

# **APPENDIX A DEFLECTION DATA**

This appendix provides deflection data collected during the field work. Tables A-1 through A-5 show deflection test locations and deflections normalized to 40 kN (9,000 lb) load. The deflection test locations were calculated from post mile marks alongside westbound of the State Route 20, since the Digital Measurement Instrument (DMI) mounted on the falling weight deflectometer was not functioning at the time of field testing.

Table A-1. Deflection Testing Location and Normalized (9-kip) Deflection for Test Section 1

Test Point	Test Section Post Mile	Outer Wheel Path Deflection, mils	PES Post Mile	Outer Wheel Path Deflection, mils
1	39.0000	4.372	38.9811	3.296
2	38.9763	3.497	38.9716	3.060
3	38.9527	2.736	38.9621	3.565
4	38.9290	5.960	38.9527	2.818
5	38.9053	5.680	38.9432	3.666
6	38.8816	6.229	38.9337	5.477
7	38.8580	8.511	38.9242	6.638
8	38.8343	6.296	38.9148	6.405
9	38.8106	5.095	38.9053	5.324
10	End of test		38.8958	6.816
11			38.8864	5.192

**Test Section 1 OWP. Starting at PM 39.0000. Test interval 40 m (125 ft).**

M3

Date-Time: 4-28-2005 11: 6:30

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 1 pattern 1 rwt

Temp: 77.21

Operator: hoffman

Comments: test 1 pm 39.00 pattern 1 rwt

1	1	0.000	1	9.13	4.48	3.08	2.58	2.20	1.86	1.33	0.96	0.69	2.95	3.50	93.8
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1	1	0.000	1	8.81	4.29	2.98	2.50	2.11	1.81	1.28	0.93	0.67	2.82	3.42	93.8
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1	1	0.000	1	8.74	4.19	2.97	2.45	2.08	1.77	1.24	0.91	0.69	2.80	3.38	93.8
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Drop Sequence Completed Time: 11:08

GPS: Quality : DGPS Fix Latitude = 39°14.271247 N Longitude = 123°6.695022 W PDOP = 2.50

Note: test 1-1

2	1	0.000	1	8.74	3.41	2.38	2.02	1.82	1.60	1.09	0.82	0.61	1.98	2.37	97.4
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2	1	0.000	1	8.72	3.38	2.37	2.00	1.80	1.61	1.07	0.79	0.62	1.97	2.39	97.4
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2	1	0.000	1	8.79	3.41	2.36	2.04	1.82	1.60	1.09	0.82	0.61	1.99	2.39	97.4
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Drop Sequence Completed Time: 11:10

GPS: Quality : DGPS Fix Latitude = 39°14.285906 N Longitude = 123°6.713452 W PDOP = 2.60

Note: test 1-2

3	1	0.000	1	9.13	2.81	2.32	2.02	1.72	1.51	1.10	0.80	0.57	2.03	2.28	87.2
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3	1	0.000	1	9.06	2.75	2.24	1.97	1.68	1.45	1.08	0.79	0.54	1.99	2.21	87.2
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3	1	0.000	1	9.01	2.71	2.25	1.96	1.68	1.47	1.08	0.78	0.55	1.97	2.22	87.2
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Drop Sequence Completed Time: 11:11

GPS: Quality : DGPS Fix Latitude = 39°14.300500 N Longitude = 123°6.732042 W PDOP = 2.60

Note: test 1-3

4	1	0.000	1	8.76	5.89	4.51	3.79	3.16	2.58	1.57	1.13	0.78	3.91	4.81	88.6
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4	1	0.000	1	8.79	5.81	4.50	3.80	3.16	2.58	1.58	1.13	0.78	3.92	4.77	88.6
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4	1	0.000	1	8.74	5.71	4.41	3.75	3.12	2.52	1.55	1.10	0.80	3.87	4.72	88.6
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Drop Sequence Completed Time: 11:11

GPS: Quality : DGPS Fix Latitude = 39°14.315251 N Longitude = 123°6.750959 W PDOP = 2.60

Note: test 1-4

5	1	326.000	1	8.69	5.58	4.01	3.27	2.57	2.07	1.19	0.80	0.54	3.50	4.40	87.5
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5	1	326.000	1	8.69	5.47	3.97	3.23	2.57	2.05	1.17	0.78	0.56	3.48	4.32	87.5
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5	1	326.000	1	8.62	5.36	3.92	3.20	2.53	2.00	1.16	0.78	0.51	3.45	4.27	87.5
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Drop Sequence Completed Time: 11:12

GPS: Quality : DGPS Fix Latitude = 39°14.329820 N Longitude = 123°6.769567 W PDOP = 2.60

Note: test 1-5

6	1	650.000	1	8.98	6.29	4.71	3.71	2.87	2.22	1.23	0.79	0.59	3.87	4.77	89.0
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6	1	650.000	1	8.84	6.09	4.60	3.66	2.81	2.20	1.21	0.79	0.59	3.80	4.66	89.0
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6	1	650.000	1	8.81	6.05	4.59	3.64	2.80	2.20	1.21	0.78	0.60	3.79	4.64	89.0
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Drop Sequence Completed Time: 11:13

GPS: Quality : DGPS Fix Latitude = 39°14.344282 N Longitude = 123°6.788082 W PDOP = 2.60

Note: test 1-6

7	1	321.000	1	8.81	8.48	6.64	5.29	4.01	3.07	1.69	1.04	0.68	5.95	7.17	89.4
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7	1	321.000	1	8.86	8.33	6.55	5.22	3.97	3.03	1.70	1.01	0.67	5.85	7.05	89.4
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7	1	321.000	1	8.81	8.23	6.50	5.20	3.98	3.00	1.68	1.03	0.67	5.82	7.00	89.4
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Drop Sequence Completed Time: 11:14

GPS: Quality : DGPS Fix Latitude = 39°14.358916 N Longitude = 123°6.806952 W PDOP = 2.60

Note: test 1-7

8	1	0.000	1	8.28	5.82	4.59	3.67	2.78	2.25	1.33	0.78	0.53	3.69	4.41	85.0
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8	1	0.000	1	8.28	5.75	4.55	3.62	2.74	2.23	1.33	0.76	0.51	3.66	4.38	85.0
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8	1	0.000	1	8.30	5.82	4.59	3.68	2.78	2.26	1.34	0.79	0.50	3.72	4.40	85.0
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Drop Sequence Completed Time: 11:15

GPS: Quality : DGPS Fix Latitude = 39°14.372894 N Longitude = 123°6.825972 W PDOP = 2.60

Note: test 1-8

9	1	340.000	1	9.20	5.26	3.94	3.30	2.74	2.24	1.41	1.00	0.71	3.82	4.42	94.1
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9	1	340.000	1	9.08	5.14	3.89	3.27	2.71	2.24	1.41	0.98	0.71	3.76	4.35	94.1
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9	1	340.000	1	9.03	5.06	3.83	3.25	2.70	2.21	1.38	0.98	0.67	3.71	4.29	94.1
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Drop Sequence Completed Time: 11:16

GPS: Quality : DGPS Fix Latitude = 39°14.386570 N Longitude = 123°6.845750 W PDOP = 2.70

Note: test 1-9

**PES 1 OWP. Starting at PM 38.9811. Test interval 15 m (50 ft).**

M3

Date-Time: 4-28-2005 11:30: 0

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 1 pattern 2 rwt

Temp: 74.46

Operator: hoffman

Comments: test 1 pm 39.00+100' pattern 2 rwt

1 1 883.000 1 6.05 2.14 1.64 1.37 1.13 0.98 0.70 0.50 0.39 1.50 1.77 100.3

1 1 883.000 1 9.23 3.38 2.61 2.20 1.82 1.56 1.08 0.81 0.62 2.35 2.79 100.3

1 1 883.000 1 12.04 4.40 3.40 2.86 2.37 2.04 1.43 1.05 0.77 3.04 3.60 100.3

Drop Sequence Completed Time: 11:31

GPS: Quality : DGPS Fix Latitude = 39°14.282933 N Longitude = 123°6.709758 W PDOP = 2.00

Note: test 1-1

2 1 1010.000 1 5.93 1.98 1.50 1.28 1.10 0.96 0.65 0.47 0.39 1.45 1.68 102.9

2 1 1010.000 1 9.06 3.08 2.35 2.00 1.74 1.49 1.04 0.77 0.60 2.28 2.59 102.9

2 1 1010.000 1 11.77 3.94 3.05 2.60 2.24 1.91 1.35 1.00 0.77 2.89 3.30 102.9

Drop Sequence Completed Time: 11:32

GPS: Quality : DGPS Fix Latitude = 39°14.288763 N Longitude = 123°6.717387 W PDOP = 2.00

Note: test 1-2

3 1 1137.000 1 5.86 2.27 1.77 1.53 1.27 1.04 0.69 0.48 0.35 1.64 1.93 102.2

3 1 1137.000 1 8.86 3.51 2.74 2.38 1.98 1.64 1.08 0.78 0.57 2.51 2.96 102.2

3 1 1137.000 1 11.89 4.64 3.67 3.16 2.66 2.20 1.43 1.06 0.77 3.34 3.90 102.2

Drop Sequence Completed Time: 11:32

GPS: Quality : DGPS Fix Latitude = 39°14.294900 N Longitude = 123°6.724833 W PDOP = 2.00

Note: test 1-3

4 1 1260.000 1 5.91 1.79 1.40 1.24 1.07 0.92 0.66 0.49 0.35 1.27 1.48 91.2

4 1 1260.000 1 8.91 2.79 2.16 1.91 1.64 1.43 1.04 0.78 0.54 1.95 2.31 91.2

4 1 1260.000 1 11.67 3.67 2.88 2.53 2.18 1.94 1.36 1.03 0.75 2.53 2.94 91.2

Drop Sequence Completed Time: 11:33

GPS: Quality : DGPS Fix Latitude = 39°14.300601 N Longitude = 123°6.732058 W PDOP = 2.10

Note: test 1-4

5 1 1385.000 1 5.96 2.43 1.73 1.46 1.19 0.98 0.63 0.44 0.32 1.48 1.80 88.3

5 1 1385.000 1 8.96 3.65 2.58 2.19 1.81 1.49 0.99 0.68 0.50 2.24 2.71 88.3

5 1 1385.000 1 11.89 4.75 3.41 2.87 2.40 1.98 1.32 0.92 0.68 2.94 3.50 88.3

Drop Sequence Completed Time: 11:34

GPS: Quality : DGPS Fix Latitude = 39°14.306403 N Longitude = 123°6.739477 W PDOP = 2.10

Note: test 1-5

6 1 1514.000 1 5.98 3.59 2.81 2.33 1.80 1.36 0.84 0.61 0.47 2.29 2.72 99.2

6 1 1514.000 1 8.94 5.44 4.27 3.54 2.78 2.10 1.32 0.96 0.71 3.50 4.13 99.2

6 1 1514.000 1 11.89 7.06 5.55 4.64 3.64 2.75 1.74 1.24 0.94 4.53 5.34 99.2

Drop Sequence Completed Time: 11:35

GPS: Quality : DGPS Fix Latitude = 39°14.312595 N Longitude = 123°6.747154 W PDOP = 2.10

Note: test 1-6

7 1 1641.000 1 6.05 4.36 3.32 2.73 2.09 1.63 0.96 0.63 0.43 2.83 3.47 90.1

7 1 1641.000 1 8.84 6.52 4.94 4.06 3.14 2.46 1.45 0.96 0.71 4.25 5.17 90.1

7 1 1641.000 1 11.65 8.41 6.42 5.26 4.08 3.22 1.93 1.28 0.99 5.50 6.68 90.1

Drop Sequence Completed Time: 11:35

GPS: Quality : DGPS Fix Latitude = 39°14.318201 N Longitude = 123°6.754523 W PDOP = 2.10

Note: test 1-7

8 1 1773.000 1 5.79 4.15 3.17 2.41 1.76 1.37 0.81 0.53 0.40 2.65 3.25 99.6

8 1 1773.000 1 8.74 6.22 4.73 3.65 2.66 2.09 1.28 0.85 0.61 3.95 4.86 99.6

8 1 1773.000 1 11.55 7.98 6.08 4.68 3.49 2.74 1.68 1.06 2.27 5.10 6.22 99.6

Drop Sequence Completed Time: 11:36

GPS: Quality : DGPS Fix Latitude = 39°14.324122 N Longitude = 123°6.762145 W PDOP = 2.10

Note: test 1-8

9 1 1898.000 1 6.13 3.58 2.70 2.24 1.81 1.43 0.83 0.50 0.34 2.45 2.91 104.7

9 1 1898.000 1 9.18 5.43 4.10 3.40 2.77 2.22 1.29 0.79 0.53 3.67 4.36 104.7

9 1 1898.000 1 11.79 6.88 5.20 4.36 3.57 2.85 1.67 1.00 0.68 4.63 5.50 104.7

Drop Sequence Completed Time: 11:37

GPS: Quality : DGPS Fix Latitude = 39°14.329846 N Longitude = 123°6.769360 W PDOP = 2.10

Note: test 1-9

10 1 2027.000 1 5.93 4.55 3.54 2.89 2.21 1.68 0.97 0.63 0.45 3.00 3.62 103.6

10 1 2027.000 1 8.86 6.71 5.22 4.30 3.32 2.57 1.44 0.94 0.67 4.46 5.26 103.6

10 1 2027.000 1 11.57 8.54 6.69 5.50 4.30 3.31 1.90 1.24 0.87 5.71 6.72 103.6

Drop Sequence Completed Time: 11:38

GPS: Quality : DGPS Fix Latitude = 39°14.335630 N Longitude = 123°6.776844 W PDOP = 2.00

Note: test 1-10

11 1 2158.000 1 6.10 3.48 2.20 1.74 1.33 1.05 0.61 0.44 0.33 2.17 2.78 91.2

11 1 2158.000 1 8.98 5.18 3.30 2.62 2.03 1.63 0.96 0.69 0.52 3.21 4.09 91.2  
11 1 2158.000 1 11.47 6.51 4.21 3.34 2.61 2.08 1.26 0.88 0.66 4.05 5.09 91.2  
Drop Sequence Completed Time: 11:38  
GPS: Quality : DGPS Fix Latitude = 39°14.341310 N Longitude = 123°6.784514 W PDOP = 2.00  
Note: test 1-11

