

Period Covered: 10/1/04 through 6/30/05 (Quarterly Report)

KSDOT Progress Report

for the

## State Planning and Research Program

PROJECT TITLE: Evaluating Load-Distribution, Fatigue Performance, and Horizontal Shear Transfer Mechanisms in Fiber-Reinforced Composite Honeycomb Bridge Decks		
PROJECT MANAGER: Dave Meggers	Project No: RE-0330-01/RE-0332-01 TPF-5(071)	Project is:  _____ PLANNING
Annual Budget \$100,000	Multi Year Project Budget \$223,900	<u>  X  </u> RESEARCH & DEVELOPMENT
<p>PROGRESS: As previously reported Mike Stein, the research engineer working on the project, and the graduate student working on the project (Amin Akhnoukh) have both left Kansas State University.</p> <p>The discussion with the Kansas DOT has led to Kansas DOT taking over the project and having the Project Monitor (Dave Meggers) complete the project. All of the remaining budgeted testing funds have been re-allocated to KDOT and work has begun on the completion of the project. The remaining administrative funds have been retained by Kansas State University to allow Dr. Peterman to assist in analysis of the test data and prepare a project report.</p> <p>Fatigue testing of a typical panel was performed during the last reporting period. A 12 inch wide 6 inch thick FRP panel was subjected to negative and positive bending stresses. 2,000,000 Cycles at L/D of 400, 2,000,000 Cycles at L/D of 200 and several thousand cycles at L/D of 100 before failure of the panel occurred.</p> <p>PROJECT PERSONNEL FROM KSU CIVIL ENG: Dr. Robert J. Peterman</p> <p>PROJECT PERSONNEL FROM KANSAS DOT: David Meggers, Research Development Engineer</p> <p>SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:</p> <p>The Project Monitor intends to:</p> <ul style="list-style-type: none"><li>Set up and instrument the distribution-width panels</li><li>Perform fatigue testing of the joint system panels.</li></ul>		
STATUS AND COMPLETION DATE:		
Percentage of work completed to date for total project: Project is <u>40 %</u> Complete		
_____ on schedule <u>  X  </u> * behind schedule		
Expected Completion Date: <u>6/30/06 if the above changes are implemented.</u>		