

PENNSYLVANIA COMPENSATION RATING BUREAU
F CLASS FILING

U. S. Longshore and Harbor Workers' Coverage Factor

In support of a modification to the United States Longshore and Harbor Workers' Compensation Coverage Percentage, which represents a load factor applied to state act coverage rates, the Bureau presents the following exhibits. In these exhibits, we compare benefit levels as prescribed under Pennsylvania law to those given by the Federal law. For brevity, we will use PA and USL when referring to the respective jurisdictions.

Exhibit I outlines the essential features of current USL and PA workers' compensation laws. Note that in footnotes on page 2 are the national and statewide average weekly wages that were used in developing the exhibits that follow.

Exhibit II summarizes the Bureau's findings. The ratios in column 2 are drawn from the subsequent exhibits. The weights representing the distribution of losses by type of injury are the same as those used in the Bureau's estimate of the effect of Act 57. We propose that the USL percentage be decreased from 78.13% to 77.46%.

Starting with Exhibit III and proceeding through Exhibit XII, we develop the factors that are used in Exhibit II. For each type of injury, we develop first the benefit level under the state act, then the corresponding benefit under the USL act. The respective ratios of these benefits are carried forward to Exhibit II.

The distribution of dependents in Exhibits III-A and III-B and of cases in Exhibits V-A and V-B are from the Workers Compensation Injury Table. The distribution of widows on Exhibits III-C and III-D were compiled from the Bureau's own data for the eight most recent policy years. All annuity values are derived from the 1999 United States Life Tables.

Please note that the USL&H loading factor does not include the Federal Assessment, which is shown in the Expense Loading.

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EXHIBIT I

COMPARISON OF U.S.L. AND PENNSYLVANIA BENEFITS

<u>Fatal</u> % Rate of Compensation	<u>U.S.L.</u>	<u>Pennsylvania</u>
Widow Alone	50%	51%
Widow and Children	66 2/3%	60% w/1 child, 66 2/3% for 2 or more
One Orphan	50%	32%
Two or more Orphans	66 2/3%	42% for 2, 52% for 3, 62% for 4 64% for 5, 66 2/3% for 6 or more
One Parent	25%	52%
Two Parents	50%	52%
Brother / Sister / Other dependent	20% for each	22% + 5% for each additional up to 32%
Maximum % Rate of Compensation	66 2/3%	66 2/3%
Wage for Minimum Weekly Benefit	NAWW (a)	50% SAWW (b)
Maximum Weekly Benefit	200% NAWW (a)	SAWW (b)
Duration	Life or Remarriage; Age 18 for Child, or 23 if student	Life or Remarriage; Age 18 for Child, or 23 if student
Burial Expense	\$3,000	\$3,000
Remarriage Award	2 years lump sum	2 years lump sum
Special Fund (Non-dependency cases)	\$5,000	None
Escalation (e)	4.0%	None
<u>Permanent Total Disability</u> % Rate of Compensation	66 2/3%	66 2/3%
Minimum Weekly Benefit	Minimum of AWW (c) or 50% NAWW (a)	Minimum of 90% of AWW (c) or 50% SAWW (b)
Maximum Weekly Benefit	200% NAWW (a)	100% SAWW (b)
Duration	Length of Disability	Length of Disability
Escalation (e)	4.0%	None

EXHIBIT I (CONTINUED)

COMPARISON OF U.S.L. AND PENNSYLVANIA BENEFITS

<u>Temporary Total Disability</u>	<u>U.S.L.</u>	<u>Pennsylvania</u>
% Rate of Compensation	66 2/3 %	66 2/3 %
Minimum Weekly Benefit	Minimum of AWW (c) or 50% NAWW (a)	Minimum of 90% of AWW (c) or 50% SAWW (b)
Maximum Weekly Benefit	200% NAWW (a)	100% SAWW (b)
Duration	Length of Disability	Length of Disability
Waiting Period/ Retroactive after, days	3 / 14	7 / 13
 <u>Permanent Partial Disability</u>		
<u>Scheduled Injuries :</u>		
% Rate of Compensation	66 2/3 %	66 2/3 %
Minimum / Maximum Weekly Benefit	- / 200% NAWW (a)	50% SAWW (b) / 100% SAWW (b)
Duration	As per Schedule	As per Schedule
<u>Non-Scheduled Injuries :</u>		
% Rate of Compensation	66 2/3 % LOEC (d)	66 2/3 % LOEC (d)
Minimum / Maximum Weekly Benefit	- / 200% NAWW (a)	- / 100% SAWW (b)
Duration	Length of Disability	Length of Disability, with maximum of 500 weeks in addition to healing period

(a) NAWW, Effective 10/1/2012 \$ 662.59
 50% NAWW \$ 331.30
 200% NAWW \$ 1,325.18

(b) SAWW, Effective 1/1/2013 \$ 917.00

(c) AWW = Average Workers' Wage

(d) LOEC = Loss of Earning Capacity,
 Assumed to be equal to Wage Loss

(e) Adjusted annually each October 1 by increase in NAWW,
 limited to 5%.