**PES 1 CL. Starting at PM 38.9811. Test interval 15 m (50 ft).**

M3

Date-Time: 4-28-2005 11:40:50  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test 1 pattern 2 center  
Temp: 83.22  
Operator: hoffman  
Comments: test 1 pm 39.00+100' pattern 2 center  
1 1 3456.000 1 6.10 1.96 1.55 1.29 1.08 0.93 0.66 0.50 0.36 1.30 1.52 100.0  
1 1 3456.000 1 9.08 3.04 2.43 2.03 1.67 1.45 1.00 0.76 0.58 2.03 2.33 100.0  
1 1 3456.000 1 11.89 3.96 3.18 2.65 2.21 1.88 1.32 1.00 0.73 2.64 3.04 100.0  
Drop Sequence Completed Time: 11:41  
GPS: Quality : DGPS Fix Latitude = 39°14.282887 N Longitude = 123°6.710191 W PDOP = 2.00  
Note: test 1-1  
2 1 3585.000 1 5.88 2.20 1.53 1.31 1.10 0.93 0.64 0.46 0.37 1.42 1.82 104.7  
2 1 3585.000 1 9.03 3.39 2.38 2.06 1.75 1.50 1.05 0.76 0.60 2.24 2.74 104.7  
2 1 3585.000 1 11.84 4.34 3.04 2.63 2.27 1.91 1.34 0.97 0.75 2.86 3.51 104.7  
Drop Sequence Completed Time: 11:42  
GPS: Quality : DGPS Fix Latitude = 39°14.288585 N Longitude = 123°6.717596 W PDOP = 2.00  
Note: test 1-2  
3 1 3720.000 1 6.01 2.12 1.60 1.40 1.17 0.98 0.67 0.49 0.37 1.46 1.70 104.0  
3 1 3720.000 1 8.81 3.26 2.46 2.15 1.84 1.57 1.05 0.75 0.54 2.24 2.59 104.0  
3 1 3720.000 1 11.65 4.21 3.18 2.79 2.39 2.05 1.36 0.98 0.65 2.88 3.31 104.0  
Drop Sequence Completed Time: 11:42  
GPS: Quality : DGPS Fix Latitude = 39°14.294672 N Longitude = 123°6.725482 W PDOP = 2.00  
Note: test 1-3  
4 1 3843.000 1 5.88 1.85 1.39 1.21 1.04 0.89 0.62 0.45 0.34 1.34 1.55 101.4  
4 1 3843.000 1 8.81 2.85 2.20 1.89 1.61 1.41 0.98 0.73 0.52 2.01 2.33 101.4  
4 1 3843.000 1 11.79 3.75 2.89 2.54 2.17 1.85 1.32 0.98 0.72 2.65 2.99 101.4  
Drop Sequence Completed Time: 11:43  
GPS: Quality : DGPS Fix Latitude = 39°14.300131 N Longitude = 123°6.732810 W PDOP = 2.00  
Note: test 1-4  
5 1 3974.000 1 6.25 1.76 1.35 1.17 1.04 0.91 0.66 0.46 0.34 1.21 1.37 103.3  
5 1 3974.000 1 9.18 2.66 2.07 1.78 1.59 1.40 0.99 0.72 0.52 1.84 2.06 103.3  
5 1 3974.000 1 11.91 3.45 2.65 2.35 2.09 1.82 1.29 0.96 0.67 2.37 2.63 103.3  
Drop Sequence Completed Time: 11:44  
GPS: Quality : DGPS Fix Latitude = 39°14.306111 N Longitude = 123°6.740271 W PDOP = 2.00  
Note: test 1-5  
6 1 4095.000 1 6.01 2.68 2.02 1.64 1.33 1.07 0.73 0.56 0.42 1.60 1.89 104.4  
6 1 4095.000 1 8.98 4.17 3.16 2.58 2.07 1.70 1.13 0.86 0.62 2.46 2.95 104.4  
6 1 4095.000 1 11.84 5.46 4.19 3.41 2.73 2.26 1.51 1.14 0.81 3.22 3.82 104.4  
Drop Sequence Completed Time: 11:45  
GPS: Quality : DGPS Fix Latitude = 39°14.312009 N Longitude = 123°6.747772 W PDOP = 2.00  
Note: test 1-6  
7 1 4226.000 1 6.03 3.46 2.48 2.04 1.68 1.34 0.84 0.59 0.45 2.00 2.54 105.5  
7 1 4226.000 1 8.89 5.26 3.81 3.13 2.60 2.10 1.30 0.94 0.69 3.07 3.90 105.5  
7 1 4226.000 1 11.82 6.85 5.01 4.13 3.45 2.77 1.73 1.25 0.92 3.99 5.01 105.5  
Drop Sequence Completed Time: 11:45  
GPS: Quality : DGPS Fix Latitude = 39°14.318036 N Longitude = 123°6.755227 W PDOP = 2.00  
Note: test 1-7  
8 1 0.000 1 6.08 3.43 2.48 1.97 1.58 1.27 0.80 0.54 0.37 2.18 2.74 104.4  
8 1 0.000 1 8.91 5.14 3.72 2.96 2.38 1.95 1.21 0.84 0.61 3.26 4.04 104.4  
8 1 0.000 1 11.60 6.74 4.90 3.89 3.14 2.59 1.62 1.11 0.81 4.21 5.29 104.4  
Drop Sequence Completed Time: 11:46  
GPS: Quality : DGPS Fix Latitude = 39°14.323917 N Longitude = 123°6.762566 W PDOP = 2.00  
Note: test 1-8  
9 1 0.000 1 5.96 3.63 2.63 2.12 1.64 1.25 0.72 0.49 0.35 2.48 3.02 95.2  
9 1 0.000 1 9.11 5.59 4.05 3.27 2.57 1.99 1.14 0.76 0.54 3.79 4.57 95.2  
9 1 0.000 1 11.67 7.01 5.16 4.15 3.29 2.56 1.48 1.00 0.69 4.75 5.71 95.2  
Drop Sequence Completed Time: 11:47  
GPS: Quality : DGPS Fix Latitude = 39°14.329738 N Longitude = 123°6.769773 W PDOP = 2.00  
Note: test 1-9

10 1 116.000 1 5.88 3.21 2.32 1.89 1.54 1.30 0.85 0.57 0.44 2.10 2.55 105.1

10 1 116.000 1 8.81 5.06 3.73 3.03 2.46 2.07 1.37 0.95 0.63 3.32 3.94 105.1

10 1 116.000 1 11.50 6.49 4.85 3.91 3.21 2.73 1.82 1.24 0.83 4.26 5.04 105.1

Drop Sequence Completed Time: 11:48

GPS: Quality : DGPS Fix Latitude = 39°14.335212 N Longitude = 123°6.777351 W PDOP = 2.00

Note: test 1-10

11 1 221.000 1 6.08 2.41 1.69 1.37 1.14 0.97 0.63 0.44 0.33 1.38 1.70 102.5

11 1 221.000 1 9.06 3.80 2.70 2.20 1.82 1.55 1.00 0.72 0.54 2.21 2.66 102.5

11 1 221.000 1 11.91 4.94 3.49 2.85 2.42 2.03 1.29 0.95 0.68 2.90 3.45 102.5

Drop Sequence Completed Time: 11:48

GPS: Quality : DGPS Fix Latitude = 39°14.341053 N Longitude = 123°6.785148 W PDOP = 2.00

Note: test 1-11

Table A-2. Deflection Testing Location and Normalized (9-kip) Deflection for Test Section 2

Test Point	Test Section Post Mile	Outer Wheel Path Deflection, mils	PES Post Mile	Outer Wheel Path Deflection, mils
1	39.6311	9.213	39.1400	5.545
2	39.6074	9.872	39.1305	7.050
3	39.5837	10.483	39.1211	5.781
4	39.5600	12.371	39.1116	6.406
5	39.5364	13.685	39.1021	6.041
6	39.5127	13.386	39.0927	6.687
7	39.4890	14.630	39.0832	4.619
8	39.4653	19.824	39.0737	4.521
9	39.4417	14.609	39.0642	5.294
10	39.4180	7.994	39.0548	3.845
11	39.3943	6.222	39.0453	4.680
12	39.3706	10.073	End of test	
13	39.3470	7.530		
14	39.3233	6.475		
15	39.2996	4.779		
16	39.2759	5.085		
17	39.2523	3.829		
18	39.2286	4.367		
19	39.2049	6.565		
20	39.1813	2.633		
21	39.1576	5.751		
22	39.1339	5.235		
23	39.1102	7.265		
24	39.0866	6.537		
25	39.0629	4.259		
26	39.0392	4.364		
27	39.0155	3.657		

**Test Section 2 OWP. Starting at PM 39.6311. Test interval 40 m (125 ft).**

M3

Date-Time: 4-28-2005 8: 8:42

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 2 pattern1 rwt

Temp: 59.87

Operator: hoffman

Comments: test 2 pm 39.65 -100' pattern 1 rwt

1 1 -2147483647.000 1 8.23 8.54 7.28 6.18 4.86 3.71 1.92 1.02 0.57 6.58 7.57 63.0

1 1 -2147483647.000 1 8.30 8.48 7.23 6.13 4.87 3.73 1.90 1.01 0.57 6.52 7.54 63.0

1 1 -2147483647.000 1 8.45 8.55 7.30 6.22 4.91 3.77 1.94 1.04 0.59 6.60 7.60 63.0

Drop Sequence Completed Time: 08:13

GPS: Quality : DGPS Fix Latitude = 39°13.941402 N Longitude = 123°6.162870 W PDOP = 2.20

Note: test 1-1

2 1 -2147483647.000 1 8.33 9.31 7.85 6.59 5.11 3.83 1.81 0.87 0.47 7.11 8.28 64.5

2 1 -2147483647.000 1 8.33 9.13 7.72 6.52 5.06 3.80 1.82 0.90 0.51 6.96 8.10 64.5

2 1 -2147483647.000 1 8.42 9.07 7.67 6.45 5.02 3.79 1.81 0.89 0.48 6.89 8.01 64.5

Drop Sequence Completed Time: 08:13

GPS: Quality : DGPS Fix Latitude = 39°13.949247 N Longitude = 123°6.187273 W PDOP = 2.20

Note: test 1-2

3 1 -2147483647.000 1 8.30 9.89 8.22 6.92 5.35 3.98 1.91 0.98 0.58 7.73 8.95 63.7

3 1 -2147483647.000 1 8.33 9.74 8.10 6.84 5.31 3.97 1.94 1.00 0.59 7.58 8.82 63.7

3 1 -2147483647.000 1 8.62 9.78 8.19 6.90 5.36 4.00 1.95 1.00 0.59 7.61 8.83 63.7

Drop Sequence Completed Time: 08:14

GPS: Quality : DGPS Fix Latitude = 39°13.957763 N Longitude = 123°6.211425 W PDOP = 2.20

Note: test 1-3

4 1 -2147483647.000 1 8.40 11.87 9.33 7.45 5.35 3.70 1.55 0.85 0.66 8.41 10.24 61.9

4 1 -2147483647.000 1 8.30 11.39 8.98 7.23 5.19 3.60 1.52 0.84 0.64 8.10 9.86 61.9

4 1 -2147483647.000 1 8.42 11.27 8.97 7.22 5.19 3.63 1.54 0.88 0.63 8.06 9.78 61.9

Drop Sequence Completed Time: 08:15

GPS: Quality : DGPS Fix Latitude = 39°13.966348 N Longitude = 123°6.235338 W PDOP = 2.20

Note: test 1-4

5 1 -2147483647.000 1 8.54 13.25 12.06 9.21 4.45 2.34 1.13 0.91 0.83 9.01 10.96 60.8

5 1 -2147483647.000 1 8.59 12.96 11.83 9.09 4.41 2.30 1.17 0.92 0.84 8.83 10.71 60.8

5 1 -2147483647.000 1 8.59 12.90 11.79 9.10 4.41 2.33 1.19 0.92 0.85 8.79 10.65 60.8

Drop Sequence Completed Time: 08:16

GPS: Quality : DGPS Fix Latitude = 39°13.975135 N Longitude = 123°6.259821 W PDOP = 2.20

Note: test 1-5

6 1 -2147483647.000 1 8.57 13.11 10.57 8.51 6.08 4.17 1.50 0.66 0.44 8.67 10.74 59.7

6 1 -2147483647.000 1 8.67 12.81 10.33 8.36 6.01 4.14 1.48 0.68 0.42 8.52 10.50 59.7

6 1 -2147483647.000 1 8.72 12.69 10.25 8.32 6.00 4.14 1.49 0.67 0.42 8.43 10.42 59.7

Drop Sequence Completed Time: 08:16

GPS: Quality : DGPS Fix Latitude = 39°13.983532 N Longitude = 123°6.283429 W PDOP = 2.20

Note: test 1-6

7 1 -2147483647.000 1 8.57 14.25 12.17 10.07 7.52 5.30 2.12 0.82 0.67 10.01 12.05 63.4

7 1 -2147483647.000 1 8.74 14.10 12.07 10.06 7.51 5.33 2.16 0.85 0.69 9.94 11.91 63.4

7 1 -2147483647.000 1 8.57 13.72 11.81 9.82 7.37 5.22 2.12 0.83 0.66 9.70 11.66 63.4

Drop Sequence Completed Time: 08:17

GPS: Quality : DGPS Fix Latitude = 39°13.992239 N Longitude = 123°6.307024 W PDOP = 2.20

Note: test 1-7

8 1 -2147483647.000 1 8.54 19.03 14.96 11.56 7.90 4.53 2.09 1.22 0.82 13.46 16.93 64.5

8 1 -2147483647.000 1 8.57 18.85 14.89 11.56 7.91 4.59 2.12 1.23 0.84 13.46 16.79 64.5

8 1 -2147483647.000 1 8.64 18.84 14.92 11.60 8.00 4.62 2.12 1.25 0.87 13.48 16.87 64.5

Drop Sequence Completed Time: 08:18

GPS: Quality : DGPS Fix Latitude = 39°14.001143 N Longitude = 123°6.331356 W PDOP = 2.20

Note: test 1-8

9 1 -2147483647.000 1 8.79 14.46 12.34 10.51 8.44 6.64 3.63 2.25 1.42 10.93 12.54 67.7

9 1 -2147483647.000 1 8.59 14.02 12.00 10.29 8.27 6.52 3.56 2.21 1.36 10.67 12.20 67.7

9 1 -2147483647.000 1 8.79 14.00 12.00 10.30 8.29 6.55 3.61 2.23 1.41 10.67 12.23 67.7

Drop Sequence Completed Time: 08:19

GPS: Quality : DGPS Fix Latitude = 39°14.009795 N Longitude = 123°6.355300 W PDOP = 2.20

Note: test 1-9

10 1 -2147483647.000 1 9.03 8.10 6.42 5.19 4.02 3.10 1.72 1.14 0.81 5.36 6.55 66.7

10 1 -2147483647.000 1 8.91 7.91 6.31 5.10 3.97 3.06 1.69 1.12 0.76 5.30 6.46 66.7

10 1 -2147483647.000 1 8.89 7.82 6.25 5.05 3.94 3.03 1.70 1.13 0.77 5.26 6.42 66.7

Drop Sequence Completed Time: 08:19

GPS: Quality : DGPS Fix Latitude = 39°14.018637 N Longitude = 123°6.378854 W PDOP = 2.20

Note: test 1-10

11 1 -2147483647.000 1 8.84 6.15 5.32 4.59 3.73 3.07 1.79 1.15 0.75 4.76 5.49 61.9

11 1 -2147483647.000 1 8.79 6.08 5.28 4.55 3.72 3.01 1.77 1.18 0.74 4.71 5.42 61.9  
 11 1 -2147483647.000 1 8.74 6.00 5.18 4.47 3.66 3.00 1.75 1.15 0.75 4.66 5.31 61.9  
 Drop Sequence Completed Time: 08:20  
 GPS: Quality : DGPS Fix Latitude = 39°14.027608 N Longitude = 123°6.402948 W PDOP = 2.20  
 Note: test 1-11  
 12 1 -2147483647.000 1 8.84 10.13 8.54 7.23 5.70 4.42 2.40 1.47 1.05 7.25 8.51 68.8  
 12 1 -2147483647.000 1 8.91 9.90 8.37 7.09 5.63 4.37 2.40 1.50 1.07 7.15 8.35 68.8  
 12 1 -2147483647.000 1 8.84 9.73 8.26 7.02 5.56 4.33 2.37 1.49 1.03 7.04 8.20 68.8  
 Drop Sequence Completed Time: 08:21  
 GPS: Quality : DGPS Fix Latitude = 39°14.036753 N Longitude = 123°6.426522 W PDOP = 2.20  
 Note: test 1-12  
 13 1 -2147483647.000 1 8.86 7.60 6.53 5.58 4.44 3.48 1.82 1.05 0.71 5.49 6.43 64.8  
 13 1 -2147483647.000 1 8.96 7.46 6.41 5.50 4.40 3.44 1.82 1.05 0.69 5.40 6.33 64.8  
 13 1 -2147483647.000 1 8.94 7.33 6.30 5.42 4.35 3.39 1.80 1.06 0.66 5.33 6.22 64.8  
 Drop Sequence Completed Time: 08:22  
 GPS: Quality : DGPS Fix Latitude = 39°14.046799 N Longitude = 123°6.449647 W PDOP = 2.20  
 Note: test 1-13  
 14 1 -2147483647.000 1 8.72 6.39 5.50 4.78 3.98 3.21 1.91 1.17 0.74 4.79 5.57 65.6  
 14 1 -2147483647.000 1 8.64 6.20 5.37 4.68 3.88 3.14 1.87 1.13 0.73 4.70 5.43 65.6  
 14 1 -2147483647.000 1 8.84 6.26 5.38 4.68 3.91 3.17 1.90 1.15 0.74 4.71 5.45 65.6  
 Drop Sequence Completed Time: 08:22  
 GPS: Quality : DGPS Fix Latitude = 39°14.057999 N Longitude = 123°6.471932 W PDOP = 2.20  
 Note: test 1-14  
 15 1 -2147483647.000 1 9.20 4.97 4.25 3.69 3.04 2.51 1.61 1.09 0.77 3.76 4.29 64.8  
 15 1 -2147483647.000 1 9.01 4.78 4.07 3.52 2.95 2.43 1.56 1.06 0.77 3.62 4.12 64.8  
 15 1 -2147483647.000 1 9.08 4.74 4.05 3.51 2.94 2.44 1.57 1.07 0.75 3.62 4.14 64.8  
 Drop Sequence Completed Time: 08:26  
 GPS: Quality : DGPS Fix Latitude = 39°14.070304 N Longitude = 123°6.493333 W PDOP = 2.50  
 Note: test 1-15  
 16 1 -2147483647.000 1 8.94 5.14 4.44 3.88 3.22 2.61 1.53 0.98 0.65 3.84 4.42 63.4  
 16 1 -2147483647.000 1 8.79 4.96 4.30 3.76 3.13 2.53 1.49 0.95 0.62 3.71 4.33 63.4  
 16 1 -2147483647.000 1 8.89 4.94 4.28 3.75 3.13 2.54 1.49 0.96 0.64 3.73 4.31 63.4  
 Drop Sequence Completed Time: 08:27  
 GPS: Quality : DGPS Fix Latitude = 39°14.083525 N Longitude = 123°6.513127 W PDOP = 2.50  
 Note: test 1-16  
 17 1 -2147483647.000 1 9.13 3.92 3.40 2.93 2.44 1.94 1.16 0.77 0.52 3.04 3.52 60.8  
 17 1 -2147483647.000 1 9.06 3.85 3.37 2.91 2.43 1.96 1.17 0.77 0.51 3.03 3.46 60.8  
 17 1 -2147483647.000 1 8.98 3.79 3.32 2.86 2.39 1.92 1.16 0.74 0.52 3.00 3.43 60.8  
 Drop Sequence Completed Time: 08:28  
 GPS: Quality : DGPS Fix Latitude = 39°14.097870 N Longitude = 123°6.532172 W PDOP = 2.20  
 Note: test 1-17  
 18 1 -2147483647.000 1 8.64 4.25 3.40 2.81 2.28 1.82 1.07 0.69 0.42 2.90 3.56 61.5  
 18 1 -2147483647.000 1 8.72 4.24 3.39 2.82 2.30 1.83 1.07 0.69 0.43 2.92 3.58 61.5  
 18 1 -2147483647.000 1 8.69 4.15 3.34 2.78 2.27 1.81 1.07 0.68 0.40 2.89 3.51 61.5  
 Drop Sequence Completed Time: 08:28  
 GPS: Quality : DGPS Fix Latitude = 39°14.112932 N Longitude = 123°6.550203 W PDOP = 2.20  
 Note: test 1-18  
 19 1 -2147483647.000 1 8.67 6.46 5.62 4.85 3.96 3.15 1.67 0.99 0.62 4.63 5.45 61.9  
 19 1 -2147483647.000 1 8.72 6.33 5.53 4.78 3.93 3.12 1.65 1.00 0.61 4.59 5.34 61.9  
 19 1 -2147483647.000 1 8.67 6.22 5.44 4.71 3.88 3.08 1.63 0.98 0.61 4.53 5.30 61.9  
 Drop Sequence Completed Time: 08:29  
 GPS: Quality : DGPS Fix Latitude = 39°14.128964 N Longitude = 123°6.566397 W PDOP = 2.70  
 Note: test 1-19  
 20 1 -2147483647.000 1 8.86 2.61 2.04 1.75 1.45 1.26 0.85 0.65 0.52 1.79 2.11 61.9  
 20 1 -2147483647.000 1 8.86 2.59 2.04 1.75 1.46 1.27 0.84 0.64 0.55 1.80 2.08 61.9  
 20 1 -2147483647.000 1 8.84 2.57 2.00 1.74 1.46 1.24 0.85 0.65 0.54 1.77 2.08 61.9  
 Drop Sequence Completed Time: 08:30  
 GPS: Quality : DGPS Fix Latitude = 39°14.146240 N Longitude = 123°6.581637 W PDOP = 2.70  
 Note: test 1-20  
 21 1 -2147483647.000 1 8.84 5.72 4.75 3.99 3.13 2.47 1.49 1.02 0.78 4.13 4.87 61.5  
 21 1 -2147483647.000 1 9.08 5.78 4.81 4.04 3.18 2.49 1.52 1.03 0.76 4.18 4.95 61.5  
 21 1 -2147483647.000 1 8.98 5.69 4.70 3.97 3.12 2.48 1.46 1.02 0.78 4.09 4.86 61.5  
 Drop Sequence Completed Time: 08:31  
 GPS: Quality : DGPS Fix Latitude = 39°14.163608 N Longitude = 123°6.595392 W PDOP = 2.70  
 Note: test 1-21  
 22 1 -2147483647.000 1 8.94 5.25 4.45 3.86 3.27 2.76 1.87 1.36 1.03 4.03 4.59 65.9  
 22 1 -2147483647.000 1 8.94 5.20 4.42 3.83 3.27 2.75 1.85 1.34 1.04 4.02 4.56 65.9  
 22 1 -2147483647.000 1 8.94 5.15 4.40 3.84 3.25 2.74 1.86 1.36 1.03 3.99 4.55 65.9  
 Drop Sequence Completed Time: 08:32  
 GPS: Quality : DGPS Fix Latitude = 39°14.188182 N Longitude = 123°6.614830 W PDOP = 2.40  
 Note: test 1-22

