



January 15, 2011

Ms. Robin Hobbs, *HAAM 30-C*  
Phone: (202) 366-4004  
U.S. Department of Transportation  
Federal Highway Administration  
Office of Acquisition Management  
**Mail Stop: E65-101**  
Washington, DC 20590

Ms. Debbie Walker, HRDI-13  
Federal Highway Administration  
Pavement Performance Division  
6300 Georgetown Pike  
McLean, VA 22101

Reference: **Quarterly Progress Report for**  
ARA LTPP Contract Weigh-In-Motion Calibrations and Validations  
FHWA Contract No. DTFH61-10-D-00019

Dear Ms. Hobbs and Ms. Walker:

Enclosed please find one copy of our Quarterly Progress Report (QPR) for the quarter ending December 30, 2010.

If you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,  
Applied Research Associates, Inc.

A handwritten signature in blue ink that reads "Olga I. Selezneva". The signature is written in a cursive style with a large initial 'O'.

Olga I. Selezneva, Ph.D.  
Project Manager

enclosure

cc: Robin Gates

## **QUARTERLY PROGRESS REPORT - QUARTER ENDING DECEMBER, 2010**

Contract Title: Weigh-In-Motion Calibrations and Validations

Contract Number: DTFH61-10-D-00019

Contract Project Manager: Olga I. Selezneva, Ph.D.

### **Contract Summary**

Contract Start Date: April 28, 2010

Contract Completion Date: April 27, 2011

Contracting Officer (CO): Robin Hobbs, HAAM 20-B, Phone: (202) 366-4004

CO's Technical Representative: Debbie Walker, HRDI-13, Phone: (202)-493-3068

### **SUMMARY OF WORK PERFORMED LAST QUARTER**

#### **Task Order No. DTFH61-10-D-00019-T-10001**

Requisition/Reference No. 41-13-10024

Start date: June 21, 2010

Completion date: October 20, 2010

CLIN 0001A – Conduct WIM System Field Calibrations and Validations (LTPP Lane Only) for the following sites:

1. Arizona, SPS-1 (040100)
2. Arizona, SPS-2 (040200)
3. California, SPS-2 (060200)
4. Delaware, SPS-1 (100100)
5. Louisiana, SPS-1 (220100)
6. Maryland, SPS-5 (240500)
7. Ohio, SPS-1 (390100)
8. Ohio, SPS-2 (390200)

Accomplishments

Revised reports for all Task Order 1 Validations were submitted that reflected changes requested by FHWA.

In addition, due to inaccuracies associated with the reporting of final calibration factors, amended reports were submitted for Maryland SPS-5, Arizona SPS-2 and Delaware SPS-1 validations.

**Task Order No. DTFH61-10-D-00019-T-10002**

Requisition/Reference No. 41-13-10044

Start date: September 21, 2010

Completion date: February 1, 2011

CLIN 0001A – Conduct WIM System Field Calibrations and Validations (LTPP Lane Only) for the following sites:

1. Arkansas, SPS-2 (050200)
2. Illinois, SPS-6 (170600)
3. Kansas, SPS-2 (200200)
4. Maine, SPS-5, (230500)
5. New Mexico, SPS-1 (350100)
6. New Mexico, SPS-5 (350500)
7. Tennessee, SPS-6 (470600)
8. Texas, SPS-1 (480100)

CLIN 0001B – Conduct WIM System Field Calibrations and Validations (Additional WIM Lane) for the following sites:

1. Texas, SPS-1 (480100)

Accomplishments

During this quarter, validations were conducted at the following sites:

1. Maine, SPS-5 (230500) – November 30, 2010
2. Illinois, SPS-6 (170600) – December 7, 2010
3. Kansas, SPS-2 (200200) – December 21, 2010

Due to inaccuracies associated with the reporting of final calibration factors, an amended report was submitted for the Illinois SPS-6 validation.

Important Findings

None

Summary of Recommended Corrective Actions

This section of the report contains summary of recommended corrective actions by task order and their resolution status: recommended, pending resolution by FHWA or state highway agencies, or completed.

A summary of the equipment deficiencies noted during the validations visits is provided in Table 1. No other problems with the equipment were noted and no corrective measures were taken in the field.

Table 1. Summary of recommended corrective actions and their status.

<b>Site ID</b>	<b>Recommended Action</b>	<b>Status*</b>
230500	It is recommended that the problems associated with the inconsistent weight measurements of tandem and tridem axle group weights and the failure of the equipment to detect inputs from the #2 WIM sensor be further investigated to determine if the problem is with the controller or with the sensor.	R
170600	None	N
200200	None	N

Status: R = recommended; P = pending resolution by FHWA or state highway agencies; C = completed; N = none.

#### Future Activities

Validation visits to the sites contained in Task Order 10002 have been tentatively scheduled as follows:

1. New Mexico, SPS-1 (350100) – January 4, 2011
2. New Mexico, SPS-5 (350500) – January 6, 2011
3. Texas, SPS-1 (480100) – January 25, 2011
4. Arkansas, SPS-2 (050200) – February 1, 2011
5. Tennessee, SPS-6 (470600) – February 15, 2011

**Task Order No. DTFH61-10-D-00019-T-10003**

Requisition/Reference No. 41-13-10045

Start date: September 22, 2010

Completion date: June 1, 2011

CLIN 0001A – Conduct WIM System Field Calibrations and Validations (LTPP Lane Only) for the following sites:

1. Colorado, SPS-2 (080200)
2. Indiana, SPS-6 (180600)
3. Michigan, SPS-1 (260100)
4. Minnesota, SPS-5 (270500)
5. Pennsylvania, SPS-6 (420600)
6. Virginia, SPS-1 (510100)
7. Washington, SPS-2 (530200)
8. Wisconsin, SPS-1 (550100)

CLIN 0001B – Conduct WIM System Field Calibrations and Validations (Additional WIM Lane) for the following sites:

1. Virginia, SPS-1 (510100)

Accomplishments

During this quarter, validations were conducted at the following sites:

1. Indiana, SPS-6 (180600) – November 3, 2010
2. Pennsylvania, SPS-6 (420600) – November 23, 2010

Important Findings

None

Summary of Recommended Corrective Actions

This section of the report contains summary of recommended corrective actions by task order and their resolution status: recommended, pending resolution by FHWA or state highway agencies, or completed.

A summary of the equipment deficiencies noted during the validations visits is provided in Table 1. No other problems with the equipment were noted and no corrective measures were taken in the field.

Table 1. Summary of recommended corrective actions and their status.

<b>Site ID</b>	<b>Recommended Action</b>	<b>Status*</b>
180600	None	N
420600	None	N

Status: R = recommended; P = pending resolution by FHWA or state highway agencies;  
C = completed; N = none.

Future Activities

Validation visits to the sites contained in Task Order 10003 have been tentatively scheduled as follows:

1. Virginia, SPS-1 (510100) – March 1, 2011
2. Colorado, SPS-2 (080200) – March 15, 2011
3. Washington, SPS-2 (520200) – March 29, 2011
4. Michigan, SPS-1 (260100) – April 12, 2011
5. Minnesota, SPS-5 (270500) – April 26, 2011
6. Wisconsin, SPS-1 (550100) – May 10, 2011

Adjustments to the Project Schedule or Milestones

None

## **MASTER SCHEDULE APPENDIX**

A SharePoint web site has been developed to house Master schedule information. The following is the link to the SharePoint web site:

[https://sharepoint.ara.com/MWD/it LTPP\\_SPSWIM](https://sharepoint.ara.com/MWD/it LTPP_SPSWIM)

Username: spswim

Password: 986TzUbm