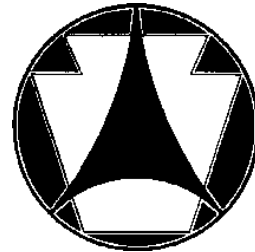

NORTHEAST DSR-BBR WORKSHOPS

NECEPT Regional Pooled Fund Study Task R3: Training, Certification, and Specification Coordination

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University-Based Research, Education,
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Agreement No. 359704, Work Order 18



FINAL REPORT

NOVEMBER 1999

By D. A. Anderson, M. O. Marasteanu, J. M. Mahoney, J. E. Stephens, K. Mooney

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16. Abstract Following the initial round robin that was held in 1997 to evaluate the repeatability of the dynamic shear rheometer, a series of workshops were held to identify current testing practice and to improve that practice. Two Binder Technician Workshops were held in January 1998, one at the Connecticut Advanced Pavement Laboratory (CAP Lab) at the University of Connecticut and one at Northeast Center of Excellence for Pavement Technology (NECEPT) at Pennsylvania State University. At these binder technician workshops the techniques and procedures used by the laboratories in the Northeast were reviewed. Before attending the workshops each participant was sent a questionnaire to complete and a set of samples to test in the DSR and BBR. This testing was not intended as a round robin but instead provided each participant with a datum from which to evaluate their respective procedures. The questionnaire results revealed a diversity of current practices among the participating laboratories. The variation in the techniques was linked, in part, to ambiguity in the specifications. The test results were summarized and were further used to calculate the variability within and between laboratories (repeatability and reproducibility). The test results were identified by equipment manufacturer without any reference to the identity of the participants. The highest variability values were obtained for the 8-mm plate for the complex modulus data. The observations and comments resulting from the discussions held during the workshop were summarized. Issues related to handling of asphalt binders, temperature calibration, DSR sample preparation and test method, and BBR sample preparation and test method were addressed.			
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