23 1 -2147483647.000 1 8.94 7.27 6.38 5.59 4.65 3.89 2.54 1.78 1.28 5.84 6.60 65.9  
23 1 -2147483647.000 1 8.86 7.11 6.23 5.49 4.58 3.85 2.50 1.75 1.26 5.70 6.47 65.9  
23 1 -2147483647.000 1 8.76 7.06 6.19 5.42 4.52 3.83 2.47 1.75 1.26 5.65 6.38 65.9  
Drop Sequence Completed Time: 08:32  
GPS: Quality : DGPS Fix Latitude = 39°14.198917 N Longitude = 123°6.623114 W PDOP = 2.20  
Note: test 1-23  
24 1 -2147483647.000 1 9.03 6.64 5.62 4.84 3.97 3.20 1.84 1.10 0.68 4.90 5.74 69.2  
24 1 -2147483647.000 1 8.74 6.38 5.38 4.64 3.80 3.11 1.75 1.05 0.64 4.71 5.51 69.2  
24 1 -2147483647.000 1 8.91 6.36 5.38 4.65 3.81 3.10 1.76 1.07 0.66 4.70 5.53 69.2  
Drop Sequence Completed Time: 08:33  
GPS: Quality : DGPS Fix Latitude = 39°14.215883 N Longitude = 123°6.637262 W PDOP = 2.20  
Note: test 1-24  
25 1 -2147483647.000 1 9.01 4.31 3.71 3.19 2.55 2.03 1.12 0.66 0.45 3.40 3.90 67.4  
25 1 -2147483647.000 1 8.91 4.23 3.64 3.14 2.52 2.00 1.12 0.66 0.45 3.33 3.77 67.4  
25 1 -2147483647.000 1 8.96 4.18 3.60 3.10 2.50 2.00 1.12 0.64 0.45 3.30 3.72 67.4  
Drop Sequence Completed Time: 08:34  
GPS: Quality : DGPS Fix Latitude = 39°14.232784 N Longitude = 123°6.652432 W PDOP = 2.20  
Note: test 1-25  
26 1 -2147483647.000 1 9.06 4.39 3.72 3.11 2.45 1.91 1.10 0.70 0.47 3.24 3.77 70.7  
26 1 -2147483647.000 1 8.91 4.34 3.66 3.08 2.43 1.89 1.08 0.68 0.46 3.17 3.76 70.7  
26 1 -2147483647.000 1 8.84 4.27 3.63 3.05 2.39 1.87 1.08 0.67 0.46 3.15 3.65 70.7  
Drop Sequence Completed Time: 08:35  
GPS: Quality : DGPS Fix Latitude = 39°14.249058 N Longitude = 123°6.668315 W PDOP = 2.20  
Note: test 1-26  
27 1 -2147483647.000 1 9.01 3.70 3.15 2.72 2.27 1.90 1.24 0.86 0.64 2.83 3.26 67.0  
27 1 -2147483647.000 1 8.86 3.61 3.07 2.66 2.24 1.88 1.22 0.85 0.65 2.80 3.14 67.0  
27 1 -2147483647.000 1 8.86 3.55 3.05 2.66 2.22 1.84 1.22 0.87 0.65 2.76 3.11 67.0  
Drop Sequence Completed Time: 08:36  
GPS: Quality : DGPS Fix Latitude = 39°14.264493 N Longitude = 123°6.685940 W PDOP = 2.10  
Note: test 1-27

**PES 2 OWP. Starting at PM 39.1400. Test interval 15 m (50 ft).**

M3

Date-Time: 4-28-2005 8:50: 5

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 2 pattern2 rwt

Temp: 59.87

Operator: hoffman

Comments: test 2 pm 39.14 pattern 2 rwt

1 1 -2147483647.000 1 5.79 3.57 2.94 2.51 2.03 1.66 1.09 0.84 0.70 2.72 3.19 69.9

1 1 -2147483647.000 1 8.96 5.52 4.56 3.90 3.19 2.62 1.70 1.33 1.06 4.22 4.92 69.9

1 1 -2147483647.000 1 11.89 7.25 6.09 5.18 4.23 3.51 2.27 1.80 1.42 5.54 6.38 69.9

Drop Sequence Completed Time: 08:55

GPS: Quality : DGPS Fix Latitude = 39°14.174980 N Longitude = 123°6.604113 W PDOP = 4.30

Note: test 1-1

2 1 -2147483647.000 1 5.91 4.36 3.34 2.69 2.05 1.60 0.99 0.74 0.59 2.71 3.36 71.8

2 1 -2147483647.000 1 8.54 6.69 5.05 4.06 3.10 2.44 1.47 1.06 0.79 4.10 5.09 71.8

2 1 -2147483647.000 1 11.72 9.09 6.84 5.48 4.25 3.34 1.98 1.46 1.12 5.57 6.91 71.8

Drop Sequence Completed Time: 08:56

GPS: Quality : DGPS Fix Latitude = 39°14.182296 N Longitude = 123°6.609811 W PDOP = 2.70

Note: test 1-2

3 1 -2147483647.000 1 5.91 3.83 3.31 2.88 2.38 2.01 1.29 0.98 0.77 2.97 3.43 72.9

3 1 -2147483647.000 1 9.06 5.82 5.01 4.37 3.69 3.07 1.96 1.47 1.09 4.50 5.16 72.9

3 1 -2147483647.000 1 12.04 7.57 6.58 5.75 4.85 4.10 2.63 2.00 1.49 5.89 6.68 72.9

Drop Sequence Completed Time: 08:57

GPS: Quality : DGPS Fix Latitude = 39°14.189155 N Longitude = 123°6.615295 W PDOP = 2.70

Note: test 1-3

4 1 -2147483647.000 1 5.88 4.06 3.50 3.07 2.62 2.24 1.48 1.13 0.83 3.20 3.73 68.8

4 1 -2147483647.000 1 8.64 6.15 5.28 4.65 3.98 3.40 2.24 1.71 1.28 4.81 5.58 68.8

4 1 -2147483647.000 1 11.60 8.13 6.98 6.19 5.32 4.57 3.06 2.34 1.81 6.34 7.29 68.8

Drop Sequence Completed Time: 08:57

GPS: Quality : DGPS Fix Latitude = 39°14.196023 N Longitude = 123°6.620950 W PDOP = 2.70

Note: test 1-4

5 1 -2147483647.000 1 5.88 3.82 3.31 2.92 2.48 2.10 1.40 0.98 0.70 3.15 3.48 69.6

5 1 -2147483647.000 1 8.79 5.90 5.11 4.53 3.86 3.28 2.21 1.57 1.11 4.89 5.43 69.6

5 1 -2147483647.000 1 11.60 7.77 6.81 6.03 5.17 4.44 3.01 2.16 1.60 6.47 7.13 69.6

Drop Sequence Completed Time: 08:58

GPS: Quality : DGPS Fix Latitude = 39°14.203060 N Longitude = 123°6.626580 W PDOP = 2.70

Note: test 1-5

6 1 -2147483647.000 1 6.08 4.30 3.41 2.86 2.29 1.87 1.17 0.72 0.46 3.09 3.61 69.2

6 1 -2147483647.000 1 8.91 6.62 5.23 4.40 3.56 2.91 1.83 1.19 0.75 4.81 5.68 69.2

6 1 -2147483647.000 1 11.62 8.57 6.81 5.72 4.65 3.87 2.43 1.55 1.05 6.23 7.34 69.2

Drop Sequence Completed Time: 08:59

GPS: Quality : DGPS Fix Latitude = 39°14.210034 N Longitude = 123°6.632214 W PDOP = 2.70

Note: test 1-6

7 1 -2147483647.000 1 5.88 2.94 2.51 2.17 1.79 1.48 0.89 0.57 0.38 2.26 2.59 73.2

7 1 -2147483647.000 1 9.08 4.66 3.97 3.46 2.88 2.38 1.48 0.94 0.61 3.53 4.11 73.2

7 1 -2147483647.000 1 12.08 6.08 5.22 4.54 3.79 3.16 1.97 1.27 0.84 4.64 5.32 73.2

Drop Sequence Completed Time: 08:59

GPS: Quality : DGPS Fix Latitude = 39°14.216736 N Longitude = 123°6.638027 W PDOP = 2.70

Note: test 1-7

8 1 -2147483647.000 1 5.91 2.88 2.36 2.00 1.61 1.28 0.74 0.49 0.33 2.10 2.46 63.7

8 1 -2147483647.000 1 8.72 4.38 3.58 3.06 2.48 1.97 1.19 0.77 0.50 3.26 3.83 63.7

8 1 -2147483647.000 1 11.72 5.88 4.82 4.09 3.35 2.69 1.62 1.05 0.70 4.38 5.10 63.7

Drop Sequence Completed Time: 09:00

GPS: Quality : DGPS Fix Latitude = 39°14.223670 N Longitude = 123°6.644112 W PDOP = 1.90

Note: test 1-8

9 1 -2147483647.000 1 5.88 3.41 2.62 2.17 1.67 1.29 0.67 0.39 0.23 2.24 2.61 70.3

9 1 -2147483647.000 1 8.96 5.27 4.04 3.37 2.63 2.03 1.10 0.64 0.40 3.49 4.13 70.3

9 1 -2147483647.000 1 11.96 6.89 5.30 4.44 3.48 2.72 1.48 0.84 0.52 4.62 5.40 70.3

Drop Sequence Completed Time: 09:01

GPS: Quality : DGPS Fix Latitude = 39°14.230449 N Longitude = 123°6.650179 W PDOP = 2.70

Note: test 1-9

10 1 -2147483647.000 1 6.01 2.59 2.11 1.82 1.47 1.17 0.70 0.43 0.31 1.85 2.20 75.1

10 1 -2147483647.000 1 9.20 3.93 3.24 2.79 2.29 1.84 1.09 0.66 0.47 2.77 3.32 75.1

10 1 -2147483647.000 1 11.91 5.07 4.18 3.60 2.99 2.45 1.46 0.89 0.61 3.57 4.23 75.1

Drop Sequence Completed Time: 09:02

GPS: Quality : DGPS Fix Latitude = 39°14.236793 N Longitude = 123°6.656153 W PDOP = 2.70

Note: test 1-10

11 1 -2147483647.000 1 6.05 3.10 2.56 2.14 1.68 1.31 0.74 0.45 0.31 2.19 2.61 75.4

11 1 -2147483647.000 1 8.98 4.67 3.82 3.24 2.56 2.02 1.12 0.68 0.50 3.32 3.91 75.4  
11 1 -2147483647.000 1 11.89 6.10 5.03 4.22 3.37 2.66 1.54 0.96 0.61 4.29 5.07 75.4  
Drop Sequence Completed Time: 09:02  
GPS: Quality : DGPS Fix Latitude = 39°14.243494 N Longitude = 123°6.662771 W PDOP = 2.70  
Note: test 1-11

