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Title: Fatigue Performance of Piezoelectric Weigh-in-Motion Sensors

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Evaluation Of Thermocoax Piezoelectric Weigh In Motion Sensors

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Evaluation Of Thermocoax Piezoelectric Weigh In Motion Sensors:

Evaluation of Thermocoax Piezoelectric Weigh-in-Motion Sensors Highway Innovative Technology Evaluation Center (U.S.),2001-01-01 Prepared by the Highway Innovative Technology Evaluation Center HITEC a CERF Innovation Center This report describes a program of installation testing and evaluation designed to determine the capabilities and limitations of Thermocoax s weigh in motion sensor **Evaluation of Thermocoax Piezoelectric Weigh-in-motion Sensors**

,2001-01-01 This report Evaluation of Thermocoax Piezoelectric Weigh in Motion Senosrs describes a program of installation testing and evaluation designed to determine the capabilities and limitations of Thermocoaxs weigh in motion sensor

Evaluation of the Inter-Lok Retaining Wall System Highway Innovative Technology Evaluation Center (U.S.),2002-01-01 Prepared by the Highway Innovative Technology Evaluation Center HITEC a CERF IIEC Innovation Center This report describes a HITEC evaluation designed to determine the basic capabilities and limitations of the INTER LOK System for use as a technically viable precast mechanically stabilized earth retaining wall system The evaluation was conducted based on design construction performance and quality assurance information outlined in the HITEC Protocol The INTER LOK System features a cross shaped segmental precast concrete facing panel connected to metallic rebar and anchor plate type of soil reinforcement attached to the facing panels by a keyplate that interlocks with the facing panels *Evaluation of the Tricon Retained Soil Wall System* Highway Innovative Technology Evaluation Center (U.S.),2002-01-01 Prepared by the Highway Innovative Technology Evaluation Center a CERF IIEC Innovation Center This report describes a HITEC evaluation designed to determine the basic capabilities and limitations of the Tricon System for use as a technically viable precast mechanically stabilized earth retaining wall system The evaluation considered material design construction performance and quality assurance information outlined in the HITEC Protocol Evaluation of the Geo-Con VERT Wall System Highway Innovative

Technology Evaluation Center (U.S.),2002-01-01 Prepared by the Highway Innovative Technology Evaluation Center HITEC a CERF IIEC Innovation Center This report describes a HITEC evaluation designed to determine the basic capabilities and limitations of the Geo Con VERT Wall for use as a technically viable permanent excavation support retaining wall system The evaluation was conducted based on design construction performance and quality assurance information outlined in the HITEC Protocol The Geo Con VERT Wall System is an in situ retaining wall system intended as an alternative to other types of cut walls such as soldier pile and anchored retaining walls Geo Con VERT Wall System is comprised of deep soil mix columns consisting of overlapping or tangent soil cement columns along the front face backed up by tangent rows of overlapping soil cement columns a soil cement relieving platform overtop the columns steel beams embedded in the front face soil cement columns for support of the permanent facing and permanent facing consisting of precast reinforced concrete panels or reinforced cast in place concrete The relieving platform is intended to provide internal stability by typing the soil mix columns together and transferring the load to the bottom of the columns *Environmental Technology Verification*

Report for the Plasma Enhanced Melter, 2003-01-01 Prepared by the Environmental Technology Evaluation Center EvTEC a service center of CERF IIEC This Technology Verification report describes the nature and scope of the environmental evaluation of the performance of the Plasma Enhanced Melter PEM system for waste treatment The evaluation was conducted through a cooperative program established in 1998 between the Washington State Department of Ecology Integrated Environmental Technology Inc Allied Technology Group and the Civil Engineering Research Foundation The goal of this report is to provide potential users and purchasers of the PEM system with information they need to make more informed decisions regarding the performance of PEM as an equivalent or alternative to incineration for treating hazardous waste

