

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

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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

RD Boyd



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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 **Tnm Version 2.5 Addendum to Validation of Fhwa's Traffic Noise Model (Tnm)** U.s. Department of Transportation,2013-12 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 onthe use of FHWA s Traffic Noise Model TNM The TNM Validation Study involves highway noisedata collection and TNM modeling for the purpose of data comparison In 2002 Volpe completedPhase 1 of the study For this phase over 100 hours of traffic noise data were collected atseventeen highway sites around the country The seventeen sites included open areas next tothe highway with acoustically soft ground e g lawn open areas with acoustically hardground e g pavement or water and areas next to the highway with an open area behind asingle noise barrier Results indicated that TNM Version 2 0 was on average over predictingwhen measured sound level data were not calibrated using a reference microphone i e whensite bias was not accounted for **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 Public Roads, 2001 **Noise Control Engineering Journal**, 2004 *Energy and Environmental Concerns*, 2005 National Research Council (U.S.). Transportation Research Board, 2005 Ensuring a coordinated response to highway crashes and other incidents is vital to protecting public safety keeping traffic moving and reducing environmental impacts. The TRB National Cooperative Highway Research Program's NCHRP Research Report 981 Guidelines for Quantifying Benefits of Traffic Incident Management Strategies aims to offer guidance on Traffic Incident Management (TIM) programs which can vary widely and may have different goals, guidelines, and methods applicable under a variety of data scenarios. Supplemental to the report is NCHRP Web Only Document 301 Development of Guidelines on Quantifying Benefits of Traffic Incident Management Strategies: an Implementation Plan and a Summary Presentation.

Vehicle Emission Noise Evaluation for Arizona Specific STAMINA 2.0 and Traffic Noise Model (TNM), 2000 This study was conducted to determine if the noise emission characteristics of Arizona highway vehicles are consistent with the data contained in the Federal Highway Administration's FHWA's Traffic Noise Model (TNM). This study also examined the prediction accuracy of the TNM and STAMINA models. Field measurements were made at ten separate locations representative of typical Arizona topography and traffic conditions. These sites were modeled and both TNM and STAMINA were used to generate predicted sound levels at each measurement location.

Environmental Issues 2007 National Research Council (U.S.). Transportation Research Board, 2007 This document discusses the energy and environmental issues of the transportation systems.

Synthesis of Highway Practice National Cooperative Highway Research Program, 1998 *FHWA Traffic Noise Model (TNM) Pavement Effects Implementation Study* United States Department of Transportation, 2013-12 The Volpe Center Acoustics Facility in support of the Federal Highway Administration, FHWA investigated the implementation of pavement effects in the FHWA Traffic Noise Model (TNM). Three options were considered resulting in the recommendation of two options: 1) implementation of user-defined pavement-specific emission levels (REMELs) with proof of adequate data and 2) implementation of on-board sound intensity (OBSI) adjusted tire pavement noise source levels implemented as a large database in the FHWA TNM and also as a user-defined option. Each option would also include adjusting for the pavement sound absorption by applying pavement-specific effective flow resistivity (EFR) values.

Government Reports Announcements & Index, 1996 **Fhwa Traffic Noise Model User's Guide-** Cynthia S. Y. Lee, Judith L. Rochat, U.S. Department of Transportation Federal Highway Administration, Gregg G. Fleming, 2002-03-30 In March 1998 the Federal

Highway Administration FHWA Office of Natural Environment released the FHWA Traffic Noise Model FHWA TNM Version 1 0 a state of the art computer program for highway traffic noise prediction and analysis Since then the FHWA with assistance from the Volpe Center Acoustics Facility Volpe Center and Foliage Software Systems FSS have released updates of TNM Versions 1 0a and 1 0b in March 1999 and August 1999 respectively In support of the FHWA and the California Department of Transportation the Volpe Center and FSS released Version 1 1 in September 2000 TNM 2 0 is the latest release of the TNM software Two companion reports were released with TNM Version 1 0 a Technical Manual that describes the acoustics within TNM and a User s Guide In addition prior to TNM release a data report was published that describes the vehicle noise emissions data base within TNM This document is an addendum to the FHWA TNM Version 1 0 User s Guide It details the enhancements in the program up to and including Version 2 0

Evaluation of the FHWA Traffic Noise Model, TNM, for Highway Traffic Noise Prediction in the State of Colorado Michael Hankard, Jeff Cerjan, Joshua Leasure, 2006 In 2002 CDOT undertook this study in an effort to better understand the complexities of the Federal Highway Administration s new Traffic Noise Model TNM The research involved three analysis

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FHWA Traffic Noise Model (TNM) Pavement Effects Implementation Study Judith L. Rochat, Aaron L. Hastings, David R. Read, Michael C. Lau, 2012 The Volpe Center Acoustics Facility in support of the Federal Highway Administration FHWA investigated the implementation of pavement effect sin the FHWA Traffic Noise Model TNM Three options were considered resulting in the recommendation of two options 1 implementation of user defined pavement specific emission levels REMELs with proof of adequate data and 2 implementation of on board sound intensity OBSI adjusted tire pavement noise source levels impelemented as a large database in the FHWA TNM and also as a user defined option Each option would also include adjusting for the pavement sound absorption by applying pavement specific effective flow resistivity EFR values

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Evaluation, Validation Testing, and Guidance on the Use of the New Federal Highway Administration Traffic Noise Model Rennie Williamson, 1997

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