**PES 2 CL. Starting at PM 39.1400. Test interval 15 m (50 ft).**

M3

Date-Time: 4-28-2005 9: 5:15  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test 2 pattern2 center  
Temp: 65.71  
Operator: hoffman  
Comments: test 2 pm 39.14 pattern 2 center  
1 1 -2147483647.000 1 6.13 2.21 1.84 1.66 1.49 1.36 1.07 0.88 0.72 1.73 1.95 72.9  
1 1 -2147483647.000 1 8.98 3.37 2.82 2.52 2.26 2.05 1.62 1.31 1.02 2.62 2.92 72.9  
1 1 -2147483647.000 1 11.99 4.48 3.75 3.38 3.06 2.80 2.19 1.78 1.42 3.54 3.86 72.9  
Drop Sequence Completed Time: 09:05  
GPS: Quality : DGPS Fix Latitude = 39°14.174831 N Longitude = 123°6.604981 W PDOP = 2.70  
Note: test 1-1  
2 1 -2147483647.000 1 6.01 2.37 1.89 1.62 1.40 1.22 0.92 0.71 0.59 1.60 1.91 74.3  
2 1 -2147483647.000 1 9.06 3.58 2.83 2.41 2.09 1.82 1.34 1.07 0.86 2.38 2.96 74.3  
2 1 -2147483647.000 1 12.06 4.81 3.80 3.27 2.83 2.50 1.82 1.43 1.14 3.21 3.94 74.3  
Drop Sequence Completed Time: 09:06  
GPS: Quality : DGPS Fix Latitude = 39°14.181592 N Longitude = 123°6.610709 W PDOP = 2.70  
Note: test 1-2  
3 1 -2147483647.000 1 5.81 2.16 1.86 1.68 1.46 1.35 1.04 0.83 0.68 1.75 1.95 75.1  
3 1 -2147483647.000 1 8.74 3.23 2.79 2.50 2.24 2.01 1.56 1.23 0.98 2.64 2.93 75.1  
3 1 -2147483647.000 1 11.69 4.28 3.69 3.29 2.95 2.65 2.06 1.63 1.28 3.48 3.80 75.1  
Drop Sequence Completed Time: 09:07  
GPS: Quality : DGPS Fix Latitude = 39°14.188467 N Longitude = 123°6.615946 W PDOP = 2.70  
Note: test 1-3  
4 1 -2147483647.000 1 6.08 3.19 2.76 2.46 2.15 1.89 1.38 1.04 0.85 2.48 2.82 76.9  
4 1 -2147483647.000 1 8.94 4.74 4.11 3.66 3.22 2.84 2.07 1.54 1.18 3.68 4.14 76.9  
4 1 -2147483647.000 1 11.94 6.28 5.47 4.88 4.29 3.78 2.78 2.09 1.62 4.87 5.49 76.9  
Drop Sequence Completed Time: 09:08  
GPS: Quality : DGPS Fix Latitude = 39°14.195589 N Longitude = 123°6.621611 W PDOP = 2.70  
Note: test 1-4  
5 1 -2147483647.000 1 5.98 2.77 2.41 2.17 1.92 1.70 1.23 0.95 0.72 2.14 2.45 76.5  
5 1 -2147483647.000 1 8.96 4.28 3.73 3.35 2.97 2.61 1.95 1.47 1.12 3.30 3.71 76.5  
5 1 -2147483647.000 1 11.96 5.64 4.94 4.43 3.93 3.48 2.60 1.98 1.48 4.35 4.87 76.5  
Drop Sequence Completed Time: 09:08  
GPS: Quality : DGPS Fix Latitude = 39°14.202500 N Longitude = 123°6.627343 W PDOP = 2.70  
Note: test 1-5  
6 1 -2147483647.000 1 6.01 2.31 1.85 1.61 1.35 1.16 0.81 0.57 0.40 1.65 1.96 76.5  
6 1 -2147483647.000 1 9.03 3.54 2.87 2.44 2.10 1.81 1.25 0.92 0.65 2.54 2.93 76.5  
6 1 -2147483647.000 1 12.01 4.69 3.83 3.29 2.81 2.43 1.73 1.21 0.88 3.40 3.88 76.5  
Drop Sequence Completed Time: 09:09  
GPS: Quality : DGPS Fix Latitude = 39°14.209569 N Longitude = 123°6.633080 W PDOP = 2.70  
Note: test 1-6  
7 1 -2147483647.000 1 6.01 2.24 1.80 1.56 1.28 1.08 0.70 0.48 0.36 1.61 1.85 77.6  
7 1 -2147483647.000 1 9.01 3.46 2.82 2.41 2.00 1.68 1.13 0.80 0.56 2.47 2.87 77.6  
7 1 -2147483647.000 1 12.06 4.59 3.75 3.24 2.67 2.24 1.50 1.06 0.77 3.25 3.75 77.6  
Drop Sequence Completed Time: 09:12  
GPS: Quality : DGPS Fix Latitude = 39°14.216011 N Longitude = 123°6.637669 W PDOP = 2.70  
Note: test 1-7  
8 1 -2147483647.000 1 5.88 2.09 1.64 1.39 1.13 0.95 0.64 0.44 0.33 1.52 1.80 68.1  
8 1 -2147483647.000 1 8.98 3.27 2.60 2.20 1.81 1.50 1.02 0.71 0.51 2.34 2.77 68.1  
8 1 -2147483647.000 1 11.79 4.29 3.42 2.92 2.41 2.00 1.37 0.94 0.66 3.12 3.64 68.1  
Drop Sequence Completed Time: 09:13  
GPS: Quality : DGPS Fix Latitude = 39°14.223586 N Longitude = 123°6.644637 W PDOP = 4.10  
Note: test 1-8  
9 1 -2147483647.000 1 5.93 2.19 1.70 1.43 1.18 0.98 0.60 0.38 0.27 1.57 1.86 77.6  
9 1 -2147483647.000 1 8.84 3.41 2.65 2.27 1.86 1.57 0.97 0.61 0.43 2.45 2.91 77.6  
9 1 -2147483647.000 1 11.79 4.53 3.58 3.03 2.52 2.09 1.30 0.86 0.59 3.22 3.79 77.6  
Drop Sequence Completed Time: 09:14  
GPS: Quality : DGPS Fix Latitude = 39°14.230182 N Longitude = 123°6.650739 W PDOP = 2.70  
Note: test 1-9

```
10 1 -2147483647.000 1 6.01 1.80 1.44 1.23 1.07 0.93 0.65 0.48 0.38 1.28 1.49 77.6
10 1 -2147483647.000 1 8.91 2.74 2.21 1.92 1.65 1.43 1.02 0.73 0.59 1.96 2.27 77.6
10 1 -2147483647.000 1 11.82 3.70 2.99 2.58 2.21 1.91 1.35 0.99 0.74 2.65 2.99 77.6
Drop Sequence Completed Time: 09:14
GPS: Quality : DGPS Fix Latitude = 39°14.236894 N Longitude = 123°6.657034 W PDOP = 2.70
Note: test 1-10
11 1 -2147483647.000 1 5.91 2.62 1.96 1.62 1.32 1.09 0.74 0.52 0.39 1.58 1.96 78.0
11 1 -2147483647.000 1 9.01 4.04 3.03 2.49 2.06 1.69 1.14 0.81 0.58 2.45 2.99 78.0
11 1 -2147483647.000 1 11.89 5.25 3.98 3.29 2.71 2.26 1.52 1.05 0.79 3.16 3.87 78.0
Drop Sequence Completed Time: 09:15
GPS: Quality : DGPS Fix Latitude = 39°14.243434 N Longitude = 123°6.663543 W PDOP = 2.80
Note: test 1-11
```

Table A-3. Deflection Testing Location and Normalized (9-kip) Deflection for Test Section 3

Test Point	Test Section Post Mile	Outer Wheel Path Deflection, mils	PES Post Mile	Outer Wheel Path Deflection, mils
1	40.0000	7.408	40.0056	7.026
2	39.9763	6.001	39.9961	7.265
3	39.9527	9.333	39.9866	6.899
4	39.9290	14.170	39.9772	9.160
5	39.9053	8.700	39.9677	7.684
6	39.8816	8.831	39.9582	11.801
7	39.8580	8.847	39.9488	10.560
8	39.8343	10.618	39.9393	13.621
9	39.8106	10.371	39.9298	11.938
10	39.7869	13.991	39.9203	9.648
11	39.7633	8.093	39.9109	12.678
12	39.7396	8.299	End of test	
13	39.7159	7.497		
14	39.6922	7.056		

**Test Section 3 OWP. Starting at PM 40.0000. Test interval 40 m (125 ft).**

M3

Date-Time: 4-27-2005 13:16:15

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 3 pattern1

Temp: 78.58

Operator: HOFFMAN

Comments: test 3 pm40.00

1 1 -2147483647.000 1 9.30 7.74 5.97 5.00 4.04 3.23 1.85 1.19 0.77 5.48 6.53 98.5

1 1 -2147483647.000 1 9.28 7.60 5.92 4.96 4.03 3.20 1.84 1.19 0.78 5.40 6.45 98.5

1 1 -2147483647.000 1 9.23 7.55 5.87 4.91 3.97 3.19 1.81 1.16 0.78 5.34 6.33 98.5

Drop Sequence Completed Time: 13:17

GPS: Quality : DGPS Fix Latitude = 39°13.839667 N Longitude = 123°5.776100 W PDOP = 1.80

Note: test 1-1

2 1 -2147483647.000 1 9.25 6.26 4.51 3.84 3.11 2.49 1.55 1.00 0.65 3.96 4.84 101.4

2 1 -2147483647.000 1 9.20 6.09 4.41 3.75 3.05 2.46 1.52 1.01 0.64 3.87 4.77 101.4

2 1 -2147483647.000 1 9.16 6.06 4.41 3.74 3.02 2.45 1.52 0.97 0.63 3.86 4.76 101.4

Drop Sequence Completed Time: 13:19

GPS: Quality : DGPS Fix Latitude = 39°13.848635 N Longitude = 123°5.799710 W PDOP = 1.80

Note: test 1-2

3 1 -2147483647.000 1 9.01 9.56 8.13 6.77 5.32 4.18 2.26 1.31 0.74 6.80 8.18 91.2

3 1 -2147483647.000 1 9.16 9.42 8.04 6.70 5.27 4.16 2.25 1.33 0.74 6.72 8.08 91.2

3 1 -2147483647.000 1 9.16 9.36 8.03 6.67 5.25 4.16 2.25 1.31 0.78 6.74 8.07 91.2

Drop Sequence Completed Time: 13:20

GPS: Quality : DGPS Fix Latitude = 39°13.856908 N Longitude = 123°5.824133 W PDOP = 1.90

Note: test 1-3

4 1 -2147483647.000 1 8.96 14.45 12.53 10.55 7.62 5.16 2.33 1.35 0.90 9.89 12.11 91.9

4 1 -2147483647.000 1 8.94 13.99 12.22 10.37 7.52 5.06 2.29 1.34 0.89 9.71 11.83 91.9

4 1 -2147483647.000 1 8.96 13.85 12.15 10.31 7.51 5.04 2.29 1.34 0.91 9.66 11.79 91.9

Drop Sequence Completed Time: 13:21

GPS: Quality : DGPS Fix Latitude = 39°13.863611 N Longitude = 123°5.848642 W PDOP = 1.90

Note: test 1-4

5 1 -2147483647.000 1 9.08 8.86 7.65 6.54 5.20 4.05 2.16 1.26 0.74 6.44 7.52 93.8

5 1 -2147483647.000 1 9.08 8.83 7.66 6.59 5.23 4.06 2.14 1.26 0.78 6.45 7.50 93.8

5 1 -2147483647.000 1 9.18 8.74 7.60 6.53 5.18 4.02 2.13 1.27 0.77 6.41 7.41 93.8

Drop Sequence Completed Time: 13:22

GPS: Quality : DGPS Fix Latitude = 39°13.869733 N Longitude = 123°5.874140 W PDOP = 1.90

Note: test 1-5

6 1 -2147483647.000 1 9.01 8.97 7.41 6.13 4.76 3.63 1.85 1.16 0.84 6.31 7.49 93.4

6 1 -2147483647.000 1 9.03 8.82 7.35 6.09 4.74 3.60 1.85 1.19 0.81 6.26 7.39 93.4

6 1 -2147483647.000 1 9.06 8.80 7.37 6.13 4.78 3.62 1.86 1.21 0.82 6.30 7.42 93.4

Drop Sequence Completed Time: 13:23

GPS: Quality : DGPS Fix Latitude = 39°13.875937 N Longitude = 123°5.899408 W PDOP = 1.90

Note: test 1-6

7 1 -2147483647.000 1 8.81 8.82 7.16 5.50 4.11 3.17 1.72 1.05 0.79 5.97 7.71 89.0

7 1 -2147483647.000 1 8.79 8.60 7.02 5.41 4.07 3.13 1.71 1.02 0.77 5.85 7.52 89.0

7 1 -2147483647.000 1 8.79 8.52 6.98 5.40 4.04 3.10 1.68 1.03 0.76 5.85 7.43 89.0

Drop Sequence Completed Time: 13:25

GPS: Quality : DGPS Fix Latitude = 39°13.881784 N Longitude = 123°5.924777 W PDOP = 1.90

Note: test 1-7

8 1 -2147483647.000 1 8.67 10.41 7.68 6.34 4.97 3.93 2.12 1.41 0.97 6.27 7.93 101.1

8 1 -2147483647.000 1 8.67 10.21 7.58 6.28 4.91 3.89 2.10 1.41 0.94 6.18 7.83 101.1

8 1 -2147483647.000 1 8.69 10.09 7.53 6.24 4.89 3.88 2.10 1.40 0.93 6.14 7.80 101.1

Drop Sequence Completed Time: 13:26

GPS: Quality : DGPS Fix Latitude = 39°13.887798 N Longitude = 123°5.950063 W PDOP = 1.90

Note: test 1-8

9 1 -2147483647.000 1 8.59 10.06 8.33 6.43 4.66 3.21 1.66 1.02 0.79 5.83 7.44 91.2

9 1 -2147483647.000 1 8.64 9.92 8.22 6.36 4.60 3.19 1.64 1.01 0.81 5.78 7.38 91.2

9 1 -2147483647.000 1 8.64 9.83 8.16 6.32 4.56 3.15 1.66 1.01 0.77 5.75 7.36 91.2

Drop Sequence Completed Time: 13:26

GPS: Quality : DGPS Fix Latitude = 39°13.893931 N Longitude = 123°5.975683 W PDOP = 1.90

Note: test 1-9

10 1 -2147483647.000 1 8.47 13.44 9.51 6.82 4.60 2.86 1.14 0.62 0.51 7.14 12.56 95.2

10 1 -2147483647.000 1 8.52 13.15 9.35 6.71 4.52 2.83 1.16 0.66 0.50 7.02 13.59 95.2

10 1 -2147483647.000 1 8.40 12.88 9.17 6.58 4.44 2.79 1.13 0.63 0.51 6.87 13.86 95.2

Drop Sequence Completed Time: 13:27

GPS: Quality : DGPS Fix Latitude = 39°13.899823 N Longitude = 123°6.000484 W PDOP = 1.90

Note: test 1-10

11 1 -2147483647.000 1 8.91 8.18 6.25 5.00 3.80 2.90 1.57 0.95 0.58 5.07 6.19 102.5  
11 1 -2147483647.000 1 8.91 7.96 6.16 4.93 3.75 2.86 1.56 0.93 0.59 5.00 6.14 102.5  
11 1 -2147483647.000 1 8.96 7.94 6.15 4.91 3.75 2.86 1.59 0.94 0.60 5.03 6.11 102.5  
Drop Sequence Completed Time: 13:28  
GPS: Quality : DGPS Fix Latitude = 39°13.905774 N Longitude = 123°6.025920 W PDOP = 2.70  
Note: test 1-11  
12 1 -2147483647.000 1 8.84 8.34 6.97 5.78 4.46 3.43 1.83 1.05 0.63 5.79 6.96 102.9  
12 1 -2147483647.000 1 8.98 8.20 6.88 5.74 4.44 3.38 1.82 1.06 0.65 5.75 6.87 102.9  
12 1 -2147483647.000 1 9.03 8.22 6.91 5.74 4.43 3.40 1.81 1.05 0.67 5.76 6.87 102.9  
Drop Sequence Completed Time: 13:29  
GPS: Quality : DGPS Fix Latitude = 39°13.911825 N Longitude = 123°6.051117 W PDOP = 2.70  
Note: test 1-12  
13 1 -2147483647.000 1 8.72 7.38 5.84 4.85 3.81 2.87 1.48 0.91 0.66 5.25 6.14 96.7  
13 1 -2147483647.000 1 8.84 7.32 5.81 4.88 3.80 2.87 1.48 0.91 0.67 5.23 6.10 96.7  
13 1 -2147483647.000 1 8.79 7.25 5.82 4.87 3.81 2.89 1.48 0.93 0.67 5.21 6.05 96.7  
Drop Sequence Completed Time: 13:30  
GPS: Quality : DGPS Fix Latitude = 39°13.917945 N Longitude = 123°6.076460 W PDOP = 2.70  
Note: test 1-13  
14 1 -2147483647.000 1 8.91 7.11 5.54 4.41 3.36 2.61 1.53 0.93 0.59 4.86 5.93 92.3  
14 1 -2147483647.000 1 8.94 6.94 5.42 4.32 3.31 2.58 1.51 0.93 0.61 4.79 5.80 92.3  
14 1 -2147483647.000 1 8.86 6.89 5.40 4.32 3.32 2.57 1.51 0.93 0.60 4.76 5.78 92.3  
Drop Sequence Completed Time: 13:30  
GPS: Quality : DGPS Fix Latitude = 39°13.924237 N Longitude = 123°6.101849 W PDOP = 2.00  
Note: test 1-14

