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ENTERED APR 13 2004

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID [] *STATE CODE [09] *SHRP SECTION ID [091803]
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SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [07/24/2003]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☒ BOTH
3. * REASON FOR CALIBRATION
☐ REGULARLY SCHEDULED SITE VISIT ☒ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY) _____
4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
☐ BARE ROUND PIEZO CERAMIC ☐ BARE FLAT PIEZO ☐ BENDING PLATES
☐ CHANNELIZED ROUND PIEZO ☐ LOAD CELLS ☒ QUARTZ PIEZO
☐ CHANNELIZED FLAT PIEZO ☐ INDUCTANCE LOOPS ☐ CAPACITANCE PADS
☐ OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☒ STATIC SCALE (Y/N) 2 TEST TRUCKS
2 NUMBER OF TRUCKS COMPARED 2 NUMBER OF TEST TRUCKS USED
20, 19 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|-----------------|------------------------|
| 1 | <u>9</u> | <u>1</u> |
| 2 | <u>9</u> | <u>1</u> |
| 3 | <u>SHEET 16</u> | <u>TRUCKS COMBINED</u> |
- TYPE PER FHWA 13 BIN SYSTEM
SUSPENSION: 1 - AIR; 2 - LEAF SPRING
3 - OTHER (DESCRIBE)
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN --
DYNAMIC AND STATIC GVW -0.24 STANDARD DEVIATION 1.88
DYNAMIC AND STATIC SINGLE AXLES -4.88 STANDARD DEVIATION 4.80
DYNAMIC AND STATIC DOUBLE AXLES 1.04 STANDARD DEVIATION 2.92
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 35-45 35, 40, 45
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 5.000, SENSOR 3 - 5.0000 5.000
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: _____

CLASSIFIER TEST SPECIFICS***

- 12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
☐ VIDEO ☒ MANUAL ☐ PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT ☐ TIME ☒ NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:
*** FHWA CLASS 9 0.0 FHWA CLASS _____
*** FHWA CLASS 8 0.0 FHWA CLASS _____
FHWA CLASS _____
FHWA CLASS _____
*** PERCENT "UNCLASSIFIED" VEHICLES: 0.0

PERSON LEADING CALIBRATION EFFORT: Anne-Marie McDonnell
CONTACT INFORMATION: 860-258-0308 rev. November 9, 1999

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2. * TYPE OF EQUIPMENT CALIBRATED X WIM CLASSIFIER BOTH
3. * REASON FOR CALIBRATION
 REGULARLY SCHEDULED SITE VISIT X RESEARCH
 EQUIPMENT REPLACEMENT TRAINING
 DATA TRIGGERED SYSTEM REVISION NEW EQUIPMENT INSTALLATION
 OTHER (SPECIFY) _____
4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
 BARE ROUND PIEZO CERAMIC BARE FLAT PIEZO BENDING PLATES
 CHANNELIZED ROUND PIEZO LOAD CELLS X QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- Y STATIC SCALE (Y/N) 2 TEST TRUCKS
 1 NUMBER OF TRUCKS COMPARED 2 NUMBER OF TEST TRUCKS USED
 20 PASSES PER TRUCK

TRUCK	TYPE	SUSPENSION
1	<u> 9 </u>	<u> 1 </u>
2	<u> </u>	<u> </u>
3	<u> SHEET 16 </u>	<u> 1 OF 2 </u>

TYPE PER FHWA 13 BIN SYSTEM
 SUSPENSION: 1 - AIR; 2 - LEAF SPRING
 3 - OTHER (DESCRIBE) _____
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN --
 DYNAMIC AND STATIC GVW 0.48 STANDARD DEVIATION 1.41
 DYNAMIC AND STATIC SINGLE AXLES -1.88 STANDARD DEVIATION 3.24
 DYNAMIC AND STATIC DOUBLE AXLES 1.87 STANDARD DEVIATION 1.99
8. 2 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 39 - 43
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 5.000, SENSOR 3 - 5.0000
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
 IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: _____

CLASSIFIER TEST SPECIFICS***

- 12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
 VIDEO X MANUAL PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT TIME X NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:
 *** FHWA CLASS 9 0.0 FHWA CLASS
 *** FHWA CLASS 8 0.0 FHWA CLASS
 FHWA CLASS
 FHWA CLASS
 *** PERCENT "UNCLASSIFIED" VEHICLES: 0.0

PERSON LEADING CALIBRATION EFFORT: <u> Anne-Marie McDonnell </u>
CONTACT INFORMATION: <u> 860-258-0308 </u> rev. November 9, 1999

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3. * REASON FOR CALIBRATION
 REGULARLY SCHEDULED SITE VISIT X RESEARCH
 EQUIPMENT REPLACEMENT TRAINING
 DATA TRIGGERED SYSTEM REVISION NEW EQUIPMENT INSTALLATION
 OTHER (SPECIFY) _____
4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
 BARE ROUND PIEZO CERAMIC BARE FLAT PIEZO BENDING PLATES
 CHANNELIZED ROUND PIEZO LOAD CELLS X QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- Y STATIC SCALE (Y/N) 2 TEST TRUCKS
 1 NUMBER OF TRUCKS COMPARED 2 NUMBER OF TEST TRUCKS USED
 19 PASSES PER TRUCK