Evaluation of Weigh-in-motion Systems Benjamin H. Cottrell, 1992 The objective of this research was to evaluate low cost weigh in motion systems The three systems evaluated were 1 a capacitance weigh mat system 2 a bridge weighing system and 3 a piezoelectric cable sensor system All three systems have a two lane capability An evaluation was made of 1 the quality of the data 2 the performance of the equipment 3 the applications of the equipment and its ease of use and 4 the format of the data and its usefulness Although objective data were used when possible the majority of the evaluation is subjective The quality of the data from each of the three systems is about the same The piezoelectric cable system provides slightly lower quality data than the other two systems The equipment of the capacitance weigh mat performed well that of the bridge system was adequate and there was concern about the durability of the piezoelectric cable system Because of the tradeoffs between the capacitance weigh mat system and the bridge system it is difficult to rank them The piezoelectric cable system's sensors are permanently installed therefore it is not as portable as the other two systems With regard to the format of the data and its usefulness which are dependent mostly on the software and not the sensors the capacitance weigh mat system is flexible and provides individual truck records in two formats the bridge system provides the most comprehensive tables and the piezoelectric cable system is limited and depends on other software to generate additional tables Suggestions are made about how to use the systems and how to improve their performance

American Book Publishing Record, 2001

Pavement Design and Materials A. T. Papagiannakis, E. A. Masad, 2017-02-22 A comprehensive state of the art guide to pavement design and materials With innovations ranging from the advent of Superpave™ the data generated by the Long Term Pavement Performance LTPP project to the recent release of the Mechanistic Empirical pavement design guide developed under NCHRP Study 1 37A the field of pavement engineering is experiencing significant development Pavement Design and Materials is a practical reference for both students and practicing engineers that explores all the aspects of pavement engineering including materials analysis design evaluation and economic analysis Historically numerous techniques have been applied by a multitude of jurisdictions dealing with roadway pavements This book focuses on the best established currently applicable techniques available Pavement Design and Materials offers complete coverage of The characterization of traffic input The characterization of pavement bases subgrades

and aggregates Asphalt binder and asphalt concrete characterization Portland cement and concrete characterization Analysis of flexible and rigid pavements Pavement evaluation Environmental effects on pavements The design of flexible and rigid pavements Pavement rehabilitation Economic analysis of alternative pavement designs The coverage is accompanied by suggestions for software for implementing various analytical techniques described in these chapters These tools are easily accessible through the book's companion Web site which is constantly updated to ensure that the reader finds the most up to date software available *Canadian Journal of Civil Engineering*, 1994 **National Traffic Data Acquisition**

Conference (NATDAC '96), 1996 *Laboratory and Field Evaluation of Piezoelectric Weigh-in-Motion Sensors* AT.

Papagiannakis, EC. Johnston, S. Alavi, JA. Mactutis, 2001 This paper presents the results of the laboratory and field evaluation of the piezoelectric weigh in motion WIM sensors of two manufacturers namely Vibracoax VC and Measurements Specialties Incorporated MSI The laboratory evaluation involved fatigue testing of two sensor types for each manufacturer one factory encapsulated and the other bare The fatigue testing involved three contact stresses as well as dry and wet conditions Significant sensor fatigue was experienced only under wet conditions The field evaluation of these sensors was carried in both asphalt concrete AC and Portland concrete PC installations The facilities at Nevada's WestTrack and at a CalTrans Heavy Vehicle Simulator site were used respectively All sensors exhibited high raw signal precision at any given time Raw signal amplitude seemed to depend on temperature for the sensors installed in the AC pavement For increasing pavement temperature the raw signal amplitude of the VC sensors decreased while that of the MSI sensors increased The signal to noise ratio of the raw signal increased with increasing temperature for the sensors installed in the AC pavement WIM load measurement precision and sensitivity to temperature varied between sensors The poor load precision of some of the sensors was attributed to the load calculation algorithm in the WIM data acquisition system rather than to sensor malfunctioning During the period of the field tests no consistent changes in WIM axle load measurements were observed that could be attributed to piezoelectric sensor fatigue *Road & Transport Research*, 1995 *Evaluation of Measurement Specialties*

Inc. Piezoelectric Weigh-In-Motion Sensors, 2001-01-01 Weigh in motion sensors are embedded in highways to measure the loads imparted on roadways This report presents the results of testing the performance and durability of two weigh in motion sensors manufactured by Measurement Specialties Inc The tests were performed in a laboratory in Portland ce *Second Interim Report on the Installation and Evaluation of Weigh-in-motion Utilizing Quartz-piezo Sensor Technology* Donald A.

