To: New York State Department of Transportation

ENGINEERING BULLETIN

Title: DEPARTMENT-APPROVED LIST OF TRAFFIC ANALYSIS SOFTWARE PROGRAMS

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Approved:

/s/ Daniel D’Angelo

Daniel D’Angelo, P.E., Director
Design Quality Assurance Bureau

01/23/06

ADMINISTRATIVE INFORMATION:

• Effective Date. This Engineering Bulletin (EB) is effective upon signature.
• Superseded Issuances. No Engineering Instructions or Engineering Bulletins are superseded.

PURPOSE: The purpose of this EB is to announce the Department’s approved capacity analysis, traffic operation modeling, and simulation software programs for use on Department projects.

TECHNICAL INFORMATION:

• This EB does not address travel demand software such as TRANPLAN and TMODEL-2 used by the Department and others to analyze trip origins, destinations, and trip routings on a regional or area-wide level.
• Software with limited licenses will not be available to all Department engineers due to the software and training costs and the anticipated usage of the software, since many of the software packages require continual use for users to obtain and maintain proficiency.

REFERENCES: Highway Design Manual Chapter 5, Sections 5.2.2.3 Capacity Analysis Methodology and 5.2.2.4 Exceptions to the Required Capacity Analysis Methodology.

CONTACT: Technical questions concerning the usage of the capacity programs should be directed to your Regional Traffic Engineer. Questions that arise during the analysis for planning or corridor studies should be directed to the Regional Planning Group. Questions on the installation of the programs, obtaining additional copies, accessing the Department servers, or accessing the Internet should be directed to your Automation Coordinator. Questions regarding training should be directed to your Regional or Main Office training coordinator.

General questions regarding this EB should be directed to Chuck Riedel at 457-2185 or via e-mail at criedel@dot.state.ny.us or Norman Schips of the Design Quality Assurance Bureau. Norman may be reached at (518) 485-8611 or via e-mail at nschips@gw.dot.state.ny.us.
**DEPARTMENT-APPROVED LIST OF TRAFFIC ANALYSIS SOFTWARE**

<table>
<thead>
<tr>
<th>Program and Effective Date for New Analysis</th>
<th>Description/Use</th>
<th>Department Staff</th>
<th>Contact for Consultants and other Non-Department Engineers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HCS2000 1/1/05</strong></td>
<td>Traffic analysis for freeways, weaves, ramps, multilane, two-lane, signalized, unsignalized, arterials, transit and freeway facilities. The Department is evaluating HCS+, the successor to HCS 2000.</td>
<td>Site</td>
<td>McTrans Center University of Florida 512 Weil Hall PO Box 116585 Gainesville, FL 32611-6585 (352) 392-0378 <a href="http://www.mclink.ce.ufl.edu/hcs/">www.mclink.ce.ufl.edu/hcs/</a></td>
</tr>
</tbody>
</table>
| **CORSIM Version 5.1 (Part of TSIS Version 5.1) 1/1/04** | CORSIM microscopically simulates traffic and traffic control systems on integrated networks of freeway & surface streets, using commonly accepted vehicle and driver behavior models. CORSIM combines two of the most widely used traffic simulation models, NETSIM for surface streets, and FRESIM for freeways.  
- Land use traffic impact studies & access management studies  
- Freeway & surface street interchanges  
- Signal timing, coordination & preemption  
- Freeway weaving sections, lane adds & lane drops  
- Bus stations, bus routes, carpools, & taxis  
- Ramp metering & HOV lanes  
- Unsignalized intersections & signal warrants  
- Incident detection & management  
- Queuing studies involving turn pockets & queue blockage  
- Toll plazas & truck weigh stations  
- Origin-destination traffic flow patterns  
- Verification & validation of other software  
- Surrogate for field data collection  
- Public presentation & demonstration | Site | Regional IT Coordinator | McTrans Center University of Florida 512 Weil Hall PO Box 116585 Gainesville, FL 32611-6585 (352) 392-0378 www.mclink.ce.ufl.edu/hcs/ |
| **Synchro Version 5.0 & 6.0 7/1/01** | Modeling and optimizing traffic signal timings. Analyzes coordinated systems and actuated signals. Can create time space diagrams. | 5.0 Site 6.0 Limited | Trafficware PO Box 499 Sugar Land, Tx 77487 (510) 526 5891 www.traffic ware.com |
| **SimTraffic Version 5.0 & 6.0 7/1/01** | Models network of signalized and unsignalized intersections. Visually displays traffic flow for analysis and public information purposes. | 5.0 Site 6.0 Limited | Trafficware PO Box 499 Sugar Land, Tx 77487 (510) 526 5891 www.traffic ware.com |
| **Vissim Version 4.10 11/1/05** | Models network of signalized and unsignalized intersections. Visually displays traffic flow for analysis and public information purposes. | Limited | PTV America, Inc., 1128 NE 2nd Street Suite 204, Corvallis, OR 97330 (541) 754-6836 www.ptvamerica.com |
| **RODEL I 6/30/00** | Roundabout traffic analysis | Limited | Staffordshire Co. Council/ RODEL Software LTD. 11 Calton Close, Cheadle Staffordshire ST101LB United Kingdom 01144-1538-752989 |

1. Other programs may be used consistent with the guidance provided in Chapter 5, Section 5.2.2.4 of the Highway Design Manual.
2. The Department site licenses are intended for NYSDOT staff only and do not extend to local governments or consultants. Non-Department parties can order copies from the contact list in the following table.