



SPR Quarterly Progress Report
July 1, 2008 through September 30, 2008

Date: October 22, 2008

TO: Technical Advisory Committee Members:
Tim Rogers, FHWA
Tony Kojundic, Silica Fume Association
Richard Hart, PE, ODOT
Norris Shippen, ODOT
Craig Shike, ODOT
Steve Soltesz, ODOT

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

1. Project

Abrasion-Resistant Concrete Mix Designs for Bridge Decks
SPR 622

2. Key Dates

Start Date for ODOT: October 2004
Completion Date for ODOT: December 2009

3. Principal Investigators

Todd Scholz
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4. Progress

- Reviewed additional literature to further investigate steam curing methods with emphasis on when to initiate steam curing.
- Developed an experiment design for a pilot study to investigate curing methods (water curing versus steam curing)
- Developed an new experiment design for additional investigation of HPC mix designs

5. **Problems**

- Literature on curing methods for concrete is sparse

6. **Work Planned for Next Quarter**

- Conduct testing to determine air entraining agent quantity and admixture quantity for pilot study
- Mixing and casting concrete cylinder for all the concrete mixes for pilot study
- Conducting tests for fresh and hardened properties of concrete.

7. **Finances**

SPR Project Summary

VENDOR	FY'04	FY05	FY06	FY07	FY08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 14,000	\$ 164,000	\$ 25,000	\$ 25,000	\$ 12,000	\$ -	\$ -	\$ 240,000
REVISED BUDGET	\$ -	\$ 21,810	\$ 33,019	\$ 312	\$ 95,328	\$ 74,360	\$ -	\$ 224,829
EXPENDITURES - VENDOR	\$ -	\$ 21,810	\$ 33,019	\$ 312	\$ 95,328	\$ -	\$ -	\$ 150,469
BALANCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,360	\$ -	\$ 74,360
ODOT	FY'04	FY05	FY06	FY07	FY08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 1,626	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ 21,626
REVISED BUDGET	\$ -	\$ 5,747	\$ 9,795	\$ 7,107	\$ 6,429	\$ 4,000	\$ 2,000	\$ 35,078
EXPENDITURES - ODOT	\$ -	\$ 5,747	\$ 9,795	\$ 7,107	\$ 6,429	\$ 1,719	\$ -	\$ 30,797
BALANCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,281	\$ -	\$ 2,281
PROJECT	FY'04	FY05	FY06	FY07	FY08	FY'09	FY'10	TOTALS
ORIGINAL BUDGET	\$ 15,626	\$ 169,000	\$ 30,000	\$ 30,000	\$ 17,000	\$ -	\$ -	\$ 261,626
REVISED BUDGET	\$ -	\$ 27,557	\$ 42,814	\$ 7,419	\$ 101,757	\$ 78,360	\$ 2,000	\$ 259,907
EXPENDITURES - PROJECT	\$ -	\$ 27,557	\$ 42,814	\$ 7,419	\$ 101,757	\$ 1,719	\$ -	\$ 181,266
BALANCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,641	\$ 2,000	\$ 78,641