EXHIBIT II

OVERALL DIFFERENCE IN BENEFITS

<u>Type of Injury</u>	<u>Losses</u>	<u>Post Act 57 Weights</u>	<u>Act 57 Factors</u>	<u>Pre Act 57 Weights</u>	(1)	(2)	(3)	(4)	(5)	
					<u>Weight State Act Benefit Level Pre-Act 57</u>	<u>Ratio</u>	<u>(1) * (2)</u>	<u>Benefit Level Reflecting Federal Act</u>	<u>Act 57 Factors</u>	<u>State Act Benefit Level Post Act 57</u>
Death	1,608,716	0.0134	0.9383	0.0143	0.0136	1.904	0.0259	0.9383	0.0128	
Permanent Total	1,414,858	0.0118	0.4310	0.0274	0.0262	1.848	0.0484	0.4310	0.0113	
Major Permanent Partial	34,105,498	0.2846	0.9383	0.3033	0.2895	1.982	0.5738	0.9383	0.2716	
Minor Permanent Partial	12,951,592	0.1081	0.9382	0.1152	0.1100	2.577	0.2835	0.9382	0.1032	
Temporary Total	10,088,486	0.0842	0.9383	0.0897	0.0856	1.064	0.0911	0.9383	0.0803	
Medical	59,647,953	0.4978	1.0000	0.4978	0.4751	1.412 *	0.6708	1.0000	0.4751	
Total Effect	119,817,103	1.0000		1.0477	1.0000		1.6935		0.9543	
OVERALL BENEFIT CHANGE (3 Total) / (5 Total)								1.7746		

* 1.412 = 1/0.7082; reflects savings due to Act 44 Medical Fee Schedule.

EXHIBIT III

CALCULATION OF DIFFERENCE IN BENEFITS FOR FATAL CASES

	Pennsylvania	U.S.L.
1. Cost of Dependency (Exhibits III-A, III-B)	356,544,144	683,263,894
2. Remarriage Award (a), (b)	5,343,501	7,679,867
3. Burial Cost (Allowance * 1,000 Cases)	3,000,000	3,000,000
4. Second Injury Fund (147 Cases * \$5,000)	-	735,000
5. Total Cost { (1)+(2)+(3)+(4) }	364,887,645	694,678,761
6. Ratio U.S.L. to Pennsylvania		1.904

(a) Calculation of Remarriage Award	Pennsylvania	U.S.L.
1. Number of Cases, Widow Alone	356	356
2. Remarriage Value (Exhibit III-C, III-D)	0.0810	0.1118
3. Number of Cases, Widow w/ children	427	427
4. Remarriage Value (Exhibit III-C, III-D)	0.1903	0.2636
5. Average Weekly Benefit (Exhibit VII, VIII)	466.69	484.68
6. Award: ((#1 * #2) + (#3 * #4)) * #5 * 104 weeks	5,343,501	7,679,867

(a) US L& H Includes 4.0% escalation

(b) From 1999 US Life Tables for Total Female Population.

Remarriage Values from 1982 Remarriage Table, PCAS Vol. LXIX, pg. 56

EXHIBIT III-A

VALUATION OF PENNSYLVANIA FATAL BENEFITS LAW

(1) # Of Cases	(2) Person Receiving Compensation	(3) # Of Dependents	(4) Average Pension Age	(5) Annuity Symbol	(6) Annuity Value	(7) Average Weekly Benefit (b)	(8) Monetary Cost (1)x(6)x(7)
147	None	None	xxx	xxx	xxx	xxx	xxx
356	Widow alone	1	51	$\bar{a} \overline{51:\text{life}}$	890.97	466.69	148,027,217
136	Widow with child	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	30,337,314
		1	10	$a \overline{494}$	421.54	536.33	30,747,499
129	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	28,775,835
		2	10	$a \overline{494}$	421.54	582.35	31,667,413
82	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	18,291,616
		3	10	$a \overline{494}$	421.54	582.35	20,129,673
42	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	9,368,876
		4	10	$a \overline{494}$	421.54	582.35	10,310,320
22	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	4,907,507
		5	10	$a \overline{494}$	421.54	582.35	5,400,644
16	Widow with children (>5)	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	477.98	466.69	3,569,096
		7 (a)	10	$a \overline{494}$	421.54	582.35	3,927,741
16	Orphan	1	10	$a \overline{494}$	421.54	298.78	2,015,164
10	Orphans	2	10	$a \overline{494}$	421.54	389.80	1,643,163
7	Orphans	3	10	$a \overline{494}$	421.54	474.79	1,401,001
3	Orphans	4	10	$a \overline{494}$	421.54	550.52	696,199
1	Orphans (more than 4)	5 (a)	10	$a \overline{494}$	421.54	564.40	237,917
13	Parent	1	58	$\bar{a} \overline{58:40\overline{0}}$	337.74	474.79	2,084,622
17	Parents	2	48	$\bar{a} \overline{48:40\overline{0}}$	345.59	474.79	2,789,405
1	Brother or Sister	1	23	$\bar{a} \overline{23:40\overline{0}}$	350.12	205.57	71,974
2	Other Dependents	1 (a)	21	$\bar{a} \overline{21:40\overline{0}}$	350.12	205.57	143,948
1000	Total						356,544,144

