Procedure Manual

2025 Change Sheets

February 2025

Chapter 14

Chapter 14 corrections

- Corrected example and exhibit numbering errors throughout chapter plus other minor corrections and formatting.

Acknowledgements

Updates

Updated acknowledgments to account for new contributors and current copyright date.

May 2025

Front Matter

Acknowledgements & Preface Maintenance

Removed obsolete links and review group listings from acknowledgements. Fixed page numbering errors in both documents.

Chapter 1

Chapter Maintenance

Updated footer and removed most links to reduce future maintenance needs as several were broken.

Chapter 2

Chapter Maintenance

Updated footer and Visum/Vistro/Vissim nomenclature, removed obsolete HERS-OR tool from text and tables as it is no longer in use and some minor grammatical edits.

Chapter 3

Chapter Maintenance

Updated footer and Vissim nomenclature, fixed/removed numerous broken links, added reference to the new Crash Data Viewer, removed obsolete Bluetooth data capture section, and performed some minor updates and grammatical edits.

Chapter 5

Chapter Maintenance

Updated footer, fixed/removed broken links, and performed some minor language corrections and clarifications and grammatical edits.

Chapter 6

Updated Post-processing Guidance

Replaced the post processing guidance in Sections 6.12.1, 6.12.3, 6.12.5 and 6.12.6 with NCHRP 765 compliant methodology. Also updated obsolete HCM references.

Chapter 7

Chapter Maintenance

Fixed broken links, updated footer nomenclature, removed obsolete HERS-ST section as it is no longer in use and some minor grammatical edits.

Chapter 11

Appendix 11E corrections

Corrected PHF error in Table 1 plus some minor updates reflecting current HCM and HCS versions.

Chapter 18

Chapter Maintenance

Fixed broken links, updated footer nomenclature, removed obsolete CAV language and some minor grammatical edits.

Glossary & Acronyms

Document Maintenance

Updated footer nomenclature, removed/modified a few entries and some minor grammatical edits.

Technical Tools

Post-Processing spreadsheet tools

Added new post-processing tool and filled-out example spreadsheets.

July 2025

Chapter 8

Chapter Maintenance

Updated footer nomenclature, fixed broken links and some minor grammatical edits.

Chapter 10

Chapter Maintenance

Updated footer nomenclature, fixed broken links, and some minor grammatical edits. In addition, the language was updated to current ODOT, APMv2, HCM, and HDM organization.

Chapter 11

Chapter Maintenance

Updated footer & HCM nomenclature, fixed broken links, and some minor updates and grammatical edits. In addition, the HERS-ST section and references were removed as it is no longer in use.

Chapter 12

Chapter Maintenance

Updated footer & HCM nomenclature, fixed broken links, and did some minor updates and grammatical edits. Modified language regarding major/minor road v/c reporting in Sections 12.3 through 12.3.2.

Chapter 13

Section 13.4.4 Intersection v/c & Chapter Maintenance

Updated intersection v/c methodology to correct issue with properly calculating permitted-protected phasing. Clarified/updated language as needed. Fixed footers, HCM and other nomenclature, and did some minor updates and grammatical edits.

Chapter 12 & 13

Appendix 12-13A Update

Updated appendix for new software versions.

Chapter 14

Added new Section 14.18

Added new Section 14.18 on the Transit Capacity and Quality of Service Manual. Also fixed footer page numbers and broken links.

Chapter 16

Added new Air Quality sections for CO & PM analyses

Added new Sections 16.4.1 on CO analysis and 16.4.2 on PM analysis traffic data development.

Technical Tools

Synchro Templates

Updated detector templates to add a detector 2' from the stop bar for compatibility with the HCM 7th edition.

Signalized intersection v/c tool

Added revised signalized intersection v/c tool which includes more automation and improved treatment of left-turn phasing options.

Air Quality – CO & PM calculation template tools

Added new air quality calculation tools for carbon monoxide (CO) hotspot analyses and quantitative particulate matter (PM) analyses.

August 2025

Chapter 17 & Appendix 17B

Chapter Maintenance & VMT per Capita

Updated footer nomenclature, removed references to HERS (as no longer being used), updated HCM references, updated PTV Visum nomenclature, fixed numerous broken links and did some minor grammatical edits. Added new language for CEFC (TPR) VMT per capita procedures to the main chapter. Also added Appendix 17B which contains the VMT per capita procedure.

October 2025

Chapter 16 & Appendices

Added new sections on Air Quality MSAT methodology & GHG

New section completing the Air Quality section on MSAT (Mobile Source Air Toxicity) VMT computations (also used for GHG) for existing, future no-build and build and related examples. New section on GHG information, tools, methods and examples. Added new Appendix 16C on MOVES inputs and 16D on the Western States Handbook project types.

Acknowledgments

Section Maintenance

Added new staff responsible for Appendix 17B and Chapter 16 development.

Technical Tools

Example MSAT files

Added I-84 sample file workbooks used to create APM MSAT VMT examples for methodology reference and potential starting spot for analysis.

December 2025

Chapter 4

Chapter Maintenance

Updated footer nomenclature, updated HCM references, fixed broken links and did some minor grammatical edits, minor updates, and corrections. Added CEFC language update to Pedestrian & Bicycle crash risk methodology section. Updated Excess Proportion of Specific Crashes section including replacing Example 4-6.

Chapter 8

Dynamic Traffic Assignment Section 8.5

Updated DTA language, incorporating comments from Metro and miscellaneous grammar changes throughout chapter. Created Appendix 8C for reports on example projects that used DTA for reference.

Chapter 11

Updated Two-Lane Hwy Section 11.4
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Updated Section 11.4 Two Lane Highways to HCM 7th edition for Class III highways. Retained ODOT method for Class I/II highways. Revised and expanded passing & climbing lane sections with examples.

Technical Tools

Excess Proportion of Specific Crash Types calculator

Revised calculator eliminating macros and correcting to match HSM method.