

VALIDATION OF FHWA'S TRAFFIC NOISE MODEL (TNM): PHASE 1

August 2002
Final Report

U.S. Department of Transportation
Research and Special Programs
Administration
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Validation Of Fhwas Traffic Noise Model Tnm Phase 1

Mark Steyvers



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Validation of Fhwa's Traffic Noise Model (Tnm) U.s. Department of Transportation,2013-12 The Volpe Center Acoustics Facility in support of the Federal HighwayAdministration FHWA and the California Department of Transportation Caltrans has been conducting a study to quantify and assess the accuracyof FHWA s Traffic Noise Model TNM and make recommendations on its use The TNM Validation Study involves highway noise data collection and TNMmodeling for the purpose of data comparison Phase 1 of the study has beencompleted For this phase over 100 hours of traffic noise data werecollected at 17 highway sites around the country Tnm Version 2.5 Addendum to Validation of Fhwa's Traffic Noise Model (Tnm) U.s. Department of Transportation,2013-12-15 The Volpe Center Acoustics Facility Volpe in support of the Federal Highway Administration FHWA is conducting a multiple phase study to assess the accuracy and make recommendations on the use of FHWA s Traffic Noise Model TNM The TNM Validation Study involves highway noise data collection and TNM modeling for the purpose of data comparison In 2002 Volpe completed Phase 1 of the study For this phase over 100 hours of traffic noise data were collected at seventeen highway sites around the country The seventeen sites included open areas next to the highway with acoustically soft ground e g lawn open areas with acoustically hard ground e g pavement or water and areas next to the highway with an open area behind a single noise barrier Results indicated that TNM Version 2 0 was on average over predicting when measured sound level data were not calibrated using a reference microphone i e when site bias was not accounted for This issue of over prediction initiated the development of TNM Version 2 5 which addresses the over prediction and also has other acoustical improvements This addendum to the Phase 1 report includes results generated with TNM Version 2 5 where the results show TNM s improved performance **Winston-Salem Northern Beltway (western Section)** ,1996 **Winston-Salem Northern Beltway (Eastern Section), from US 52 North of Winston-Salem to US 421/I-40 Business East of Winston-Salem, Forsyth County** ,2007 **Supplemental Guidance on the Application of FHWA's Traffic Noise Model (TNM)** Harris, Miller, Miller & Hanson Inc,2014 TRB s National Cooperative Highway Research Program NCHRP Report 791 Supplemental Guidance on the Application of FHWA s Traffic Noise Model TNM provides state departments of transportation staff and other transportation professionals with technical guidance on using the FHWA TNM FHWA has provided substantial guidance for the routine application of TNM but scenarios exist for which there is no technical guidance The report explores ways to model traffic generated noise in a variety of settings that have not been addressed The project webpage includes Appendices A through L of the contractor s final report Publisher description **Noise and Vibration Control Engineering** István L. Vér,Leo L. Beranek,2005-11-11 Noise and Vibration Control Engineering Principles and Applications Second Edition is the updated revision of the classic reference containing the most important noise control design information in a single volume of manageable size Specific content updates include completely revised material on noise and vibration standards updated information on active noise vibration

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