(a) Average
(b) Exhibit VII

EXHIBIT III-B

VALUATION OF U.S.L. FATAL BENEFITS LAW

(1) # Of Cases	(2) Person Receiving Compensation	(3) # Of Dependents	(4) Average Pension Age	(5) Annuity Symbol	(6) Annuity Value (b)	(7) Average Weekly Benefit (c)	(8) Monetary Cost (1)x(6)x(7)
147	None	None	xxx	xxx	xxx	xxx	xxx
356	Widow alone	1	51	$\bar{a} \overline{51:\text{life}}$	1,626.14	484.68	280,584,083
136	Widow with child	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	74,763,790
		1	10	$a \overline{494}$	505.46	632.24	43,461,796
129	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	70,915,654
		2	10	$a \overline{494}$	505.46	632.24	41,224,792
82	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	45,078,167
		3	10	$a \overline{494}$	505.46	632.24	26,204,906
42	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	23,088,817
		4	10	$a \overline{494}$	505.46	632.24	13,422,025
22	Widow with children	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	12,094,142
		5	10	$a \overline{494}$	505.46	632.24	7,030,585
16	Widow with children (>5)	1	39	$9.5 \mid \overline{a} \overline{39:\text{life}}$	1,134.22	484.68	8,795,740
		7 (a)	10	$a \overline{494}$	505.46	632.24	5,113,152
16	Orphan	1	10	$a \overline{494}$	505.46	484.68	3,919,782
10	Orphans	2	10	$a \overline{494}$	505.46	632.24	3,195,720
7	Orphans	3	10	$a \overline{494}$	505.46	632.24	2,237,004
3	Orphans	4	10	$a \overline{494}$	505.46	632.24	958,716
1	Orphans (more than 4)	5 (a)	10	$a \overline{494}$	505.46	632.24	319,572
13	Parent	1	58	$\bar{a} \overline{58:\text{life}}$	1,283.81	244.89	4,087,099
17	Parents	2	48	$\bar{a} \overline{48:\text{life}}$	1,793.45	484.68	14,777,239
1	Brother or Sister	1	23	$\bar{a} \overline{23:\text{life}}$	3,298.31	196.07	646,700
2	Other Dependents	1 (a)	21	$\bar{a} \overline{21:\text{life}}$	3,428.40	196.07	1,344,413
1000	Total						683,263,894

(a) Average

(b) Includes 4.0% escalation

(c) Exhibit VIII

EXHIBIT III-C

CALCULATION OF REMARRIAGE VALUES - PENNSYLVANIA

(1) Average Age x	(2) # of Cases		(4) $\frac{R[x]}{D[x]}$	(5) (2)x(4)	(6) (3)x(4)
	Widow Alone	Widow w/ children			
17	-	1	0.77082	-	0.77082
22	3	5	0.53632	1.60896	2.68160
27	8	24	0.39234	3.13872	9.41616
32	14	25	0.27335	3.82690	6.83375
37	10	38	0.18346	1.83460	6.97148
42	38	37	0.12013	4.56494	4.44481
47	46	32	0.07735	3.55810	2.47520
52	59	15	0.04883	2.88097	0.73245
57	62	4	0.02998	1.85876	0.11992
62	24	-	0.01769	0.42456	-
67	15	-	0.00985	0.14775	-
72	10	-	0.00510	0.05100	-
77	4	-	0.00245	0.00980	-
82	-	-	0.00107	-	-
87	2	-	0.00043	0.00086	-
Total	295	181	2.46917	23.90592	34.44619

Remarriage Values (a)

Widow alone = (5 Total) / (2 Total) =	0.0810
Widow with children = (6 Total) / (3 Total) =	0.1903

- (a) Present value of percent of distribution remarriage
 (b) From 1999 US Life Tables for Total Female Population.
 Remarriage Values from 1982 Remarriage Table, PCAS Vol. LXIX, pg. 56

