Thursday, January 14, 2010, 8:00am-12:00pm, Marriott, Thurgood Marshall East

Status of FHWA's Long-Term Bridge Performance Program

Dr. Hamid Ghasemi, Federal Highway Administration, presiding

Sponsored by Committee on Structures Maintenance

The goal of FHWA's 20-year Long Term Bridge Performance (LTBP) research program is to develop a better understanding of how highway bridges perform under a variety of service conditions. This workshop presents an update on the program goals, priorities, main features and current status. The ongoing pilot phase of the program will be described with information on the regimen of visual inspection, nondestructive testing, sampling (such as deck cores), instrumentation, modeling, load testing and monitoring. The findings and conclusions of the pilot study will help direct future program activities. The long term data collection phase and the process of selecting LTBP bridges will also be presented.

Long Term Bridge Performance Program, Part 1

Hamid Ghasemi, Federal Highway Administration, presiding

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Opening Remarks (P10-1551)

Jorge Pagan, Federal Highway Administration

LTBPP Accomplishments (P10-1552)

Hamid Ghasemi, Federal Highway Administration

LTBPP –Research Approach (P10-0254)

Ali Maher, Rutgers University

LTBPP –Research Priorities (P10-1553)

John Hooks, Highway R&D

LTBPP Pilot Study Phase (P10-0255)

John Penrod, Federal Highway Administration

Visual Inspection of the LTBPP Pilot Bridges (P10-0257)

Andrew Foden, Parsons Brinckerhoff

Pilot Bridge Preliminary Deck Surveys (P10-0260)

Nenad Gucunski, Rutgers University

Michael Carey Brown, Virginia Transportation Research Council

Richard Weyers, Virginia Polytechnic University & State University

Spencer Guthrie, Brigham Young University

Question and Answer Session

BREAK
LTBPP Bridge Assessment Decisions Tool (P10-1546)
Benoit Kroely, Advitam
Alexandre Chaperon, Advitam

Pilot Bridge Live Load Dynamic Testing and Long Term Monitoring (P10-0259)
Tommy E. Cousins, Virginia Polytechnic University & State University
Paul Barr, Utah State University
Marvin W. Halling, Utah State University
Carin Roberts-Wollmann, Virginia Polytechnic University & State University

LTBPP Data Infrastructure Managing Diverse Data Types (P10-0261)
Mathaeus Dejori, Siemens Corporate Research
Claus Neubauer, Siemens Corporate Research

Integrated Asset Management (P10-1554)
Larry Cullari, Federal Highway Administration

Proposed Methodology for Bridge Sampling (P10-1555)
Nick Vitillo, Rutgers University
Ali Rezvani, Rutgers University

LTBPP-Moving Forward (P10-0262)
Frank Moon, Drexel University
Ali Maher, Rutgers University

Panel Discussion (P10-0996)
Ali Maher, Rutgers University
Dennis Mertz, University of Delaware
Frank Moon, Drexel University
Emin Aktan, Drexel University
Andrew Foden, Parsons Brinckerhoff
John Hooks, Highway R&D
Steve Chase, University of Virginia
Dan Frangopol, Lehigh University