



**SPR Quarterly Progress Report**  
July 1, 2007 through September 30, 2007

Date: October 30, 2007

TO: Technical Advisory Committee Members:  
Craig Shike, ODOT  
Matthew Stucker, ODOT  
Scott Nelson, ODOT  
Steve Soltesz, ODOT  
Tim Rogers, FHWA

FROM: Steve Soltesz, Research Coordinator (ph: (503) 986-2851)

1. **Project**

Environmental Durability of Fiber Reinforced Composite Repairs for Diagonally Cracked Reinforced Concrete Bridges  
SPR 652

2. **Key Dates**

Start Date for ODOT: April 30, 2007  
Completion Date for ODOT: December 31, 2008

3. **Principal Investigators**

Dr. Christopher Higgins

4. **Progress**

- Environmental chamber installation complete (piping and electrical).
- Water bath constructed.
- Test specimens for water saturation constructed, precracked, and injected.
- Two-specimens (IT configuration for freeze-thaw) constructed.
- Six small-scale test specimens constructed and prepared for surface bonding.
- Beam moulds purchased for materials comparison.
- All CFRP materials acquired (MBrace, Fyfe, Edge, Sika)

5. **Problems**

- No significant problems.

**6. Work Planned for Next Quarter**

- Apply CFRP to four full-size specimens and begin environmental exposure.
- Construct two additional full-size girder specimens.
- Construct beam specimens for materials comparison.
- Test 6 small-scale specimens.

**7. Finances**

SPR Project Summary

<b>VENDOR</b>	<b>FY'07</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>TOTALS</b>
ORIGINAL BUDGET					\$ -
<b>REVISED BUDGET</b>	\$ 120,314	\$ 12,000	\$ 11,686		\$ 144,000
EXPENDITURES - VENDOR	\$ 120,314	\$ -	\$ -	\$ -	\$ 120,314
<b>BALANCE</b>	\$ -	\$ 12,000	\$ 11,686	\$ -	\$ 23,686

<b>ODOT</b>	<b>FY'07</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 77,500	\$ 103,000	\$ 103,000	\$ 36,500	\$ 320,000
<b>REVISED BUDGET</b>	\$ 7,032	\$ 5,000	\$ 2,000	\$ -	\$ 14,032
EXPENDITURES - ODOT	\$ 7,032	\$ 1,168	\$ -	\$ -	\$ 8,200
<b>BALANCE</b>	\$ -	\$ 3,832	\$ 2,000	\$ 36,500	\$ 42,332

<b>PROJECT</b>	<b>FY'07</b>	<b>FY'08</b>	<b>FY'09</b>	<b>FY'10</b>	<b>TOTALS</b>
ORIGINAL BUDGET	\$ 77,500	\$ 103,000	\$ 103,000	\$ 36,500	\$ 320,000
<b>REVISED BUDGET</b>	\$ 127,346	\$ 17,000	\$ 13,686	\$ 0	\$ 158,032
EXPENDITURES - PROJECT	\$ 127,346	\$ 1,168	\$ -		\$ 128,514
<b>BALANCE</b>	\$ -	\$ 15,832	\$ 13,686	\$ 0	\$ 29,518