EXHIBIT III-D

CALCULATION OF REMARRIAGE VALUES - U.S.L. LAW

(1) Average Age x	(2) # of Cases Widow Alone		(3) Widow w/ children	(4) $\frac{R[x]}{D[x]}$	(5) (2)x(4)	(6) (3)x(4)
17	-	1		0.97180	-	0.97180
22	3	5		0.71734	2.15202	3.58670
27	8	24		0.53990	4.31920	12.95760
32	14	25		0.38206	5.34884	9.55150
37	10	38		0.25798	2.57980	9.80324
42	38	37		0.16855	6.40490	6.23635
47	46	32		0.10740	4.94040	3.43680
52	59	15		0.06664	3.93176	0.99960
57	62	4		0.04000	2.48000	0.16000
62	24	-		0.02300	0.55200	-
67	15	-		0.01246	0.18690	-
72	10	-		0.00628	0.06280	-
77	4	-		0.00294	0.01176	-
82	-	-		0.00125	-	-
87	2	-		0.00049	0.00098	-
Total	295	181		3.29809	32.97136	47.70359

Remarriage Values (a)

Widow alone = (5 Total) / (2 Total) =	0.1118
Widow with children = (6 Total) / (3 Total) =	0.2636

- (a) Present value of percent of distribution remarrying, includes 4.0% escalation
 (b) From 1999 US Life Tables for Total Female Population.
 Remarriage Values from 1982 Remarriage Table, PCAS Vol. LXIX, pg. 56

EXHIBIT IV

CALCULATION OF DIFFERENCE IN BENEFITS
PERMANENT TOTAL DISABILITY CASES

	Pennsylvania	U.S.L.	
1. Annuity Symbol	$\bar{a}_{51:\overline{life}}$	$\bar{a}_{51:\overline{life}}$	(a)
2. Annuity Value	906.94	1,633.71	,
3. Average Weekly Benefit (Exhibits IX, X)	598.07	613.49	,
4. Cost of 1,000 Cases { (2)x(3)x1,000 }	542,413,606	1,002,264,748	,
5. Ratio U.S.L. to Pennsylvania		1.848	,
			,
			,
			,
			,
			,
			,

(a) Includes 4.0% escalation per annum
(b) From 1999 US Life Tables for Total Population

EXHIBIT V

COMPARISON OF PENNSYLVANIA & U.S.L. BENEFITS
MAJOR & MINOR PERMANENT PARTIAL

Type	(1) Number (a)	(2) Duration (a)	(3) (1)*(2)	(4) Average Weekly Benefit	(5) Total Cost (3)*(4)
<u>A. Major Permanent</u>					
Pennsylvania Benefit Level:					
Dismemberment	27	352.22	9,510	620.29 (b)	5,898,958
Healing Period	146	21.32	3,113	598.07 (c)	1,861,792
Other (Loss of Use)	119	352.87	41,992	620.29	26,047,218
Non-Schedule	497 (d)	500.00	248,500	244.52 (f)	60,763,220
Total Cost					94,571,188
U.S.L. Benefit Level:					
Dismemberment	27	245.85	6,638	603.83 (b)	4,008,224
Healing Period	503	25.76	12,957	613.49 (e)	7,948,990
Other (Loss of Use)	476	141.87	67,530	603.83	40,776,640
Non-Schedule	497 (d)	1,108.31 (g)	550,830	244.56 (f)	134,710,985
Total Cost					187,444,839
Ratio U.S.L. to Pennsylvania					1.982

B. Minor Permanent

Pennsylvania Benefit Level:					
Dismemberment	204	32.02	6,532	620.29	4,051,734
Healing Period	204	6.83	1,393	598.07	833,112
Non-Schedule	1,120 (d)	500.00	560,000	152.86 (f)	85,601,600
Total Cost					90,486,446
U.S.L. Benefit Level:					
Dismemberment	194	24.69	4,790	603.83	2,892,346
Healing Period	2,196	7.30	16,031	613.49	9,834,858
Other (Loss of Use)	2,002	25.38	50,811	603.83	30,681,206
Non-Schedule	1,120 (d)	1,108.31 (g)	1,241,307	152.86 (f)	189,746,188
Total Cost					233,154,598
Ratio U.S.L. to Pennsylvania					2.577

(a) Exhibits V-A, V-B

(b) Exhibit XI

(c) Exhibit IX

(d) "Workers' Compensation Injury Table,"

Published by the National Council on Compensation Insurance, Inc.