**PES 3 OWP. Starting at PM 40.0056. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 13:47:50  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test 3 pattern2 rwt  
Temp: 82.70  
Operator: hoffman  
Comments: test 3 pm40.00 pattern 2  
1 1 -2147483647.000 1 6.10 4.71 3.33 2.82 2.25 1.76 1.03 0.66 0.45 3.04 3.64 98.5  
1 1 -2147483647.000 1 8.98 7.01 4.84 4.12 3.36 2.64 1.57 0.99 0.64 4.39 5.24 98.5  
1 1 -2147483647.000 1 11.94 9.01 6.16 5.25 4.33 3.42 2.04 1.30 0.81 5.58 6.64 98.5  
Drop Sequence Completed Time: 13:51  
GPS: Quality : DGPS Fix Latitude = 39°13.837511 N Longitude = 123°5.771052 W PDOP = 2.20  
Note: test 1-1  
2 1 -2147483647.000 1 5.74 4.64 3.71 3.09 2.41 1.92 1.14 0.76 0.51 3.01 3.57 103.3  
2 1 -2147483647.000 1 9.08 7.33 5.77 4.76 3.77 3.02 1.80 1.20 0.78 4.70 5.57 103.3  
2 1 -2147483647.000 1 11.99 9.31 7.24 5.97 4.73 3.83 2.30 1.51 0.99 5.91 7.01 103.3  
Drop Sequence Completed Time: 13:52  
GPS: Quality : DGPS Fix Latitude = 39°13.841176 N Longitude = 123°5.780368 W PDOP = 2.20  
Note: test 1-2  
3 1 -2147483647.000 1 6.01 4.72 3.41 2.74 2.11 1.61 0.93 0.57 0.38 2.65 3.37 93.8  
3 1 -2147483647.000 1 9.08 6.96 5.04 4.01 3.12 2.43 1.40 0.85 0.55 3.86 4.86 93.8  
3 1 -2147483647.000 1 12.28 9.01 6.51 5.17 4.05 3.22 1.88 1.20 0.80 4.94 6.24 93.8  
Drop Sequence Completed Time: 13:53  
GPS: Quality : DGPS Fix Latitude = 39°13.845009 N Longitude = 123°5.789685 W PDOP = 2.20  
Note: test 1-3  
4 1 -2147483647.000 1 6.05 6.50 4.76 3.77 2.81 2.12 1.08 0.64 0.40 3.83 4.83 102.5  
4 1 -2147483647.000 1 9.01 9.17 6.75 5.31 4.00 2.99 1.56 0.91 0.64 5.40 6.77 102.5  
4 1 -2147483647.000 1 12.11 11.68 8.62 6.78 5.13 3.87 2.03 1.20 0.83 6.85 8.57 102.5  
Drop Sequence Completed Time: 13:54  
GPS: Quality : DGPS Fix Latitude = 39°13.848656 N Longitude = 123°5.799264 W PDOP = 2.20  
Note: test 1-4  
5 1 -2147483647.000 1 6.01 5.33 4.09 3.32 2.58 2.04 1.14 0.65 0.42 3.60 4.30 103.6  
5 1 -2147483647.000 1 8.96 7.65 5.88 4.75 3.76 2.98 1.67 1.00 0.63 5.16 6.14 103.6  
5 1 -2147483647.000 1 11.99 9.72 7.48 6.06 4.79 3.82 2.19 1.32 0.85 6.57 7.76 103.6  
Drop Sequence Completed Time: 13:54  
GPS: Quality : DGPS Fix Latitude = 39°13.851990 N Longitude = 123°5.808649 W PDOP = 2.20  
Note: test 1-5  
6 1 -2147483647.000 1 5.93 8.09 6.85 5.53 4.13 3.04 1.39 0.76 0.46 5.70 6.92 102.2  
6 1 -2147483647.000 1 9.03 11.84 10.10 8.16 6.17 4.59 2.15 1.18 0.75 8.33 9.96 102.2  
6 1 -2147483647.000 1 11.91 14.69 12.61 10.27 7.85 5.84 2.79 1.50 0.98 10.37 12.33 102.2  
Drop Sequence Completed Time: 13:57  
GPS: Quality : DGPS Fix Latitude = 39°13.855243 N Longitude = 123°5.818385 W PDOP = 2.20  
Note: test 1-6  
7 1 -2147483647.000 1 6.05 7.17 6.04 4.99 3.81 2.91 1.60 0.95 0.61 5.13 6.14 89.7  
7 1 -2147483647.000 1 8.94 10.49 8.88 7.36 5.68 4.38 2.42 1.44 0.93 7.42 8.86 89.7  
7 1 -2147483647.000 1 11.96 13.61 11.56 9.56 7.42 5.76 3.20 1.94 1.23 9.57 11.34 89.7  
Drop Sequence Completed Time: 13:58  
GPS: Quality : DGPS Fix Latitude = 39°13.858028 N Longitude = 123°5.828096 W PDOP = 2.20  
Note: test 1-7  
8 1 -2147483647.000 1 6.01 9.33 7.81 6.12 4.48 3.19 1.49 0.91 0.59 6.77 8.12 94.8  
8 1 -2147483647.000 1 8.94 13.53 11.40 8.98 6.74 4.83 2.29 1.40 0.85 9.76 11.64 94.8  
8 1 -2147483647.000 1 11.60 16.77 14.22 11.25 8.51 6.14 2.95 1.76 1.10 12.12 14.28 94.8  
Drop Sequence Completed Time: 13:59  
GPS: Quality : DGPS Fix Latitude = 39°13.860745 N Longitude = 123°5.838150 W PDOP = 2.20  
Note: test 1-8  
9 1 -2147483647.000 1 6.05 8.46 6.82 5.50 4.12 3.11 1.64 0.92 0.53 6.27 7.50 92.3  
9 1 -2147483647.000 1 9.16 12.15 9.79 7.93 6.02 4.59 2.46 1.36 0.84 9.09 10.80 92.3  
9 1 -2147483647.000 1 12.33 15.43 12.50 10.16 7.78 5.97 3.22 1.82 1.09 11.64 13.68 92.3  
Drop Sequence Completed Time: 14:00  
GPS: Quality : DGPS Fix Latitude = 39°13.863348 N Longitude = 123°5.847998 W PDOP = 2.20  
Note: test 1-9  
10 1 -2147483647.000 1 6.13 6.84 5.93 4.96 3.90 3.07 1.69 0.96 0.59 5.13 5.97 94.1  
10 1 -2147483647.000 1 9.30 9.97 8.62 7.20 5.76 4.55 2.55 1.50 0.92 7.47 8.61 94.1  
10 1 -2147483647.000 1 12.45 12.69 10.98 9.22 7.43 5.91 3.34 1.98 1.21 9.49 10.88 94.1  
Drop Sequence Completed Time: 14:00  
GPS: Quality : DGPS Fix Latitude = 39°13.865900 N Longitude = 123°5.858357 W PDOP = 2.20  
Note: test 1-10  
11 1 -2147483647.000 1 6.13 8.82 7.65 6.47 5.10 3.80 1.87 1.04 0.61 6.38 7.59 99.6

11 1 -2147483647.000 1 9.03 12.72 11.05 9.35 7.46 5.66 2.80 1.57 0.92 9.28 10.98 99.6  
11 1 -2147483647.000 1 12.21 16.31 14.23 12.07 9.72 7.43 3.75 2.14 1.22 11.95 14.02 99.6  
Drop Sequence Completed Time: 14:01  
GPS: Quality : DGPS Fix Latitude = 39°13.868355 N Longitude = 123°5.868323 W PDOP = 2.20  
Note: test 1-11

**PES 3 CL. Starting at PM 40.0056. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 14: 3:44  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test 3 pattern2 center  
Temp: 74.12  
Operator: hoffman  
Comments: test 3 pm40.00 pattern 2 center  
1 1 -2147483647.000 1 6.15 3.71 3.07 2.59 2.07 1.67 1.01 0.65 0.43 2.72 3.17 96.3  
1 1 -2147483647.000 1 9.38 5.67 4.64 3.91 3.15 2.56 1.55 1.03 0.70 4.13 4.76 96.3  
1 1 -2147483647.000 1 12.26 7.19 5.84 4.93 4.00 3.24 2.01 1.32 0.90 5.19 6.02 96.3  
Drop Sequence Completed Time: 14:04  
GPS: Quality : DGPS Fix Latitude = 39°13.837355 N Longitude = 123°5.771287 W PDOP = 2.20  
Note: test 1-1  
2 1 -2147483647.000 1 6.13 3.90 3.03 2.49 1.98 1.61 0.96 0.63 0.44 2.66 3.11 99.6  
2 1 -2147483647.000 1 9.06 5.77 4.47 3.66 2.93 2.39 1.48 0.97 0.66 3.87 4.53 99.6  
2 1 -2147483647.000 1 12.18 7.48 5.80 4.75 3.82 3.14 1.94 1.28 0.87 5.03 5.87 99.6  
Drop Sequence Completed Time: 14:05  
GPS: Quality : DGPS Fix Latitude = 39°13.841017 N Longitude = 123°5.780387 W PDOP = 2.20  
Note: test 1-2  
3 1 -2147483647.000 1 6.01 3.15 2.57 2.22 1.82 1.47 0.90 0.58 0.37 2.23 2.61 100.3  
3 1 -2147483647.000 1 9.01 4.67 3.81 3.28 2.70 2.20 1.33 0.88 0.61 3.36 3.87 100.3  
3 1 -2147483647.000 1 11.99 6.08 4.88 4.22 3.51 2.87 1.74 1.15 0.79 4.33 4.98 100.3  
Drop Sequence Completed Time: 14:05  
GPS: Quality : DGPS Fix Latitude = 39°13.844623 N Longitude = 123°5.789648 W PDOP = 2.20  
Note: test 1-3  
4 1 -2147483647.000 1 5.93 3.11 2.52 2.20 1.87 1.57 0.96 0.61 0.43 2.21 2.56 101.1  
4 1 -2147483647.000 1 9.08 4.66 3.82 3.32 2.85 2.39 1.49 0.98 0.64 3.34 3.84 101.1  
4 1 -2147483647.000 1 12.16 6.07 4.96 4.32 3.73 3.11 1.94 1.29 0.88 4.33 4.94 101.1  
Drop Sequence Completed Time: 14:06  
GPS: Quality : DGPS Fix Latitude = 39°13.848137 N Longitude = 123°5.799230 W PDOP = 2.20  
Note: test 1-4  
5 1 -2147483647.000 1 6.05 3.03 2.53 2.21 1.85 1.55 1.00 0.64 0.44 2.26 2.56 102.5  
5 1 -2147483647.000 1 9.20 4.54 3.79 3.29 2.79 2.33 1.49 0.96 0.64 3.37 3.82 102.5  
5 1 -2147483647.000 1 12.16 5.96 4.97 4.31 3.62 3.05 1.98 1.28 0.87 4.37 4.94 102.5  
Drop Sequence Completed Time: 14:07  
GPS: Quality : DGPS Fix Latitude = 39°13.851424 N Longitude = 123°5.808757 W PDOP = 2.20  
Note: test 1-5  
6 1 -2147483647.000 1 6.05 4.65 4.03 3.46 2.77 2.22 1.30 0.80 0.51 3.50 4.05 102.9  
6 1 -2147483647.000 1 9.01 6.92 5.96 5.08 4.11 3.30 1.98 1.25 0.77 5.25 6.00 102.9  
6 1 -2147483647.000 1 11.74 8.78 7.59 6.48 5.27 4.24 2.54 1.56 0.97 6.58 7.58 102.9  
Drop Sequence Completed Time: 14:08  
GPS: Quality : DGPS Fix Latitude = 39°13.857401 N Longitude = 123°5.828411 W PDOP = 2.20  
Note: test 1-6  
7 1 -2147483647.000 1 6.03 5.74 4.59 3.86 3.15 2.53 1.50 0.89 0.55 4.22 4.85 102.9  
7 1 -2147483647.000 1 8.86 8.41 6.71 5.65 4.60 3.75 2.23 1.34 0.83 6.20 7.14 102.9  
7 1 -2147483647.000 1 11.69 10.79 8.64 7.25 5.98 4.82 2.93 1.74 1.12 8.01 9.14 102.9  
Drop Sequence Completed Time: 14:09  
GPS: Quality : DGPS Fix Latitude = 39°13.862801 N Longitude = 123°5.848225 W PDOP = 2.20  
Note: test 1-7  
8 1 -2147483647.000 1 6.03 4.88 4.28 3.64 2.91 2.34 1.36 0.81 0.51 3.65 4.30 101.8  
8 1 -2147483647.000 1 8.94 7.22 6.32 5.36 4.32 3.49 2.10 1.27 0.78 5.41 6.29 101.8  
8 1 -2147483647.000 1 12.13 9.50 8.32 7.10 5.74 4.61 2.82 1.73 1.01 7.12 8.17 101.8  
Drop Sequence Completed Time: 14:09  
GPS: Quality : DGPS Fix Latitude = 39°13.865469 N Longitude = 123°5.858044 W PDOP = 2.20  
Note: test 1-8  
9 1 -2147483647.000 1 5.93 5.91 5.03 4.24 3.36 2.61 1.44 0.84 0.50 4.47 5.20 101.1  
9 1 -2147483647.000 1 8.98 8.90 7.55 6.39 5.11 3.98 2.28 1.35 0.82 6.76 7.74 101.1  
9 1 -2147483647.000 1 11.87 11.38 9.68 8.21 6.59 5.18 2.96 1.77 1.04 8.66 9.85 101.1  
Drop Sequence Completed Time: 14:10  
GPS: Quality : DGPS Fix Latitude = 39°13.867554 N Longitude = 123°5.866029 W PDOP = 2.20  
Note: test 1-9

```
10 1 -2147483647.000 1 6.08 7.94 7.01 5.95 4.63 3.52 1.86 1.04 0.60 5.86 6.81 95.6
10 1 -2147483647.000 1 8.86 11.46 10.12 8.60 6.78 5.19 2.78 1.55 0.87 8.50 9.84 95.6
10 1 -2147483647.000 1 11.87 14.62 12.97 11.02 8.77 6.79 3.71 2.09 1.21 10.87 12.54 95.6
Drop Sequence Completed Time: 14:11
GPS: Quality : DGPS Fix Latitude = 39°13.868069 N Longitude = 123°5.868202 W PDOP = 2.20
Note: test 1-10
```

Table A-4. Deflection Testing Location and Normalized (9-kip) Deflection for Test Section 4

Test Point	Test Section Post Mile	Outer Wheel Path Deflection, mils	PES Post Mile	Outer Wheel Path Deflection, mils
1	40.5485	9.694	40.4345	6.721
2	40.5248	5.458	40.4250	7.402
3	40.5012	4.796	40.4156	4.764
4	40.4775	5.943	40.4061	5.640
5	40.4538	8.939	40.3966	4.256
6	40.4302	6.684	40.3872	5.670
7	40.4065	4.035	40.3777	4.429
8	40.3828	4.729	40.3682	5.183
9	40.3591	4.618	40.3588	6.230
10	40.3355	7.190	40.3493	6.185
11	40.3118	5.697	40.3398	6.275
12	40.2881	7.334	End of test	
13	40.2644	11.590		

**Test Section 4 OWP. Starting at PM 40.5485. Test interval 40 m (125 ft).**

M3

Date-Time: 4-27-2005 10:19:20  
 Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
 Weight/spring: 3  
 Location: test sec 4 40.85 wb pattern 1  
 Temp: 62.79  
 Operator: HOFFMAN  
 Comments: test sec pattern 1 every 125 ft right wt  
 1 1 -2147483647.000 1 9.13 10.14 7.94 6.53 5.09 3.94 2.03 1.09 0.60 7.66 9.18 79.5  
 1 1 -2147483647.000 1 9.03 9.63 7.55 6.26 4.88 3.79 1.97 1.05 0.59 7.28 8.73 79.5  
 1 1 -2147483647.000 1 8.96 9.44 7.44 6.15 4.80 3.71 1.92 1.01 0.59 7.16 8.52 79.5  
 Drop Sequence Completed Time: 10:36  
 GPS: Quality : DGPS Fix Latitude = 39°13.506977 N Longitude = 123°5.329296 W PDOP = 1.70  
 Note: test5right1-1  
 2 1 -2147483647.000 1 9.13 5.58 4.44 3.58 2.77 2.16 1.19 0.72 0.44 3.83 4.49 80.2  
 2 1 -2147483647.000 1 8.94 5.44 4.34 3.49 2.72 2.12 1.18 0.71 0.43 3.72 4.42 80.2  
 2 1 -2147483647.000 1 8.89 5.33 4.28 3.46 2.68 2.08 1.17 0.71 0.43 3.68 4.34 80.2  
 Drop Sequence Completed Time: 10:37  
 GPS: Quality : DGPS Fix Latitude = 39°13.522012 N Longitude = 123°5.347795 W PDOP = 1.70  
 Note: test5right1-2  
 3 1 -2147483647.000 1 9.01 4.86 3.90 3.20 2.51 1.92 1.04 0.63 0.36 3.38 4.06 80.6  
 3 1 -2147483647.000 1 8.79 4.70 3.77 3.09 2.42 1.87 1.03 0.61 0.35 3.26 3.91 80.6  
 3 1 -2147483647.000 1 8.79 4.61 3.74 3.07 2.41 1.84 1.00 0.62 0.32 3.22 3.85 80.6  
 Drop Sequence Completed Time: 10:37  
 GPS: Quality : DGPS Fix Latitude = 39°13.536811 N Longitude = 123°5.366006 W PDOP = 1.70  
 Note: test5right1-3  
 4 1 -2147483647.000 1 8.74 5.87 5.02 4.19 3.26 2.50 1.26 0.63 0.43 4.27 5.00 76.9  
 4 1 -2147483647.000 1 8.67 5.69 4.85 4.08 3.19 2.45 1.24 0.62 0.46 4.17 4.85 76.9  
 4 1 -2147483647.000 1 8.79 5.74 4.89 4.12 3.23 2.48 1.23 0.60 0.43 4.20 4.90 76.9  
 Drop Sequence Completed Time: 10:38  
 GPS: Quality : DGPS Fix Latitude = 39°13.546006 N Longitude = 123°5.376959 W PDOP = 1.70  
 Note: test5right1-4  
 5 1 -2147483647.000 1 8.89 8.99 7.28 5.79 4.33 3.29 1.59 1.04 0.70 5.67 6.99 75.8  
 5 1 -2147483647.000 1 8.81 8.74 7.11 5.72 4.28 3.24 1.60 1.04 0.73 5.56 6.81 75.8  
 5 1 -2147483647.000 1 8.94 8.73 7.16 5.78 4.32 3.30 1.63 1.08 0.75 5.60 6.92 75.8  
 Drop Sequence Completed Time: 10:39  
 GPS: Quality : DGPS Fix Latitude = 39°13.566669 N Longitude = 123°5.402128 W PDOP = 1.70  
 Note: test5right1-5  
 6 1 -2147483647.000 1 8.94 6.86 5.07 4.38 3.60 2.95 1.85 1.27 0.88 3.98 4.57 79.8  
 6 1 -2147483647.000 1 9.13 6.71 5.01 4.33 3.59 2.97 1.84 1.27 0.89 3.99 4.55 79.8  
 6 1 -2147483647.000 1 9.13 6.63 4.99 4.33 3.61 2.96 1.86 1.26 0.90 3.98 4.49 79.8  
 Drop Sequence Completed Time: 10:40  
 GPS: Quality : DGPS Fix Latitude = 39°13.581392 N Longitude = 123°5.420504 W PDOP = 1.70  
 Note: test5right1-6  
 7 1 -2147483647.000 1 9.25 4.19 3.47 2.97 2.49 2.07 1.29 0.87 0.59 3.02 3.45 77.6  
 7 1 -2147483647.000 1 9.08 4.10 3.41 2.92 2.45 2.03 1.26 0.86 0.57 2.96 3.44 77.6  
 7 1 -2147483647.000 1 9.06 3.99 3.34 2.86 2.40 2.00 1.23 0.84 0.55 2.91 3.36 77.6  
 Drop Sequence Completed Time: 10:41  
 GPS: Quality : DGPS Fix Latitude = 39°13.596231 N Longitude = 123°5.438805 W PDOP = 1.70  
 Note: test5right1-7  
 8 1 -2147483647.000 1 9.03 4.82 3.98 3.36 2.73 2.20 1.37 1.01 0.78 3.41 3.93 78.0  
 8 1 -2147483647.000 1 9.06 4.73 3.90 3.33 2.71 2.21 1.37 1.03 0.75 3.39 3.93 78.0  
 8 1 -2147483647.000 1 8.84 4.60 3.83 3.26 2.66 2.13 1.35 0.99 0.71 3.31 3.82 78.0  
 Drop Sequence Completed Time: 10:42  
 GPS: Quality : DGPS Fix Latitude = 39°13.611086 N Longitude = 123°5.457175 W PDOP = 1.70  
 Note: test5right1-8  
 9 1 -2147483647.000 1 9.20 4.74 3.74 3.20 2.63 2.16 1.35 0.95 0.67 3.46 4.00 78.7  
 9 1 -2147483647.000 1 8.91 4.59 3.66 3.12 2.58 2.12 1.34 0.93 0.64 3.38 3.87 78.7  
 9 1 -2147483647.000 1 9.08 4.62 3.67 3.15 2.60 2.14 1.34 0.92 0.67 3.41 3.91 78.7  
 Drop Sequence Completed Time: 10:43  
 GPS: Quality : DGPS Fix Latitude = 39°13.625888 N Longitude = 123°5.475280 W PDOP = 1.70  
 Note: test5right1-9  
 10 1 -2147483647.000 1 8.98 7.23 5.70 4.65 3.63 2.85 1.69 1.07 0.73 4.93 5.99 78.4  
 10 1 -2147483647.000 1 8.81 7.02 5.52 4.51 3.56 2.79 1.65 1.08 0.73 4.82 5.81 78.4  
 10 1 -2147483647.000 1 8.86 7.04 5.55 4.55 3.57 2.83 1.67 1.07 0.72 4.85 5.87 78.4  
 Drop Sequence Completed Time: 10:45  
 GPS: Quality : DGPS Fix Latitude = 39°13.640490 N Longitude = 123°5.493422 W PDOP = 2.20  
 Note: test5right1-10  
 11 1 -2147483647.000 1 8.94 5.70 4.36 3.72 3.12 2.60 1.66 1.14 0.80 3.60 4.26 74.3

```
11 1 -2147483647.000 1 8.76 5.57 4.24 3.65 3.06 2.54 1.63 1.14 0.76 3.54 4.21 74.3
11 1 -2147483647.000 1 8.89 5.56 4.28 3.66 3.07 2.57 1.66 1.13 0.79 3.59 4.23 74.3
Drop Sequence Completed Time: 10:46
GPS: Quality : DGPS Fix Latitude = 39°13.655456 N Longitude = 123°5.511715 W PDOP = 2.20
Note: test5right1-11
12 1 -2147483647.000 1 9.08 7.50 5.68 4.82 3.90 3.12 1.93 1.27 0.91 4.81 5.81 74.3
12 1 -2147483647.000 1 8.98 7.27 5.56 4.71 3.82 3.08 1.89 1.27 0.87 4.73 5.72 74.3
12 1 -2147483647.000 1 8.89 7.19 5.52 4.66 3.76 3.04 1.85 1.23 0.90 4.68 5.67 74.3
Drop Sequence Completed Time: 10:47
GPS: Quality : DGPS Fix Latitude = 39°13.670185 N Longitude = 123°5.529923 W PDOP = 2.30
Note: test5right1-12
13 1 -2147483647.000 1 8.67 11.34 9.43 7.83 5.88 4.33 2.30 1.27 0.85 8.05 9.65 73.2
13 1 -2147483647.000 1 8.79 11.30 9.45 7.85 5.91 4.37 2.31 1.31 0.84 8.09 9.66 73.2
13 1 -2147483647.000 1 8.84 11.23 9.38 7.80 5.89 4.33 2.31 1.30 0.82 8.07 9.72 73.2
Drop Sequence Completed Time: 10:48
GPS: Quality : DGPS Fix Latitude = 39°13.685054 N Longitude = 123°5.547914 W PDOP = 2.30
Note: test5right1-13
```

