

Title: Correlating ME-PDG with Vermont Conditions, Phase II

SPR No: 711

Project Description: Using the information gathered and work completed in Phase I, the first objective of this Phase is to determine the necessary beta-factors for calibration of the M-E PDG software by comparing in-situ pavement distresses with the software output. Both rutting and IRI will be compared at their present day values, along with their quantities over time. Using statistical methods along with NCHRP Report 1-40B *Local Calibration Guide*, a calibration and validation process will be developed and carried out to ascertain the adjustment factors to be used for pavement design in Vermont

Continuing with the progress of the overall project, the second objective of this phase will be verification of the model. Using additional sites from the 2004 Layer Coefficient Study, in-situ values will be compared with predicted to insure the model is working correctly. This model will be an "off the shelf" tool Pavement Management, Construction, and Materials & Research will use to evaluate various pavement related scenarios including value engineering proposals, new products and specialty road treatments. The end result will be better performance predictions based on our own data.

Start date: 2010

End date: 2011

Status: Active Inactive Completed

Total Dollars: \$15000

Index Terms: Administration Bridges Construction Environment

Geotechnical Maintenance Materials Pavements Safety Traffic Transit

Sponsor Organization

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Subjects: Pavement condition modeling.

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