(e) Exhibit X

(f) Exhibit XII

(g) (N 37 / D 37) * 52, no escalation, from 1999
US Life Table for Total Population (est for 100+)

EXHIBIT V-A

SCHEDULE BENEFIT PROVISIONS - PENNSYLVANIA LAW
MAJOR & MINOR PERMANENT DISABILITY

Type of Benefit	(1) # of Cases (a)	(2) Avg. % Loss	(3) Schedule at 100%	(4) (2) * (3) Duration	(5) Healing Period
I. Major Permanent					
A. Dismemberment Cases					
Arm (at or above elbow)	4	100	410	410	20
Arm (below elbow)	3	100	370	370	20
Hand	5	100	335	335	20
Leg (at or above knee)	6	100	410	410	25
Leg (below knee)	3	100	350	350	25
Foot	3	100	250	250	25
Eye (enucleation)	3	100	275	275	10
Total or Average (c)	27			352.22	21.11
B. Other Than Dismemberment (b)					
Arm (loss of use)	20.25	100	410	410	20
Hand (loss of use)	34.75	100	335	335	20
Leg (loss of use)	36.25	100	410	410	25
Foot (loss of use)	17.25	100	250	250	25
Eye (loss of use)	9.5	100	275	275	10
Hearing (loss of hearing)	1	100	260	260	10
Total or Average (c)	119			352.87	21.37
Average Healing Period (c)					21.32
II. Minor Permanent					
Thumb - 1st phalange	23	100	50	50	10
Thumb - 2nd phalange	5	100	100	100	10
Index Finger - 1st phalange	48	100	25	25	6
Index Finger - 2nd phalange	18	100	50	50	6
Middle Finger - 1st phalange	32	100	20	20	6
Middle Finger - 2nd phalange	11	100	40	40	6
Ring Finger - 1st phalange	19	100	15	15	6
Ring Finger - 2nd phalange	8	100	30	30	6
Little Finger - 1st phalange	15	100	14	14	6
Little Finger - 2nd phalange	8	100	28	28	6
Great Toe - 1st phalange	2	100	20	20	12
Great Toe - 2nd phalange	1	100	40	40	12
Other Toes	4	100	16	16	6
Hearing - One ear	10	100	60	60	10
Total or Average (c)	204			32.02	6.83

(a) From the "Workers' Compensation Injury Table," published by National Council on Compensation Insurance, Inc.

(b) Assumed 25% of loss of use cases are considered 100% loss of use.

(c) Total for column (1), Average for columns (4) and (5) using column (1) as weights.

EXHIBIT V-B

SCHEDULE BENEFIT PROVISIONS - U.S.L. LAW
MAJOR & MINOR PERMANENT DISABILITY

Type of Benefit	(1) # of Cases (a)	(2) Avg. % Loss	(3) Schedule at 100%	(4) (2) * (3) Duration	(5) Healing Period
I. Major Permanent					
A. Dismemberment Cases					
Arm (at or above elbow)	4	100	312	312	33
Arm (below elbow)	3	100	244	244	18
Hand	5	100	244	244	29
Leg (at or above knee)	6	100	288	288	34
Leg (below knee)	3	100	205	205	39
Foot	3	100	205	205	26
Eye (enucleation)	3	100	160	160	20
Total or Average (b)	27			245.85	29.26
B. Other Than Dismemberment					
Arm (loss of use)	81	53	312	165	27
Hand (loss of use)	139	56	244	137	20
Leg (loss of use)	145	53	288	153	34
Foot (loss of use)	69	51	205	105	25
Eye (loss of use)	38	88	160	141	14
Hearing (loss of hearing)	4	56	200	112	3
Total or Average (b)	476			141.87	25.56
Average Major Member Healing Period (b)					25.76
II. Minor Permanent					
A. Dismemberment Cases					
Thumb - 1st phalange	23	100	37.50	37.50	6
Thumb - 2nd phalange	5	100	75.00	75.00	6
Index Finger - 1st phalange	48	100	23.00	23.00	5
Index Finger - 2nd phalange	18	100	46.00	46.00	8
Middle Finger - 1st phalange	32	100	15.00	15.00	3
Middle Finger - 2nd phalange	11	100	30.00	30.00	7
Ring Finger - 1st phalange	19	100	12.50	12.50	4
Ring Finger - 2nd phalange	8	100	25.00	25.00	4
Little Finger - 1st phalange	15	100	7.50	7.50	2
Little Finger - 2nd phalange	8	100	15.00	15.00	5
Great Toe - 1st phalange	2	100	19.00	19.00	6
Great Toe - 2nd phalange	1	100	38.00	38.00	12
Other Toes	4	100	16.00	16.00	9
Total or Average (b)	194			24.69	4.96
B. Other Than Dismemberment Cases					
Hearing - One ear	10	37	52	19.24	3
Thumb (loss of use)	164	25	75	18.75	4
Index Finger (loss of use)	216	32	46	14.72	4
Middle Finger (loss of use)	152	29	30	8.70	3
Ring Finger (loss of use)	98	31	25	7.75	3
Little Finger (loss of use)	95	36	15	5.40	3
Great Toe (loss of use)	50	26	38	9.88	4
Other Toes (loss of use)	21	29	16	4.64	2
Other Major Members (loss of use)	1,196			34.43	10.24
Total or Average (b)	2,002			25.38	7.53
Average Major Member Healing Period (b)					7.30

(a) From "Workers Compensation Injury Table" published by NCCI, Inc.

