



SPR Quarterly Progress Report
January 1, 2008 through March 30, 2008

Date: May 16, 2008

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: 4/30/07
Completion Date for ODOT: 12/31/08

3. **Principal Investigators**

Dr. Christopher Higgins

4. **Progress**

- Two T-specimens precracked repaired and placed in freeze-thaw chamber; should be complete end of May.
- Two control specimens constructed, precracked and repaired. Awaiting testing.
- IT-specimens continue in water saturation chamber.
- Freeze-thaw of two IT configuration specimens complete and structural tests completed.
- Modulus of rupture beam specimens constructed with various FRP manufacturer materials. MOR specimens now in water and freeze-thaw chambers.

- All reduced scale specimens tested.

5. Problems

- No significant problems.

6. Work Planned for Next Quarter

- Test two freeze-thaw T-specimens.
- Test two control specimens (1 IT and 1 T)
- Construct two beam specimens for combined freeze-thaw and fatigue.
- Prepare report on scale tests of FRP.

7. Finances

SPR Project Summary

VENDOR	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET					\$ -
REVISED BUDGET	\$ 120,314	\$ 23,686	\$ -		\$ 144,000
EXPENDITURES - VENDOR	\$ 120,314	\$ -	\$ -	\$ -	\$ 120,314
BALANCE	\$ -	\$ 23,686	\$ -	\$ -	\$ 23,686

ODOT	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 77,500	\$ 103,000	\$ 103,000	\$ 36,500	\$ 320,000
REVISED BUDGET	\$ 7,032	\$ 5,500	\$ 6,000	\$ -	\$ 18,532
EXPENDITURES - ODOT	\$ 7,032	\$ 4,083	\$ -	\$ -	\$ 11,115
BALANCE	\$ -	\$ 1,417	\$ 6,000	\$ 36,500	\$ 43,917

PROJECT	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 77,500	\$ 103,000	\$ 103,000	\$ 36,500	\$ 320,000
REVISED BUDGET	\$ 127,346	\$ 29,186	\$ 6,000	\$ 0	\$ 162,532
EXPENDITURES - PROJECT	\$ 127,346	\$ 4,083	\$ -		\$ 131,429
BALANCE	\$ -	\$ 25,103	\$ 6,000	\$ 0	\$ 31,103