**PES 4 OWP. Starting at PM 40.4345. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 10:54:15

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test 4 pattern 2 rwt

Temp: 67.43

Operator: HOFFMAN

Comments: test 4 start pm 40.49+300 to 40.27

1 1 -2147483647.000 1 8.64 6.77 4.76 4.06 3.28 2.62 1.60 1.06 0.70 4.11 4.89 80.2

1 1 -2147483647.000 1 8.57 6.40 4.60 3.94 3.19 2.54 1.56 1.03 0.69 3.96 4.74 80.2

1 1 -2147483647.000 1 8.52 6.29 4.59 3.89 3.15 2.52 1.53 1.03 0.70 3.94 4.73 80.2

Drop Sequence Completed Time: 11:10

GPS: Quality : DGPS Fix Latitude = 39°13.583357 N Longitude = 123°5.422862 W PDOP = 2.30

Note: test5right1-1

2 1 -2147483647.000 1 8.30 6.99 5.77 4.76 3.66 2.81 1.37 0.84 0.60 4.75 5.76 78.0

2 1 -2147483647.000 1 8.28 6.81 5.67 4.66 3.59 2.74 1.35 0.83 0.58 4.65 5.61 78.0

2 1 -2147483647.000 1 8.15 6.75 5.62 4.61 3.57 2.73 1.35 0.83 0.60 4.61 5.55 78.0

Drop Sequence Completed Time: 11:11

GPS: Quality : DGPS Fix Latitude = 39°13.589206 N Longitude = 123°5.430011 W PDOP = 2.30

Note: test5right1-2

3 1 -2147483647.000 1 8.64 4.57 3.66 3.19 2.67 2.11 1.21 0.78 4.10 3.16 3.77 79.5

3 1 -2147483647.000 1 8.52 4.51 3.60 3.13 2.61 2.10 1.17 0.76 1.15 3.10 3.71 79.5

3 1 -2147483647.000 1 8.50 4.45 3.56 3.10 2.58 2.07 1.17 0.77 2.73 3.08 3.68 79.5

Drop Sequence Completed Time: 11:12

GPS: Quality : DGPS Fix Latitude = 39°13.595279 N Longitude = 123°5.437442 W PDOP = 2.30

Note: test5right1-3

4 1 -2147483647.000 1 8.79 5.49 4.58 3.93 3.27 2.64 1.57 1.02 0.60 4.12 4.76 83.5

4 1 -2147483647.000 1 8.76 5.49 4.57 3.97 3.26 2.66 1.57 1.02 0.62 4.15 4.76 83.5

4 1 -2147483647.000 1 8.79 5.43 4.53 3.96 3.26 2.66 1.56 0.99 0.61 4.12 4.70 83.5

Drop Sequence Completed Time: 11:13

GPS: Quality : DGPS Fix Latitude = 39°13.600947 N Longitude = 123°5.444260 W PDOP = 2.30

Note: test5right1-4

5 1 -2147483647.000 1 8.64 4.17 3.41 2.84 2.21 1.71 0.97 0.62 0.47 2.94 3.49 82.8

5 1 -2147483647.000 1 8.67 4.10 3.30 2.76 2.19 1.70 0.96 0.64 0.45 2.91 3.42 82.8

5 1 -2147483647.000 1 8.52 4.02 3.25 2.73 2.15 1.67 0.93 0.61 0.46 2.85 3.36 82.8

Drop Sequence Completed Time: 11:14

GPS: Quality : DGPS Fix Latitude = 39°13.607249 N Longitude = 123°5.451977 W PDOP = 2.30

Note: test5right1-5

6 1 -2147483647.000 1 8.74 5.69 4.83 4.17 3.36 2.66 1.56 0.99 0.63 4.32 5.02 79.8

6 1 -2147483647.000 1 8.81 5.55 4.72 4.06 3.31 2.62 1.53 0.96 0.61 4.23 4.92 79.8

6 1 -2147483647.000 1 8.81 5.54 4.71 4.08 3.28 2.59 1.52 0.96 0.65 4.24 4.93 79.8

Drop Sequence Completed Time: 11:14

GPS: Quality : DGPS Fix Latitude = 39°13.613101 N Longitude = 123°5.459281 W PDOP = 2.30

Note: test5right1-6

7 1 -2147483647.000 1 8.86 4.36 3.51 3.03 2.52 2.04 1.25 0.87 0.57 3.32 3.77 82.4

7 1 -2147483647.000 1 8.84 4.35 3.55 3.06 2.55 2.07 1.26 0.89 0.59 3.34 3.74 82.4

7 1 -2147483647.000 1 8.89 4.30 3.50 3.02 2.52 2.06 1.29 0.87 0.57 3.31 3.74 82.4

Drop Sequence Completed Time: 11:15

GPS: Quality : DGPS Fix Latitude = 39°13.619233 N Longitude = 123°5.466881 W PDOP = 2.30

Note: test5right1-7

8 1 -2147483647.000 1 9.13 5.33 4.30 3.68 2.98 2.44 1.49 1.04 0.71 3.78 4.34 83.5

8 1 -2147483647.000 1 8.89 5.12 4.15 3.55 2.87 2.37 1.44 1.01 0.68 3.67 4.20 83.5

8 1 -2147483647.000 1 9.01 5.16 4.19 3.57 2.92 2.37 1.46 1.02 0.66 3.69 4.20 83.5

Drop Sequence Completed Time: 11:16

GPS: Quality : DGPS Fix Latitude = 39°13.625121 N Longitude = 123°5.473805 W PDOP = 2.30

Note: test5right1-8

9 1 -2147483647.000 1 8.98 6.32 5.14 4.41 3.58 2.86 1.66 1.14 0.79 4.53 5.24 85.0

9 1 -2147483647.000 1 8.74 6.05 4.95 4.25 3.43 2.74 1.60 1.08 0.75 4.37 5.09 85.0

9 1 -2147483647.000 1 8.74 6.00 4.91 4.22 3.42 2.72 1.59 1.09 0.72 4.34 5.05 85.0

Drop Sequence Completed Time: 11:17

GPS: Quality : DGPS Fix Latitude = 39°13.631226 N Longitude = 123°5.481134 W PDOP = 2.30

Note: test5right1-9

10 1 -2147483647.000 1 8.79 6.10 4.99 4.29 3.49 2.82 1.64 1.13 0.70 4.56 5.28 84.6

10 1 -2147483647.000 1 8.76 6.02 4.97 4.23 3.46 2.83 1.66 1.12 0.70 4.52 5.21 84.6

10 1 -2147483647.000 1 8.84 5.95 4.92 4.24 3.45 2.82 1.66 1.12 0.73 4.49 5.19 84.6

Drop Sequence Completed Time: 11:18

GPS: Quality : DGPS Fix Latitude = 39°13.637006 N Longitude = 123°5.488272 W PDOP = 2.40

Note: test5right1-10

11 1 -2147483647.000 1 8.74 6.27 5.32 4.47 3.51 2.81 1.65 1.12 0.78 4.54 5.31 83.5  
11 1 -2147483647.000 1 8.72 6.08 5.17 4.35 3.43 2.71 1.59 1.12 0.80 4.42 5.17 83.5  
11 1 -2147483647.000 1 8.81 6.05 5.16 4.37 3.43 2.74 1.63 1.11 0.79 4.44 5.17 83.5  
Drop Sequence Completed Time: 11:18  
GPS: Quality : DGPS Fix Latitude = 39°13.643177 N Longitude = 123°5.495803 W PDOP = 2.40  
Note: test5right1-11

**PES 4 CL. Starting at PM 40.4345. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 11:28:24  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test pattern 2 center  
Temp: 73.78  
Operator: HOFFMAN  
Comments: test 4 pm 40.430 center  
1 1 -2147483647.000 1 8.96 7.00 5.00 4.05 3.30 2.73 1.65 1.14 0.82 4.23 5.14 85.3  
1 1 -2147483647.000 1 9.01 6.77 4.94 4.01 3.27 2.70 1.62 1.12 0.80 4.17 5.01 85.3  
1 1 -2147483647.000 1 8.67 6.45 4.75 3.87 3.15 2.60 1.56 1.08 0.76 4.03 4.85 85.3  
Drop Sequence Completed Time: 11:36  
GPS: Quality : DGPS Fix Latitude = 39°13.582832 N Longitude = 123°5.423346 W PDOP = 2.00  
Note: test5right1-11  
2 1 -2147483647.000 1 8.84 7.33 6.20 5.08 4.00 3.14 1.74 1.14 0.72 5.06 5.94 85.7  
2 1 -2147483647.000 1 8.64 7.04 5.98 4.88 3.84 3.03 1.67 1.08 0.69 4.89 5.77 85.7  
2 1 -2147483647.000 1 8.59 6.92 5.85 4.82 3.79 3.00 1.65 1.08 0.68 4.83 5.70 85.7  
Drop Sequence Completed Time: 11:37  
GPS: Quality : DGPS Fix Latitude = 39°13.588885 N Longitude = 123°5.430603 W PDOP = 2.00  
Note: test5right1-2  
3 1 -2147483647.000 1 8.94 5.97 4.31 3.49 2.76 2.19 1.21 0.80 0.53 3.52 4.24 87.2  
3 1 -2147483647.000 1 9.01 5.86 4.27 3.46 2.73 2.16 1.21 0.80 0.53 3.51 4.20 87.2  
3 1 -2147483647.000 1 8.84 5.75 4.25 3.45 2.70 2.16 1.17 0.77 0.56 3.47 4.20 87.2  
Drop Sequence Completed Time: 11:38  
GPS: Quality : DGPS Fix Latitude = 39°13.595097 N Longitude = 123°5.437777 W PDOP = 2.00  
Note: test5right1-3  
4 1 -2147483647.000 1 8.94 6.62 5.58 4.68 3.68 2.86 1.60 1.04 0.67 4.63 5.49 86.8  
4 1 -2147483647.000 1 8.96 6.48 5.48 4.63 3.64 2.80 1.57 1.04 0.65 4.58 5.42 86.8  
4 1 -2147483647.000 1 8.72 6.27 5.33 4.45 3.53 2.75 1.52 1.01 0.66 4.42 5.23 86.8  
Drop Sequence Completed Time: 11:39  
GPS: Quality : DGPS Fix Latitude = 39°13.600883 N Longitude = 123°5.445066 W PDOP = 2.00  
Note: test5right1-4  
5 1 -2147483647.000 1 9.11 4.04 3.06 2.54 2.02 1.67 1.05 0.73 0.52 2.65 3.11 88.3  
5 1 -2147483647.000 1 8.89 3.91 2.99 2.45 1.96 1.59 1.01 0.73 0.47 2.55 3.04 88.3  
5 1 -2147483647.000 1 8.76 3.85 2.94 2.42 1.95 1.61 1.01 0.71 0.49 2.55 3.05 88.3  
Drop Sequence Completed Time: 11:40  
GPS: Quality : DGPS Fix Latitude = 39°13.606856 N Longitude = 123°5.452320 W PDOP = 2.00  
Note: test5right1-5  
6 1 -2147483647.000 1 8.94 5.15 4.30 3.64 2.93 2.36 1.38 0.91 0.54 3.73 4.37 87.9  
6 1 -2147483647.000 1 8.76 5.03 4.20 3.57 2.88 2.31 1.34 0.88 0.57 3.65 4.27 87.9  
6 1 -2147483647.000 1 8.67 4.89 4.09 3.48 2.83 2.23 1.33 0.86 0.52 3.59 4.14 87.9  
Drop Sequence Completed Time: 11:40  
GPS: Quality : DGPS Fix Latitude = 39°13.612904 N Longitude = 123°5.459622 W PDOP = 2.00  
Note: test5right1-6  
7 1 -2147483647.000 1 8.96 6.39 5.09 4.15 3.18 2.43 1.32 0.87 0.58 4.21 5.12 87.5  
7 1 -2147483647.000 1 8.81 6.08 4.85 3.97 3.05 2.33 1.27 0.83 0.57 4.03 4.83 87.5  
7 1 -2147483647.000 1 8.72 6.00 4.80 3.93 3.01 2.32 1.27 0.83 0.54 3.98 4.83 87.5  
Drop Sequence Completed Time: 11:41  
GPS: Quality : DGPS Fix Latitude = 39°13.618687 N Longitude = 123°5.466907 W PDOP = 1.90  
Note: test5right1-7  
8 1 -2147483647.000 1 9.01 6.24 5.12 4.27 3.33 2.58 1.49 0.99 0.66 4.33 5.14 86.8  
8 1 -2147483647.000 1 8.86 6.07 4.97 4.17 3.26 2.53 1.46 0.98 0.66 4.21 5.01 86.8  
8 1 -2147483647.000 1 8.86 5.95 4.92 4.10 3.23 2.51 1.45 0.98 0.66 4.14 4.96 86.8  
Drop Sequence Completed Time: 11:42  
GPS: Quality : DGPS Fix Latitude = 39°13.624634 N Longitude = 123°5.474214 W PDOP = 1.90  
Note: test5right1-8  
9 1 -2147483647.000 1 8.76 8.00 6.62 5.50 4.27 3.33 1.89 1.26 0.87 5.61 6.63 86.8  
9 1 -2147483647.000 1 8.64 7.82 6.49 5.40 4.21 3.26 1.87 1.22 0.85 5.49 6.52 86.8  
9 1 -2147483647.000 1 8.69 7.69 6.39 5.32 4.16 3.25 1.84 1.23 0.84 5.41 6.43 86.8  
Drop Sequence Completed Time: 11:42  
GPS: Quality : DGPS Fix Latitude = 39°13.631030 N Longitude = 123°5.482189 W PDOP = 1.90  
Note: test5right1-9

```
10 1 -2147483647.000 1 8.84 8.01 6.34 5.22 4.10 3.21 1.91 1.29 0.85 5.58 6.66 87.2
10 1 -2147483647.000 1 8.74 7.83 6.23 5.12 4.02 3.17 1.90 1.29 0.87 5.48 6.47 87.2
10 1 -2147483647.000 1 8.91 7.78 6.21 5.12 4.06 3.21 1.93 1.30 0.85 5.48 6.50 87.2
Drop Sequence Completed Time: 11:43
GPS: Quality : DGPS Fix Latitude = 39°13.636641 N Longitude = 123°5.488995 W PDOP = 1.90
Note: test5right1-10
11 1 -2147483647.000 1 8.54 6.63 5.28 4.44 3.59 2.87 1.76 1.17 0.78 5.00 5.87 86.4
11 1 -2147483647.000 1 8.52 6.43 5.17 4.37 3.53 2.84 1.73 1.19 0.79 4.90 5.74 86.4
11 1 -2147483647.000 1 8.50 6.38 5.16 4.36 3.51 2.81 1.71 1.17 0.77 4.86 5.66 86.4
Drop Sequence Completed Time: 11:44
GPS: Quality : DGPS Fix Latitude = 39°13.642770 N Longitude = 123°5.496592 W PDOP = 1.90
Note: test5right1-11
```