(b) Total for column (1), Average for columns (4) and (5) using column (1) as weights.

EXHIBIT VI

CALCULATION OF DIFFERENCE IN BENEFITS
TEMPORARY TOTAL DISABILITY CASES

	Pennsylvania	U.S.L.
1. Waiting Period	7	3
2. Retroactive After	13	14
3. Total Days Disability Based on #1 (a)	2,495,765	2,776,360
4. Additional Days Disability Based on #2 (a)	294,735 (b)	117,735 (b)
5. Cost in Units of Weeks Wages $[(\#3+\#4)/7]$	398,643	413,442
6. Average Weekly Benefit (Exhibits IX,X)	598.07	613.49
7. Total Monetary Cost $(\#5*\#6)$	238,416,419	253,642,533
8. Ratio U.S.L. to Pennsylvania		1.064

(a) Exhibit VI-A

(b) #1 * Value from Exhibit VI-A based on #2

EXHIBIT VI-A

WORKERS COMPENSATION INJURY TABLE*
TEMPORARY TOTAL DISABILITY

(1) Duration (Days)	(2) # of Cases	(3) Summa. of (2) Upward	(4) Total Disability (Days)	(1) Duration (Days)	(2) # of Cases	(3) Summa. of (2) Upward	(4) Total Disability (Days)
1	8,973	103,371	3,060,329	22	854	28,879	1,909,602
2	8,198	94,398	2,956,958	23	910	28,025	1,880,723
3	6,236	86,200	2,862,560	24	961	27,115	1,852,698
4	7,077	79,964	2,776,360	25	762	26,154	1,825,583
5	6,437	72,887	2,696,396	26	590	25,392	1,799,429
6	5,156	66,450	2,623,509	27	467	24,802	1,774,037
7	4,854	61,294	2,557,059	28	1,480	24,335	1,749,235
8	2,351	56,440	2,495,765	29	532	22,855	1,724,900
9	2,407	54,089	2,439,325	30	604	22,323	1,702,045
10	2,865	51,682	2,385,236	31	655	21,719	1,679,722
11	2,665	48,817	2,333,554	32	603	21,064	1,658,003
12	2,156	46,152	2,284,737	33	437	20,461	1,636,939
13	1,891	43,996	2,238,585	34	376	20,024	1,616,478
14	2,860	42,105	2,194,589	35	894	19,648	1,596,454
15	1,563	39,245	2,152,484	36	389	18,754	1,576,806
16	1,621	37,682	2,113,239	37	390	18,365	1,558,052
17	1,703	36,061	2,075,557	38	442	17,975	1,539,687
18	1,486	34,358	2,039,496	39	424	17,533	1,521,712
19	1,096	32,872	2,005,138	40	287	17,109	1,504,179
20	888	31,776	1,972,266	41	274	16,822	1,487,070
21	2,009	30,888	1,940,490	42	1,160	16,548	1,470,248

*Excerpt from National Council on Compensation Insurance, Inc. 1976 Injury Table

EXHIBIT VII

CALCULATION OF AVERAGE WEEKLY BENEFIT - FATAL
PENNSYLVANIA ACT

1. Effective Date of Comp Law			1/1/2013		
2. Rate of Compensation (a)	0.2200	0.3200	0.4200	0.5100	0.5200
3. Minimum Weekly Benefit (SAWW * #2)	100.87	146.72	192.57	233.84	238.42
4. Maximum Weekly Benefit (SAWW)	917.00	917.00	917.00	917.00	917.00
5. Effective Wage for #3 (#3 / #2)	458.50	458.50	458.50	458.50	458.50
6. Effective Wage for #4 (#4 / #2)	4,168.18	2,865.63	2,183.33	1,798.04	1,763.46
7. Average Weekly Wage	917.00	917.00	917.00	917.00	917.00
8. Ratio to Average for #5 (#5 / #7)	0.500	0.500	0.500	0.500	0.500
9. Ratio to Average for #6 (#6 / #7)	4.545	3.125	2.381	1.961	1.923
10. Line #8 Adjusted to Nearest .01	0.50	0.50	0.50	0.50	0.50
11. Line #9 Adjusted to Nearest .01	4.55	3.13	2.38	1.96	1.92
12. B for #10	9.01	9.01	9.01	9.01	9.01
13. B for #11	99.99	99.60	97.10	91.99	91.22
14. #13 - #12	90.98	90.59	88.09	82.98	82.21
15. A for #10	21.83	21.83	21.83	21.83	21.83
16. A for #11	100.00	99.90	99.08	97.00	96.65
17. #8 * #15	10.92	10.92	10.92	10.92	10.92
18. #9 * (100 - #16)	0.00	0.31	2.20	5.89	6.44
19. Limit Factor as % (#14 + #17 + #18)	101.90	101.82	101.21	99.79	99.57
20. Effective Average Weekly Wage (#19 * #7 / 100)	934.42	933.69	928.10	915.07	913.06
21. Average Weekly Benefit (#20 * #2)	205.57	298.78	389.80	466.69	474.79