TRUCK	TYPE	SUSPENSION
1	<u> </u>	<u> </u>
2	<u> 9 </u>	<u> 1 </u>
3	<u> SHEET 16 </u>	<u> 2 OF 2 </u>

TYPE PER FHWA 13 BIN SYSTEM
 SUSPENSION: 1 - AIR; 2 - LEAF SPRING
 3 - OTHER (DESCRIBE) _____
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN --
 DYNAMIC AND STATIC GVW -1.00 STANDARD DEVIATION 2.04
 DYNAMIC AND STATIC SINGLE AXLES -8.04 STANDARD DEVIATION 4.12
 DYNAMIC AND STATIC DOUBLE AXLES 0.17 STANDARD DEVIATION 2.65
8. 2 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 36 - 41
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 5.000, SENSOR 3 - 5.0000
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
 IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: _____

CLASSIFIER TEST SPECIFICS***

- 12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
 VIDEO X MANUAL PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT TIME X NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:
 *** FHWA CLASS 9 0.0 FHWA CLASS
 *** FHWA CLASS 8 0.0 FHWA CLASS
 FHWA CLASS
 FHWA CLASS
 *** PERCENT "UNCLASSIFIED" VEHICLES: 0.0

PERSON LEADING CALIBRATION EFFORT: <u> Anne-Marie McDonnell </u> CONTACT INFORMATION: <u> 860-258-0308 </u>	rev. November 9, 1999
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SHEET 13 ATTACHMENT LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[]
	*STATE CODE	[09]
	*SHRP SECTION ID	[091803]

Filename	Start Date	Start Time	End Date	End Time	Class Scheme	
	Mm/dd/yyyy	Hh:mm	Mm/dd/yyyy	Hh:mm		
C091803.IRD✓	07/30/2003	00:00	08/14/2003	15:50	A	
W091803.IRD✓	07/30/2003	00:00	08/14/2003	15:50	A	
C091803.JDD✓	08/14/2003	18:35	09/18/2003	15:02	A	
W091803.JDD✓	08/14/2003	18:35	09/18/2003	15:02	A	
C091803.KHD✓	09/18/2003	15:13	12/19/2003	16:12	A	
W091803.KHD✓	09/18/2003	15:13	12/19/2003	16:12	A	
C091803.NID✓	12/19/2003	16:15	12/31/2003	23:26	A	
W091803.NID✓	12/19/2003	16:15	12/31/2003	23:26	A	
C091803.C1E	01/01/2004	01:32	03/14/2004	07:50	A	
W091803.C1E	01/01/2004	01:32	03/14/2004	07:50	A	
C091803.EDE	03/14/2004	09:13	04/13/2004	16:58	A	
W091803.EDE	03/14/2004	09:13	04/13/2004	16:58	A	
C091803.FCE	04/13/2004	17:13	08/20/2004	08:50	A	
W091803.FCE	04/13/2004	17:13	08/20/2004	08:50	A	
C091803.JJE	08/20/2004	10:18	09/18/2004	13:48	A	
W091803.JJE	08/20/2004	10:18	09/18/2004	13:48	A	
C091803.KHE	09/18/2004	14:59	12/31/2004	23:10	A	
W091803.KHE	09/18/2004	14:59	12/31/2004	23:10	A	
C091803.C1F	01/01/2005	00:00	02/05/2005	16:37	A	
W091803.C1F	01/01/2005	00:00	02/05/2005	16:37	A	
C091803.D5F	02/05/2005	16:51	05/15/2005	00:33	A	
W091803.D5F	02/05/2005	16:51	05/15/2005	00:33	A	
C091803.GEF	05/15/2005	02:53	12/31/2005	23:49	A	
W091803.GEF	05/15/2005	02:53	12/31/2005	23:49	A	
C091803.C1G	01/01/2006	00:00	05/23/2006	11:59	A	
W091803.C1G	01/01/2006	00:00	05/23/2006	11:59	A	
C091803.GMG	05/23/2006	12:18	07/18/2006	22:22	A	
W091803.GMG	05/23/2006	12:18	07/18/2006	22:22	A	
C091803.IIG	07/19/2006	01:14	08/03/2006	17:48	A	
W091803.IIG	07/19/2006	01:14	08/03/2006	17:48	A	
C091803.FOH	04/25/2007	12:47	06/25/2007	14:48	A	
W091803.FOH	04/25/2007	12:47	06/25/2007	14:48	A	
C091803.IOH	07/10/2007	08:34	07/25/2007	05:57	A	
W091803.IOH	07/10/2007	08:34	07/25/2007	05:57	A	
C091803.IOH	07/25/2007	07:19	02/13/2008	06:18	A	
W091803.IOH	07/25/2007	07:19	02/13/2008	06:18	A	
C091803.DCI	02/13/2008	13:21	06/09/2008	00:00	A	
W091803.DCI	02/13/2008	13:21	06/09/2008	00:00	A	

PERSON LEADING CALIBRATION EFFORT: <u>Anne-Marie McDonnell</u> CONTACT INFORMATION: <u>860-258-0308</u>	DATE PREPARED 09/18/08
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