Larsen, Anne-Marie H. McDonnell, 1999 **Development and Evaluation of Piezoelectric Ceramic-polymer Composite Sensors for Weigh-in-motion Applications** Patrick J. Szary, 2009 This research explored the development and implementation of a novel durable higher voltage and lower temperature dependant weigh in motion WIM sensor These better sensors will require fewer lane closings and replacements than existing sensors They will also aid the Departments of Transportation to better identify those vehicles that do not comply with the current weight restrictions The primary focus of

the research was to create a full scale WIM sensor that is less temperature dependent and more durable than traditional WIM sensors. Traditionally the data collected from the sensor may be utilized in two ways. The first is by using static vehicle effects on the sensor which corresponds to the weight of the vehicle; this data can be used for enforcement of the vehicle legal weight limits. The second is by using the dynamic loading of the sensor which relates to the actual loading that the roadway is experiencing; this data will be useful to engineers who must design the roadway as well as plan for repair schedules. In addition, instead of just using WIM data to screen commercial vehicles or for pavement design, there is a new recognition that good data can be useful for bridge structural analysis, safety analysis, traffic control and operations, freight management and operations, facility planning and programming, and standards and policy enforcement as per the recent report *Effective Use of Weigh in Motion Data*, the Netherlands Case Study, FHWA, October 2007. In lieu of this development, the need for better sensors to provide good data is more important today than ever before. The ceramic polymer composite sensors performed extremely well in all laboratory testing. However, under full scale field implementation, a rather aggressive goal, the sensors and sensor assemblies experienced some level of failure. During the forensic evaluation, it was found that the pavement section for the full scale testing was already quite old and significantly fatigued. Therefore, the test site was prone to fail almost immediately after installation. Discounting the results of the full scale field testing, the PZT 5H ceramic polymer composite sensor performed with less variability due to temperature and produced higher voltage output than standard PVDF materials.

Implementation and Evaluation of a Low-cost Weigh-in-motion System Taek Mu Kwon, 2016. Building a WIM system around polymer piezoelectric film sensors called BL sensors costs only a fraction of the traditional WIM system built around crystalline quartz piezoelectric sensors called Lineas sensors. However, BL sensors are highly sensitive to temperature, which limits the accuracy of weight measurements. The objective of this research was to investigate the performance of BL sensors head to head with Lineas sensors by installing a BL WIM system and collecting data from the same highway. After the test site installation, pavement temperatures were recorded as part of each vehicle record from both Lineas and BL sensor based WIM stations. The analysis of data collected over 10 months showed that temperature dependency of BL sensors can be removed in terms of average but not variance. More specifically, the average of axle weights after temperature based calibration was about the same for both BL and Lineas sensors, but the variance was much higher for BL sensors. In conclusion, if BL sensors are used, pavement temperatures must be recorded as part of vehicle records. Then the weights calibrated based temperature would be as accurate as Lineas sensors in terms of the average but not variance.

Evaluation of Piezoelectric Weigh-in-motion System, 1994. The analysis presented deals with the accuracy of a piezoelectric weigh in motion system installed on Interstate 19 in the state of Oregon. Axle weights for 5 axle tractor semi trailer trucks were measured by the piezoelectric weigh in motion system and then compared with the static weights. An analysis of variance and Dunnett's test were conducted in order to determine if there existed a significant difference between

data The analysis showed no significant difference for steering axle and tandem axle weights However the analysis did indicate that a significant difference existed for trailing tandem *Implementation of Advanced Fiber Optic and Piezoelectric Sensors* ,1999 Piezoelectric Sensors for Weigh-In-Motion Systems J. Iaquina,E. Merliot,L-M Cottineau,J-P Desroche,2004 Experimental campaigns conducted on the theme of weigh in motion exhibited an unexpected scattering of the weight measurements In spite of several attempts no argument was found to satisfactorily explain the dispersal in particular for the sites implementing piezoelectric sensors After tackling this problem numerically in a previous study the present investigation aims at understanding experimentally the behavior of such systems within the material in which they are embedded in the road A field campaign utilizing an instrumented truck confirmed a loss of sensitivity at the ends of the sensor This result was also corroborated by laboratory testing on a servohydraulic jack It is shown that the location of a load over the sensor affects its response and that only a small part of the traffic lane is saved from edge effects The major mission of this work is to make users of weigh in motion systems based upon piezoelectric sensors aware of this phenomenon so that they can take actions to recognize and compensate for the potential measurement errors associated with using this type of sensor

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