1. Effective Date of Comp Law			1/1/2013	
2. Rate of Compensation (a)	0.6000	0.6200	0.6400	0.6667
3. Minimum Weekly Benefit (SAWW * #2)	275.10	284.27	293.44	305.67
4. Maximum Weekly Benefit (SAWW)	917.00	917.00	917.00	917.00
5. Effective Wage for #3 (#3/#2)	458.50	458.50	458.50	458.50
6. Effective Wage for #4 (#4/#2)	1,528.33	1,479.03	1,432.81	1,375.50
7. Average Weekly Wage	917.00	917.00	917.00	917.00
8. Ratio to Average for #5 (#5/#7)	0.500	0.500	0.500	0.500
9. Ratio to Average for #6 (#6/#7)	1.667	1.613	1.562	1.500
10. Line #8 Adjusted to Nearest .01	0.50	0.50	0.50	0.50
11. Line #9 Adjusted to Nearest .01	1.67	1.61	1.56	1.50
12. B for #10	9.01	9.01	9.01	9.01
13. B for #11	84.73	82.68	80.80	78.34
14. #13 - #12	75.72	73.67	71.79	69.33
15. A for #10	21.83	21.83	21.83	21.83
16. A for #11	93.50	92.41	91.38	89.99
17. #8 * #15	10.92	10.92	10.92	10.92
18. #9 * (100-#16)	10.84	12.24	13.46	15.01
19. Limit Factor as % (#14+#17+#18)	97.48	96.83	96.17	95.26
20. Effective Average Weekly Wage (#19*#7/100)	893.89	887.93	881.88	873.53
21. Average Weekly Benefit (#20*#2)	536.33	550.52	564.40	582.35

(a) From Fatal Benefit Levels, Exhibit I

EXHIBIT VIII

CALCULATION OF AVERAGE WEEKLY BENEFIT - FATAL
U.S.L. ACT

		10/1/2012		
1. Effective Date of Comp Law				
2. Rate of Compensation (a)	0.2000	0.2500	0.5000	0.6667
3. Minimum Weekly Benefit	xx	xx	xx	xx
4. Maximum Weekly Benefit (2 * NAWW)	1,325.18	1,325.18	1,325.18	1,325.18
5. Effective Wage for #3 (NAWW)	662.59	662.59	662.59	662.59
6. Effective Wage for #4 (#4 / #2)	6,625.90	5,300.72	2,650.36	1,987.77
7. Average Weekly Wage	917.00	917.00	917.00	917.00
8. Ratio to Average for #3 (#2 * #5 / #7)	0.145	0.181	0.361	0.482
9. Ratio to Average for #5 (#5 / #7)	0.723	0.723	0.723	0.723
10. Ratio to Average for #6 (#6 / #7)	7.226	5.781	2.890	2.168
11. Line #8 Adjusted to Nearest .01	0.15	0.18	0.36	0.48
12. Line #9 Adjusted to Nearest .01	0.72	0.72	0.72	0.72
13. Line #10 Adjusted to Nearest .01	7.23	5.78	2.89	2.17
14. B for #11	0.16	0.29	2.88	7.91
15. B for #12	26.20	26.20	26.20	26.20
16. B for #13	100.00	100.00	99.24	95.13
17. #16 - #15	73.80	73.80	73.04	68.93
18. #14 / #2	0.79	1.16	5.76	11.87
19. A for #11	1.40	2.04	9.70	19.85
20. A for #12	46.10	46.10	46.10	46.10
21. A for #13	100.00	100.00	99.79	98.32
22. #9 * (#20 - #19)	32.32	31.86	26.32	18.98
23. #10 * (100 - #21)	0.00	0.00	0.59	3.64
24. Limit Factor as % (#17 + #18 + #22 + #23)	106.91	106.82	105.71	103.42
25. Effective Average Weekly Wage (#24 * #7 / 100)	980.36	979.54	969.36	948.36
26. Average Weekly Benefit (#25 * #2)	196.07	244.89	484.68	632.24

