



SPR Quarterly Progress Report
October 1, 2007 through December 31, 2007

Date: February 6, 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:
Completion Date for ODOT:

3. Principal Investigators

Dr. Christopher Higgins

4. Progress

- Environmental chamber operational and tuned for freeze-thaw of specimens.
- Test specimens for water saturation wrapped with CFRP and placed in water chamber.
- Two IT configuration specimens in environmental chamber and 8 freeze-thaw cycles are applied per day. Specimens should complete 300 cycles in mid-February
- Six small-scale specimens wrapped with CFRP.
- One small-scale specimen tested.

5. **Problems**

- No significant problems.

6. **Work Planned for Next Quarter**

- Construct four full-size specimens (2 T beams for freeze-thaw exposure) and one T and one IT-beam for control tests.
- Test two freeze-thaw IT-specimens.
- Construct beam specimens for materials test comparison.
- Complete testing of small-scale specimens.

7. **Finances**

SPR Project Summary

VENDOR	FY'07	FY'08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET					\$ -
REVISED BUDGET	\$ 120,314	\$ 12,000	\$ 11,686		\$ 144,000
EXPENDITURES - VENDOR	\$ 120,314	\$ -	\$ -	\$ -	\$ 120,314
BALANCE	\$ -	\$ 12,000	\$ 11,686	\$ -	\$ 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	\$ 5,000	\$ 2,000	\$ -	\$ 14,032
EXPENDITURES - ODOT	\$ 7,032	\$ 2,850	\$ -	\$ -	\$ 9,882
BALANCE	\$ -	\$ 2,150	\$ 2,000	\$ 36,500	\$ 40,650

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	\$ 17,000	\$ 13,686	\$ 0	\$ 158,032
EXPENDITURES - PROJECT	\$ 127,346	\$ 2,850	\$ -		\$ 130,196
BALANCE	\$ -	\$ 14,150	\$ 13,686	\$ 0	\$ 27,836