


Item #3


2013 CLRP Network Report

Travel Forecasting Subcommittee
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1/24/14 COG/TPB Network Documentation  1

Report Status

- Our goal to release the draft network report today has *not* been attained
- Report is still under internal review
- Planned report release by the end of January
- The TFS will be notified of release by email
- TFS feedback on the draft report is encouraged

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Motivation

- Purpose of the report:
 - Review the TPB staff's network development process
 - Clarify and explain network elements & coding conventions
 - Provide basic summary statistics
- Networks described:
 - 2013 CLRP/ 2013-18 TIP
 - Years: 2010, 2015, 2017, 2020, 2025, 2030, 2040
 - 2010 was not part of AQC, but was developed for validation
 - Designed for use with Version 2.3.52 Travel Model
- The last network report release was June 2010
 - In pre-Ver. 2.3 Model era (though Ver. 2.3 Model was discussed in chap. 4)



Report has a technical focus

- Intended to compliment, *not* duplicate, previous documents:
 - Air Quality Conformity Report (July 2013)
 - Provides specificity on Plan assumptions
 - Version 2.3.52 User's Guide (Sept. 2013)
 - Provides detail on how model is applied and how files relate to model steps
 - Addresses network conventions in only a limited way
- Intended illuminate TPB network coding, as it currently exists in the 2.3.52 model.



Report contains 4 chapters

1. Introduction
2. Network Background
3. Cube Voyager Network Inputs
4. TPB Multi-year, Multi-modal Geodatabase



Chapter 1 Introduction

Addresses the network development “cycle” and how it facilitates other activities in the UPWP

- 1.1 Air Quality Conformity process
- 1.2 Network development program overview
- 1.3 Report Structure



Chapter 2 Network Overview

Presents foundational network entities and conventions

- 2.1 Study area
- 2.2 Time of day considerations
- 2.3 Zone area system
- 2.4 Highway network elements
- 2.5 Transit network elements
- 2.6 Travel costs
- 2.7 Node numbering



Chapter 3 Cube Voyager inputs

Details files and file attributes used by the travel model

- 3.1 Cost deflation inputs
- 3.2 Highway netw. inputs
 - Zonal land use
 - Highway link & node files
 - Toll parameter file
 - Screenlines
 - Highway statistics
- 3.3 Transit network inputs
 - Transit line files
 - Transit support files
 - Transit station file
- 3.4 Transit fare inputs
 - TAZ/Bus fare zone eqv.
 - Bus fare zone system
 - WMATA tariff params.



Chapter 4 Geodatabase (GDB)

Details the multi-year and multi-modal ArcGIS-based data system used to develop and manage the Plan networks

4.1 Highway network tables

4.2 Transit network tables

4.3 Exporting

- highway
- transit



Final comments

- We are looking forward to providing a valuable resource document that describes the existing TPB networks
- This report is overdue
- TPB staff appreciates the subcommittee feedback on the draft report, once it is released
- The ultimate goal: to provide travel model users with a better understanding of the TPB networks which are a fundamental input to the travel model