Table A-5. Deflection Testing Location and Normalized (9-kip) Deflection for Test Section 5

Test Point	Test Section Post Mile	Outer Wheel Path Deflection, mils	PES Post Mile	Outer Wheel Path Deflection, mils
1	41.4300	16.003	41.1030	9.205
2	41.4063	7.496	41.0935	7.427
3	41.3827	6.374	41.0841	7.805
4	41.3590	4.932	41.0746	6.060
5	41.3353	5.182	41.0651	6.495
6	41.3116	7.803	41.0556	6.857
7	41.2880	7.220	41.0462	5.850
8	41.2643	5.069	41.0367	8.034
9	41.2406	6.221	41.0272	8.840
10	41.2169	7.179	41.0178	8.990
11	41.1933	14.156	41.0083	11.360
12	41.1696	16.475	End of test	
13	41.1459	5.340		
14	41.1222	11.783		
15	41.0986	9.389		
16	41.0749	6.943		
17	41.0512	6.973		
18	41.0275	8.200		
19	41.0039	10.007		
20	40.9802	15.121		
21	40.9565	6.106		
22	40.9328	7.491		
23	40.9092	7.581		
24	40.8855	7.846		

**Test Section 5 OWP. Starting at PM 40.5485. Test interval 40 m (125 ft).**

M3

Date-Time: 4-27-2005 8: 2:57

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test sec 5 41.43 wb

Temp: 48.54

Operator: HOFFMAN

Comments: test sec 5 pattern 1 every 125 ft

1 1 -2147483647.000 1 8.59 15.46 12.48 9.33 5.84 3.25 1.46 0.99 0.76 10.90 13.47 57.5

1 1 -2147483647.000 1 8.57 15.23 12.28 9.22 5.79 3.23 1.45 0.98 0.75 10.89 13.30 57.5

1 1 -2147483647.000 1 8.62 15.15 12.24 9.21 5.81 3.29 1.44 0.99 0.76 10.83 13.24 57.5

Drop Sequence Completed Time: 08:14

GPS: Quality : DGPS Fix Latitude = 39°12.930890 N Longitude = 123°4.680200 W PDOP = 2.20

Note: test5-1

2 1 -2147483647.000 1 8.96 7.56 5.88 4.87 3.82 2.98 1.58 0.96 0.61 5.39 6.48 57.1

2 1 -2147483647.000 1 8.84 7.37 5.76 4.79 3.77 2.95 1.58 0.94 0.63 5.30 6.34 57.1

2 1 -2147483647.000 1 8.94 7.34 5.76 4.78 3.77 2.95 1.59 0.92 0.61 5.28 6.30 57.1

Drop Sequence Completed Time: 08:16

GPS: Quality : DGPS Fix Latitude = 39°12.943903 N Longitude = 123°4.704484 W PDOP = 2.20

Note: test5-2

3 1 -2147483647.000 1 9.01 6.42 5.22 4.43 3.61 2.91 1.70 1.10 0.65 4.93 5.76 59.0

3 1 -2147483647.000 1 8.86 6.30 5.14 4.35 3.54 2.85 1.67 1.06 0.65 4.84 5.60 59.0

3 1 -2147483647.000 1 8.86 6.21 5.08 4.32 3.53 2.84 1.66 1.07 0.64 4.80 5.54 59.0

Drop Sequence Completed Time: 08:17

GPS: Quality : DGPS Fix Latitude = 39°12.956369 N Longitude = 123°4.725534 W PDOP = 2.20

Note: test5-3

4 1 -2147483647.000 1 8.89 4.93 4.09 3.53 2.90 2.35 1.41 0.95 0.60 3.73 4.30 58.6

4 1 -2147483647.000 1 8.84 4.83 4.02 3.50 2.89 2.33 1.39 0.94 0.59 3.66 4.21 58.6

4 1 -2147483647.000 1 8.91 4.84 4.04 3.52 2.90 2.35 1.41 0.95 0.60 3.66 4.24 58.6

Drop Sequence Completed Time: 08:18

GPS: Quality : DGPS Fix Latitude = 39°12.969545 N Longitude = 123°4.745568 W PDOP = 2.20

Note: test5-4

5 1 -2147483647.000 1 8.57 5.02 4.38 3.80 3.11 2.53 1.59 1.10 0.74 3.89 4.44 59.0

5 1 -2147483647.000 1 8.67 4.95 4.31 3.74 3.09 2.51 1.58 1.09 0.71 3.84 4.37 59.0

5 1 -2147483647.000 1 8.62 4.92 4.30 3.74 3.07 2.51 1.58 1.07 0.73 3.86 4.35 59.0

Drop Sequence Completed Time: 08:18

GPS: Quality : DGPS Fix Latitude = 39°12.983960 N Longitude = 123°4.764814 W PDOP = 2.70

Note: test5-5

6 1 -2147483647.000 1 8.40 7.38 5.69 4.79 3.86 3.07 1.80 1.16 0.80 5.37 6.25 59.3

6 1 -2147483647.000 1 8.40 7.29 5.65 4.77 3.83 3.07 1.81 1.17 0.82 5.36 6.19 59.3

6 1 -2147483647.000 1 8.62 7.37 5.72 4.84 3.89 3.11 1.86 1.22 0.82 5.41 6.25 59.3

Drop Sequence Completed Time: 08:19

GPS: Quality : DGPS Fix Latitude = 39°12.998896 N Longitude = 123°4.782542 W PDOP = 2.60

Note: test5-6

7 1 -2147483647.000 1 9.11 7.45 6.03 5.02 4.16 3.48 2.28 1.62 1.12 5.37 6.28 59.7

7 1 -2147483647.000 1 9.13 7.27 5.95 4.94 4.11 3.43 2.25 1.62 1.11 5.28 6.13 59.7

7 1 -2147483647.000 1 9.11 7.22 5.90 4.92 4.08 3.43 2.25 1.58 1.09 5.27 6.16 59.7

Drop Sequence Completed Time: 08:20

GPS: Quality : DGPS Fix Latitude = 39°13.014198 N Longitude = 123°4.799853 W PDOP = 2.60

Note: test5-7

8 1 -2147483647.000 1 9.08 5.16 4.54 4.09 3.60 3.09 2.03 1.31 0.78 3.85 4.37 59.0

8 1 -2147483647.000 1 8.96 5.05 4.43 4.01 3.52 3.04 1.99 1.32 0.79 3.76 4.29 59.0

8 1 -2147483647.000 1 9.16 5.11 4.50 4.07 3.57 3.08 2.02 1.32 0.78 3.81 4.35 59.0

Drop Sequence Completed Time: 08:21

GPS: Quality : DGPS Fix Latitude = 39°13.029320 N Longitude = 123°4.816982 W PDOP = 2.20

Note: test5-8

9 1 -2147483647.000 1 8.94 6.26 4.58 3.78 3.01 2.33 1.21 0.82 0.54 4.09 4.88 61.9

9 1 -2147483647.000 1 8.86 6.09 4.48 3.70 2.96 2.32 1.23 0.81 0.54 4.00 4.74 61.9

9 1 -2147483647.000 1 8.98 6.16 4.54 3.75 3.00 2.35 1.24 0.82 0.52 4.04 4.82 61.9

Drop Sequence Completed Time: 08:22

GPS: Quality : DGPS Fix Latitude = 39°13.045558 N Longitude = 123°4.834101 W PDOP = 2.20

Note: test5-9

10 1 -2147483647.000 1 9.01 7.32 6.23 5.44 4.50 3.60 2.09 1.35 0.82 5.51 6.35 61.2

10 1 -2147483647.000 1 8.98 7.14 6.11 5.33 4.40 3.54 2.07 1.35 0.81 5.41 6.16 61.2

10 1 -2147483647.000 1 8.94 7.02 6.04 5.24 4.34 3.49 2.05 1.34 0.79 5.32 6.13 61.2

Drop Sequence Completed Time: 08:23

GPS: Quality : DGPS Fix Latitude = 39°13.061369 N Longitude = 123°4.850570 W PDOP = 2.20

Note: test5-10

11 1 -2147483647.000 1 8.81 14.07 11.62 9.65 7.51 5.82 3.13 1.89 1.15 10.62 12.30 61.5  
 11 1 -2147483647.000 1 8.74 13.72 11.38 9.45 7.41 5.77 3.10 1.87 1.12 10.42 12.06 61.5  
 11 1 -2147483647.000 1 8.84 13.72 11.43 9.51 7.45 5.82 3.14 1.87 1.15 10.51 12.10 61.5  
 Drop Sequence Completed Time: 08:24  
 GPS: Quality : DGPS Fix Latitude = 39°13.077306 N Longitude = 123°4.867372 W PDOP = 2.20  
 Note: test5-11  
 12 1 -2147483647.000 1 8.67 16.01 13.76 11.81 9.68 8.09 3.60 2.62 1.72 13.70 15.10 62.6  
 12 1 -2147483647.000 1 8.64 15.82 13.57 11.64 9.59 8.01 3.61 2.59 1.69 13.57 14.93 62.6  
 12 1 -2147483647.000 1 8.72 15.82 13.61 11.66 9.62 8.03 3.62 2.60 1.68 13.55 15.00 62.6  
 Drop Sequence Completed Time: 08:25  
 GPS: Quality : DGPS Fix Latitude = 39°13.093237 N Longitude = 123°4.884247 W PDOP = 2.20  
 Note: test5-12  
 13 1 -2147483647.000 1 9.13 5.45 4.62 4.03 3.42 2.89 1.91 1.41 0.98 4.28 4.86 61.5  
 13 1 -2147483647.000 1 8.98 5.35 4.53 3.94 3.34 2.85 1.85 1.35 0.94 4.19 4.75 61.5  
 13 1 -2147483647.000 1 9.01 5.29 4.47 3.92 3.32 2.82 1.87 1.37 0.96 4.18 4.73 61.5  
 Drop Sequence Completed Time: 08:26  
 GPS: Quality : DGPS Fix Latitude = 39°13.109276 N Longitude = 123°4.901556 W PDOP = 2.20  
 Note: test5-13  
 14 1 -2147483647.000 1 8.81 11.53 9.87 8.61 7.08 5.83 3.45 2.24 1.46 10.39 11.31 62.3  
 14 1 -2147483647.000 1 8.57 11.33 9.72 8.50 6.99 5.72 3.42 2.25 1.43 10.23 11.08 62.3  
 14 1 -2147483647.000 1 8.69 11.27 9.71 8.45 6.99 5.74 3.41 2.23 1.43 10.18 11.03 62.3  
 Drop Sequence Completed Time: 08:27  
 GPS: Quality : DGPS Fix Latitude = 39°13.125038 N Longitude = 123°4.918117 W PDOP = 2.20  
 Note: test5-14  
 15 1 -2147483647.000 1 8.81 9.26 7.97 6.87 5.66 4.60 2.72 1.73 1.09 6.82 7.88 62.3  
 15 1 -2147483647.000 1 8.72 9.14 7.88 6.81 5.62 4.57 2.69 1.72 1.09 6.75 7.79 62.3  
 15 1 -2147483647.000 1 8.84 9.11 7.85 6.79 5.61 4.55 2.70 1.71 1.11 6.71 7.78 62.3  
 Drop Sequence Completed Time: 08:27  
 GPS: Quality : DGPS Fix Latitude = 39°13.140927 N Longitude = 123°4.934877 W PDOP = 2.20  
 Note: test5-15  
 16 1 -2147483647.000 1 8.96 7.01 6.00 5.26 4.45 3.77 2.48 1.77 1.20 5.47 6.19 63.7  
 16 1 -2147483647.000 1 9.01 6.93 5.96 5.22 4.43 3.77 2.48 1.76 1.20 5.41 6.11 63.7  
 16 1 -2147483647.000 1 8.89 6.78 5.86 5.15 4.35 3.69 2.44 1.76 1.15 5.32 6.02 63.7  
 Drop Sequence Completed Time: 08:28  
 GPS: Quality : DGPS Fix Latitude = 39°13.156691 N Longitude = 123°4.951646 W PDOP = 2.20  
 Note: test5-16  
 17 1 -2147483647.000 1 8.94 7.01 6.08 5.16 4.22 3.49 2.12 1.48 1.02 5.25 6.19 62.3  
 17 1 -2147483647.000 1 8.81 6.82 5.94 5.05 4.14 3.40 2.09 1.46 0.98 5.14 6.01 62.3  
 17 1 -2147483647.000 1 8.84 6.77 5.92 5.04 4.14 3.42 2.08 1.45 1.02 5.12 5.98 62.3  
 Drop Sequence Completed Time: 08:29  
 GPS: Quality : DGPS Fix Latitude = 39°13.172425 N Longitude = 123°4.968305 W PDOP = 2.20  
 Note: test5-17  
 18 1 -2147483647.000 1 8.98 8.29 7.41 6.53 5.48 4.55 2.70 1.85 1.25 6.30 7.14 63.7  
 18 1 -2147483647.000 1 8.79 8.02 7.16 6.32 5.31 4.41 2.63 1.83 1.22 6.13 6.92 63.7  
 18 1 -2147483647.000 1 8.89 7.98 7.16 6.34 5.30 4.41 2.66 1.85 1.22 6.12 6.92 63.7  
 Drop Sequence Completed Time: 08:30  
 GPS: Quality : DGPS Fix Latitude = 39°13.188160 N Longitude = 123°4.985251 W PDOP = 2.20  
 Note: test5-18  
 19 1 -2147483647.000 1 8.86 9.95 8.88 7.90 6.66 5.52 3.56 2.49 1.69 8.44 9.42 63.4  
 19 1 -2147483647.000 1 8.79 9.77 8.76 7.76 6.56 5.48 3.54 2.49 1.66 8.29 9.26 63.4  
 19 1 -2147483647.000 1 8.81 9.70 8.69 7.71 6.53 5.44 3.53 2.48 1.68 8.23 9.19 63.4  
 Drop Sequence Completed Time: 08:31  
 GPS: Quality : DGPS Fix Latitude = 39°13.204082 N Longitude = 123°5.002063 W PDOP = 2.20  
 Note: test5-19  
 20 1 -2147483647.000 1 8.62 14.66 12.31 10.54 8.07 5.90 2.88 1.97 1.50 12.13 14.30 62.6  
 20 1 -2147483647.000 1 8.54 14.30 12.08 10.35 7.94 5.83 2.84 1.94 1.45 11.89 13.92 62.6  
 20 1 -2147483647.000 1 8.57 14.27 12.09 10.36 7.98 5.88 2.86 1.96 1.48 11.87 13.91 62.6  
 Drop Sequence Completed Time: 08:32  
 GPS: Quality : DGPS Fix Latitude = 39°13.219774 N Longitude = 123°5.018720 W PDOP = 2.20  
 Note: test5-20  
 21 1 -2147483647.000 1 8.81 6.05 5.14 4.42 3.65 2.96 1.75 1.22 0.86 4.62 5.27 63.4  
 21 1 -2147483647.000 1 8.96 6.06 5.12 4.45 3.68 3.02 1.80 1.20 0.86 4.65 5.31 63.4  
 21 1 -2147483647.000 1 8.91 5.99 5.08 4.39 3.65 2.98 1.77 1.22 0.86 4.57 5.25 63.4  
 Drop Sequence Completed Time: 08:32  
 GPS: Quality : DGPS Fix Latitude = 39°13.235708 N Longitude = 123°5.035497 W PDOP = 2.20  
 Note: test5-21  
 22 1 -2147483647.000 1 8.81 7.47 6.18 5.30 4.12 3.11 1.49 0.81 0.60 6.19 6.91 61.9  
 22 1 -2147483647.000 1 8.74 7.26 6.04 5.17 4.03 3.08 1.49 0.78 0.58 6.06 6.74 61.9  
 22 1 -2147483647.000 1 8.76 7.17 5.98 5.12 4.00 3.05 1.47 0.79 0.60 5.95 6.64 61.9  
 Drop Sequence Completed Time: 08:33  
 GPS: Quality : DGPS Fix Latitude = 39°13.251537 N Longitude = 123°5.051991 W PDOP = 2.20

