

**QUARTER 3 2005**

**ANIMAL VEHICLE CRASH MITIGATION USING ADVANCED TECHNOLOGY**

SPR 3(076) & Misc. Contract & Agreement No. 17,363

for

**Oregon Department of Transportation  
Research Unit  
200 Hawthorne SE, Suite B-240  
Salem OR 97310**

and

**Federal Highway Administration  
400 Seventh Street SW  
Washington, DC 20590**

and

**Alaska Department of Transportation and Public Facilities, and the Departments of Transportation of California, Indiana, Iowa, Kansas, Maryland, Montana, Nevada, New Hampshire, New York, North Dakota, Pennsylvania, Wisconsin, and Wyoming**

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## ***Monthly report Animal-vehicle pooled fund study***

### ***July 2005***

#### **Task 1: Identify potential advanced technology systems 100%**

This task is complete

#### **Task 2: Locate potential study sites 100%**

Task complete

#### **Task 3: Document existing site conditions 100%**

Task complete

#### **Task 4: Implement and test systems 80%**

##### General

1. The end date for the contract was changed from 30 Jun 2005 to 31 Dec 2005.
2. Further continuation of the project depends on the outcome of the discussion between representatives from the TAC and Yellowstone NP.
3. IN, WI, AK and IA will not be funding a possible extension of the project.

##### MT site (Yellowstone)

1. On Fri 17 June 2005 TAC representatives (from KS) talked with Yellowstone NP representatives about Yellowstone NP's request to remove the system by 15 Sep 2005. Yellowstone NP representatives agreed to further discuss it in greater detail with additional TAC representatives, including from ODOT.
2. On Thu 21 July 2005 a teleconference was held between representatives of the TAC (Felix Martinez, Bill Branch, Alisa Babler) and a representative from Yellowstone NP (John Varley) to discuss the future of the Yellowstone site. John Varley recommended that the TAC write a letter to the superintendent.
3. Felix Martinez (ODOT) wrote a letter to Yellowstone NP asking to keep the system in place for an additional 3 years (see attachment A)

##### PA site

1. Oh Deer has not been in touch after their contract was terminated.

#### **Task 5: Collect post-implementation site data 30%**

#### **Task 6: Evaluate system effectiveness, acceptance and performance 2%**

#### **Task 7: Produce final report 90%**

**Additional Work / Issues**

The actual co-ordination between all the organizations and people involved for the MT (Yellowstone) site as well as the Pennsylvania site continues to be much more labor intensive than anticipated.

Marcel Huijser

**Attachment A**

Letter from ODOT to Yellowstone NP

See separate file

## ***Monthly report Animal-vehicle pooled fund study***

### ***August 2005***

#### **Task 1: Identify potential advanced technology systems 100%**

This task is complete

#### **Task 2: Locate potential study sites 100%**

Task complete

#### **Task 3: Document existing site conditions 100%**

Task complete

#### **Task 4: Implement and test systems 80%**

##### General

1. No word from Yellowstone NP yet with regard to potential continuation of the effort at the Yellowstone site.

##### MT site (Yellowstone)

1. STS submitted a draft chapter on modifications to the system after it was installed. It was forwarded for review.

##### PA site

2. Oh Deer has not been in touch after their contract was terminated.

#### **Task 5: Collect post-implementation site data 30%**

#### **Task 6: Evaluate system effectiveness, acceptance and performance 2%**

#### **Task 7: Produce final report 90%**

#### **Additional Work / Issues**

The actual co-ordination between all the organizations and people involved for the MT (Yellowstone) site as well as the Pennsylvania site continues to be much more labor intensive than anticipated.

Marcel Huijser

## ***Monthly report Animal-vehicle pooled fund study***

### ***September 2005***

#### **Task 1: Identify potential advanced technology systems 100%**

This task is complete

#### **Task 2: Locate potential study sites 100%**

Task complete

#### **Task 3: Document existing site conditions 100%**

Task complete

#### **Task 4: Implement and test systems 80%**

##### General

1. ODOT received a response letter from Yellowstone NP. The letter allows for a 3 year extension at the Yellowstone site, but it comes with requirements and restrictions (see Appendix A).
2. Carol Tan has replaced AJ Nedzesky as the FHWA representative.

##### MT site (Yellowstone)

1. MDT reported that a solar panel disappeared.
2. WTI (Amanda Hardy) confirmed that the solar panel from station 17 is missing. It appears to have been stolen (value is about \$400). It will be replaced in combination with other system modifications. According to Duncan Patten (Black Butte Ranch) the solar panel disappeared at least several weeks before it was reported.
3. WTI (Amanda Hardy) observed that two new elk warning signs have been installed, a couple of miles north of the site with the animal detection system and about 8 miles south of the site. The signs have continuously activated LED lights outlining the sign. The sign was not installed by MDT and it appears to conflict with MUTCD regulations. The sign was installed by Yellowstone NP (pers. com. Christie Hendrix). WTI has informed the park that the installation of the signs complicates the evaluation of the system since we can now no longer distinguish between the effect of the presence of the system and the effect of the presence of these new signs.
4. STS is conducting tests that suggest that the communication problems with station 3 may be due to a software error of the manufacturer, and not necessarily because of a lack of a straight line of sight.
5. WTI started working on a draft work scope for the 3 year extension. This document includes requirements, definitions and checklists, and will be

developed in close cooperation with MDT and ODOT. ODOT will then coordinate the requirements, definitions and checklists with Yellowstone NP.

PA site

3. Oh Deer has not been in touch after their contract was terminated.

**Task 5: Collect post-implementation site data      30%**

**Task 6: Evaluate system effectiveness, acceptance and performance 2%**

**Task 7: Produce final report      90%**

**Additional Work / Issues**

The actual co-ordination between all the organizations and people involved for the MT (Yellowstone) site as well as the Pennsylvania site continues to be much more labor intensive than anticipated.

Marcel Huijser

**Attachment B**

Letter from Yellowstone NP to ODOT

See separate file