Note: test5-22

23	1	-2147483647.000	1	8.91	7.65	6.01	5.01	3.94	3.10	1.64	0.99	0.63	5.38	6.48	60.4
23	1	-2147483647.000	1	8.96	7.48	5.88	4.93	3.90	3.05	1.64	1.02	0.63	5.31	6.38	60.4
23	1	-2147483647.000	1	8.84	7.37	5.85	4.89	3.88	3.07	1.65	1.02	0.63	5.24	6.28	60.4

Drop Sequence Completed Time: 08:34

GPS: Quality : DGPS Fix Latitude = 39°13.267285 N Longitude = 123°5.069043 W PDOP = 2.20

Note: test5-23

24	1	-2147483647.000	1	8.84	7.80	6.27	5.22	3.98	3.02	1.65	1.04	0.72	5.42	6.56	61.9
24	1	-2147483647.000	1	8.79	7.62	6.05	5.05	3.87	2.92	1.60	1.02	0.70	5.39	6.48	61.9
24	1	-2147483647.000	1	8.72	7.55	6.03	5.01	3.85	2.92	1.59	0.99	0.71	5.36	6.42	61.9

Drop Sequence Completed Time: 08:35

GPS: Quality : DGPS Fix Latitude = 39°13.283160 N Longitude = 123°5.085827 W PDOP = 2.20

Note: test5-24

**PES 5 OWP. Starting at PM 41.1030. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 8:46: 8

Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop

Weight/spring: 3

Location: test sec 5 41.43 wb rwtrack

Temp: 57.30

Operator: HOFFMAN

Comments: test sec 5 pattern 2 every 50 ft right wheel

1 1 -2147483647.000 1 5.93 6.13 5.36 4.66 3.81 3.08 1.77 1.15 0.72 4.76 5.43 64.5

1 1 -2147483647.000 1 8.79 8.99 7.89 6.87 5.68 4.60 2.65 1.75 1.10 7.01 7.97 64.5

1 1 -2147483647.000 1 11.72 11.59 10.18 8.91 7.41 6.01 3.49 2.32 1.52 9.10 10.24 64.5

Drop Sequence Completed Time: 08:53

GPS: Quality : DGPS Fix Latitude = 39°13.140806 N Longitude = 123°4.934654 W PDOP = 2.70

Note: test5r-1

2 1 -2147483647.000 1 5.93 5.02 4.41 3.91 3.30 2.70 1.63 1.02 0.64 3.87 4.39 64.5

2 1 -2147483647.000 1 8.98 7.41 6.51 5.75 4.88 4.05 2.42 1.53 0.96 5.73 6.50 64.5

2 1 -2147483647.000 1 11.99 9.62 8.42 7.49 6.38 5.29 3.20 2.04 1.30 7.47 8.47 64.5

Drop Sequence Completed Time: 08:54

GPS: Quality : DGPS Fix Latitude = 39°13.147267 N Longitude = 123°4.941485 W PDOP = 2.70

Note: test5r-2

3 1 -2147483647.000 1 5.93 5.18 4.51 3.88 3.14 2.56 1.52 1.04 0.68 3.81 4.41 67.4

3 1 -2147483647.000 1 8.81 7.64 6.64 5.72 4.70 3.84 2.29 1.56 1.02 5.62 6.50 67.4

3 1 -2147483647.000 1 11.91 9.89 8.60 7.44 6.13 5.05 3.02 2.10 1.34 7.30 8.38 67.4

Drop Sequence Completed Time: 08:56

GPS: Quality : DGPS Fix Latitude = 39°13.153796 N Longitude = 123°4.948124 W PDOP = 2.70

Note: test5r-3

4 1 -2147483647.000 1 5.98 4.13 3.58 3.14 2.68 2.27 1.44 0.98 0.65 3.21 3.67 65.9

4 1 -2147483647.000 1 9.03 6.08 5.27 4.63 3.97 3.36 2.16 1.53 1.02 4.75 5.41 65.9

4 1 -2147483647.000 1 12.08 7.77 6.71 5.92 5.09 4.32 2.80 1.96 1.30 6.00 6.87 65.9

Drop Sequence Completed Time: 08:57

GPS: Quality : DGPS Fix Latitude = 39°13.160022 N Longitude = 123°4.954872 W PDOP = 2.70

Note: test5r-4

5 1 -2147483647.000 1 5.98 4.58 4.02 3.43 2.83 2.36 1.42 0.99 0.68 3.43 3.98 65.9

5 1 -2147483647.000 1 9.16 6.61 5.77 4.94 4.14 3.43 2.13 1.50 1.00 4.99 5.77 65.9

5 1 -2147483647.000 1 12.11 8.26 7.22 6.22 5.20 4.34 2.71 1.92 1.34 6.23 7.17 65.9

Drop Sequence Completed Time: 08:57

GPS: Quality : DGPS Fix Latitude = 39°13.166245 N Longitude = 123°4.961521 W PDOP = 2.70

Note: test5r-5

6 1 -2147483647.000 1 6.15 4.86 4.18 3.53 2.82 2.24 1.32 0.95 0.64 3.57 4.23 65.2

6 1 -2147483647.000 1 9.03 6.88 5.92 5.04 4.07 3.25 1.96 1.39 0.94 5.14 5.97 65.2

6 1 -2147483647.000 1 11.91 8.75 7.54 6.40 5.20 4.25 2.55 1.82 1.19 6.54 7.60 65.2

Drop Sequence Completed Time: 08:58

GPS: Quality : DGPS Fix Latitude = 39°13.172456 N Longitude = 123°4.968225 W PDOP = 2.70

Note: test5r-6

7 1 -2147483647.000 1 6.08 4.08 3.60 3.07 2.45 1.98 1.24 0.88 0.57 2.99 3.52 67.7

7 1 -2147483647.000 1 9.03 5.87 5.12 4.41 3.57 2.94 1.83 1.31 0.89 4.31 5.06 67.7

7 1 -2147483647.000 1 12.08 7.49 6.56 5.59 4.58 3.79 2.40 1.70 1.14 5.52 6.45 67.7

Drop Sequence Completed Time: 08:59

GPS: Quality : DGPS Fix Latitude = 39°13.178677 N Longitude = 123°4.974883 W PDOP = 2.70

Note: test5r-7

8 1 -2147483647.000 1 5.88 5.43 4.74 4.11 3.31 2.68 1.66 1.09 0.70 4.00 4.62 68.8

8 1 -2147483647.000 1 8.94 7.98 6.95 5.98 4.88 3.99 2.49 1.66 1.06 5.86 6.81 68.8

8 1 -2147483647.000 1 11.91 10.22 8.85 7.66 6.29 5.13 3.25 2.18 1.43 7.51 8.73 68.8

Drop Sequence Completed Time: 09:00

GPS: Quality : DGPS Fix Latitude = 39°13.185067 N Longitude = 123°4.981667 W PDOP = 2.70

Note: test5r-8

9 1 -2147483647.000 1 6.15 6.09 5.24 4.59 3.78 3.08 1.95 1.25 0.80 4.90 5.59 66.3

9 1 -2147483647.000 1 9.01 8.85 7.65 6.69 5.56 4.55 2.90 1.88 1.23 7.16 8.19 66.3

9 1 -2147483647.000 1 11.89 11.34 9.78 8.58 7.19 5.93 3.77 2.48 1.65 9.14 10.39 66.3

Drop Sequence Completed Time: 09:01

GPS: Quality : DGPS Fix Latitude = 39°13.191517 N Longitude = 123°4.988496 W PDOP = 2.70

Note: test5r-9

10 1 -2147483647.000 1 5.88 5.98 5.25 4.58 3.75 3.05 1.89 1.22 0.80 4.68 5.31 66.7

10 1 -2147483647.000 1 8.84 8.83 7.76 6.78 5.56 4.58 2.86 1.87 1.21 6.94 7.87 66.7

10 1 -2147483647.000 1 11.89 11.43 10.04 8.76 7.28 6.02 3.78 2.52 1.65 8.99 10.15 66.7

Drop Sequence Completed Time: 09:02

GPS: Quality : DGPS Fix Latitude = 39°13.197741 N Longitude = 123°4.994828 W PDOP = 2.70

Note: test5r-10

11 1 -2147483647.000 1 5.93 7.60 6.78 6.00 4.97 4.16 2.68 1.72 1.11 6.28 7.03 66.3  
11 1 -2147483647.000 1 8.81 11.12 9.95 8.80 7.37 6.20 4.02 2.67 1.68 9.22 10.21 66.3  
11 1 -2147483647.000 1 11.67 14.23 12.76 11.29 9.55 8.04 5.30 3.57 2.33 11.75 12.98 66.3  
Drop Sequence Completed Time: 09:03  
GPS: Quality : DGPS Fix Latitude = 39°13.204054 N Longitude = 123°5.001660 W PDOP = 2.70  
Note: test5r-11

**PES 5 CL. Starting at PM 41.1030. Test interval 15 m (50 ft).**

M3

Date-Time: 4-27-2005 9: 4:44  
Sensors: 092011f 092012f 092013f 092014f 092015f 092016f 092017f 092018f 092019f chop  
Weight/spring: 3  
Location: test sec 5 41.43 wb center  
Temp: 59.01  
Operator: HOFFMAN  
Comments: test sec 5 pattern 2 every 50 ft center  
1 1 -2147483647.000 1 5.91 6.17 5.36 4.62 3.77 3.00 1.80 1.14 0.71 4.60 5.35 69.2  
1 1 -2147483647.000 1 9.11 9.35 8.07 6.98 5.75 4.58 2.82 1.81 1.13 6.98 8.15 69.2  
1 1 -2147483647.000 1 11.89 11.81 10.22 8.88 7.35 5.86 3.61 2.34 1.44 8.83 10.28 69.2  
Drop Sequence Completed Time: 09:13  
GPS: Quality : DGPS Fix Latitude = 39°13.140560 N Longitude = 123°4.934721 W PDOP = 2.70  
Note: test5center-1  
2 1 -2147483647.000 1 6.01 4.96 4.29 3.73 3.05 2.50 1.48 0.99 0.68 3.73 4.27 70.7  
2 1 -2147483647.000 1 9.03 7.41 6.38 5.57 4.59 3.74 2.30 1.56 1.04 5.57 6.40 70.7  
2 1 -2147483647.000 1 11.89 9.60 8.30 7.21 5.98 4.87 3.02 2.05 1.36 7.22 8.27 70.7  
Drop Sequence Completed Time: 09:14  
GPS: Quality : DGPS Fix Latitude = 39°13.147021 N Longitude = 123°4.941523 W PDOP = 2.70  
Note: test5center-2  
3 1 -2147483647.000 1 5.98 4.75 4.12 3.60 2.99 2.49 1.57 1.02 0.66 3.63 4.16 70.3  
3 1 -2147483647.000 1 8.86 6.92 6.03 5.24 4.39 3.65 2.34 1.51 1.01 5.33 6.07 70.3  
3 1 -2147483647.000 1 11.69 8.88 7.74 6.75 5.69 4.72 3.00 1.98 1.32 6.82 7.74 70.3  
Drop Sequence Completed Time: 09:14  
GPS: Quality : DGPS Fix Latitude = 39°13.153450 N Longitude = 123°4.948320 W PDOP = 2.70  
Note: test5center-3  
4 1 -2147483647.000 1 5.98 3.14 2.68 2.40 2.06 1.75 1.19 0.85 0.58 2.54 2.80 70.7  
4 1 -2147483647.000 1 9.06 4.74 4.07 3.61 3.12 2.66 1.83 1.29 0.90 3.84 4.26 70.7  
4 1 -2147483647.000 1 12.01 6.24 5.34 4.76 4.11 3.48 2.41 1.71 1.20 5.05 5.50 70.7  
Drop Sequence Completed Time: 09:15  
GPS: Quality : DGPS Fix Latitude = 39°13.159832 N Longitude = 123°4.955199 W PDOP = 2.70  
Note: test5center-4  
5 1 -2147483647.000 1 6.01 3.74 3.24 2.86 2.46 2.10 1.42 0.99 0.70 2.97 3.32 69.9  
5 1 -2147483647.000 1 8.94 5.54 4.79 4.27 3.68 3.13 2.14 1.52 1.07 4.42 4.92 69.9  
5 1 -2147483647.000 1 11.96 7.14 6.21 5.51 4.75 4.03 2.77 1.98 1.39 5.68 6.31 69.9  
Drop Sequence Completed Time: 09:17  
GPS: Quality : DGPS Fix Latitude = 39°13.165984 N Longitude = 123°4.961599 W PDOP = 2.70  
Note: test5center-5  
6 1 -2147483647.000 1 6.03 4.17 3.61 3.19 2.69 2.26 1.53 1.07 0.71 3.39 3.76 71.8  
6 1 -2147483647.000 1 8.86 6.11 5.32 4.67 3.95 3.30 2.29 1.60 1.05 5.02 5.56 71.8  
6 1 -2147483647.000 1 11.94 7.85 6.80 5.98 5.05 4.26 2.95 2.10 1.38 6.39 7.10 71.8  
Drop Sequence Completed Time: 09:18  
GPS: Quality : DGPS Fix Latitude = 39°13.172174 N Longitude = 123°4.968373 W PDOP = 2.70  
Note: test5center-6  
7 1 -2147483647.000 1 5.91 4.45 3.92 3.44 2.87 2.36 1.53 1.04 0.70 3.44 3.90 72.1  
7 1 -2147483647.000 1 8.89 6.58 5.78 5.07 4.25 3.52 2.29 1.58 1.06 5.09 5.75 72.1  
7 1 -2147483647.000 1 11.87 8.46 7.41 6.48 5.44 4.51 2.95 2.05 1.35 6.50 7.37 72.1  
Drop Sequence Completed Time: 09:18  
GPS: Quality : DGPS Fix Latitude = 39°13.178437 N Longitude = 123°4.975134 W PDOP = 2.70  
Note: test5center-7  
8 1 -2147483647.000 1 6.05 5.14 4.43 3.69 2.98 2.44 1.56 1.05 0.70 3.63 4.26 71.8  
8 1 -2147483647.000 1 8.98 7.52 6.42 5.41 4.38 3.60 2.31 1.56 1.07 5.35 6.25 71.8  
8 1 -2147483647.000 1 12.01 9.68 8.28 6.94 5.66 4.68 3.03 2.09 1.39 6.93 8.03 71.8  
Drop Sequence Completed Time: 09:19  
GPS: Quality : DGPS Fix Latitude = 39°13.184758 N Longitude = 123°4.981762 W PDOP = 2.80  
Note: test5center-8  
9 1 -2147483647.000 1 5.79 5.39 4.78 4.21 3.52 2.95 1.90 1.29 0.87 4.19 4.71 71.4  
9 1 -2147483647.000 1 8.94 8.24 7.25 6.41 5.42 4.54 2.95 2.02 1.36 6.43 7.28 71.4  
9 1 -2147483647.000 1 11.74 10.49 9.29 8.13 6.92 5.80 3.80 2.63 1.77 8.18 9.25 71.4  
Drop Sequence Completed Time: 09:20  
GPS: Quality : DGPS Fix Latitude = 39°13.191269 N Longitude = 123°4.988635 W PDOP = 2.80  
Note: test5center-9

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10 1 -2147483647.000 1 5.91 5.01 4.42 3.90 3.27 2.74 1.76 1.19 0.80 3.97 4.49 72.1
10 1 -2147483647.000 1 8.86 7.44 6.55 5.80 4.89 4.08 2.69 1.80 1.22 5.90 6.68 72.1
10 1 -2147483647.000 1 11.82 9.71 8.54 7.55 6.38 5.38 3.53 2.41 1.62 7.71 8.59 72.1
Drop Sequence Completed Time: 09:20
GPS: Quality : DGPS Fix Latitude = 39°13.197794 N Longitude = 123°4.995576 W PDOP = 2.80
Note: test5center-10
11 1 -2147483647.000 1 5.88 5.90 5.39 4.87 4.14 3.48 2.29 1.52 1.03 4.95 5.43 71.8
11 1 -2147483647.000 1 8.94 8.88 8.12 7.28 6.24 5.23 3.46 2.39 1.57 7.41 8.18 71.8
11 1 -2147483647.000 1 11.77 11.42 10.44 9.36 8.05 6.78 4.51 3.12 2.13 9.48 10.46 71.8
Drop Sequence Completed Time: 09:21
GPS: Quality : DGPS Fix Latitude = 39°13.203736 N Longitude = 123°5.001931 W PDOP = 2.80
Note: test5center-11
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