(a) From Fatal Benefit Levels, Exhibit I

EXHIBIT IX

CALCULATION OF AVERAGE WEEKLY BENEFIT - TOTAL DISABILITY
PENNSYLVANIA ACT

(I) Workers at Maximum	
1. Maximum Weekly Compensation	917.00
2. Statewide Average Weekly Wage	917.00
3. Minimum Wage to Receive Maximum Benefits	1,375.51
4. Ratio #3 / #2	1.500
5. #4 to Nearest 0.01	1.50
6. A for #5	89.99
7. 100 - #6	10.01
8. #1 * #7 / 100	91.7541
(II) Workers at 2/3 Wages	
9. Maximum Wage	1,375.50
10. Minimum Wage	687.76
11. #9 / #2	1.500
12. #10 / #2	0.750
13. #11 to Nearest 0.01	1.50
14. #12 to Nearest 0.01	0.75
15. B for #13	78.34
16. B for #14	28.70
17. #15 - #16	49.65
18. (2/3 * #17 * #2) / 100	303.4970
(III) Workers at 1/2 Maximum	
19. Maximum Wage	687.75
20. Minimum Wage	509.45
21. #19 / #2	0.750
22. #20 / #2	0.556
23. #21 to Nearest 0.01	0.75
24. #22 to Nearest 0.01	0.56
25. A for #23	49.08
26. A for #24	28.41
27. #25 - #26	20.67
28. #27 * 1/2 * #1 / 100	94.7505
(IV) Workers at 90% of Wages	
29. Maximum Wage	509.44
30. #29 / #2	0.556
31. #30 to Nearest 0.01	0.56
32. B for #31	13.09
33. #32 * #2 * 0.90 / 100	108.0689
34. #8 + #18 + #28 + #33	598.07

EXHIBIT X

CALCULATION OF AVERAGE WEEKLY BENEFIT - TOTAL DISABILITY
U. S. L. ACT

(I) Workers at Maximum	
1. Maximum Weekly Compensation	1,325.18
2. Statewide Average Weekly Wage	917.00
3. Minimum Wage to Receive Maximum Benefits	1,987.78
4. Ratio #3 / #2	2.168
5. #4 to Nearest 0.01	2.17
6. A for #5	98.32
7. 100 - #6	1.68
8. #1 * #7 / 100	22.2604
(II) Workers at 2/3 Wages	
9. Maximum Wage	1,987.77
10. Minimum Wage	496.95
11. #9 / #2	2.168
12. #10 / #2	0.542
13. #11 to Nearest 0.01	2.17
14. #12 to Nearest 0.01	0.54
15. B for #13	95.13
16. B for #14	11.67
17. #15 - #16	83.46
18. (2/3 * #17 * #2) / 100	510.2363
(III) Workers at 1/2 NAWW	
19. Maximum Wage	496.94
20. Minimum Wage	331.30
21. #19 / #2	0.542
22. #20 / #2	0.361
23. #21 to Nearest 0.01	0.54
24. #22 to Nearest 0.01	0.36
25. A for #23	26.18
26. A for #24	9.70
27. #25 - #26	16.48
28. #27 * 1/2 NAWW / 100	54.6058
(IV) Workers at 100% of Wages	
29. Maximum Wage	331.29
30. #29 / #2	0.361
31. #30 to Nearest 0.01	0.36
32. B for #31	2.88
33. #32 * #2 / 100	26.3914
34. #8 + #18 + #28 + #33	613.49

EXHIBIT XI

CALCULATION OF AVERAGE WEEKLY BENEFIT - SCHEDULE PERMANENT PARTIAL DISABILITY

Pennsylvania

	(1) <u>Wage Interval</u>		(2) % of Avg. Wage <u>(1) / AWW</u>	(3) % in Wage Bracket <u>Workers</u>	(4) <u>Wages</u>	(5) Avg. Wage <u>AWW*((4)/(3))</u>	(6) Avg. Weekly <u>Benefit</u>	
Under	687.75 (a)		0.00 - 0.75	49.08	28.70	536.22	458.50	(Min)
Between	687.75 and 1,375.50 (b)		0.75 - 1.50	40.91	49.64	1112.68	741.79	[(5)*.6667]
Over	1,375.50		Over 1.50	10.01	21.66	1984.24	917.00	(Max)
$\frac{\text{SUM OF } ((3) * (6))}{100} = 620.29$								

(a) $1/2 \text{ AWW} / (.6667) = 458.50 / 0.6667 = 687.75$
 (b) $\text{AWW} / (.6667) = 917.00 / 0.6667 = 1,375.50$

U. S. L.

	(1) <u>Wage Interval</u>		(2) % of Avg. Wage <u>(1) / AWW</u>	(3) % in Wage Bracket <u>Workers</u>	(4) <u>Wages</u>	(5) Avg. Wage <u>AWW*((4)/(3))</u>	(6) Avg. Weekly <u>Benefit</u>	
Under	1,987.77 (a)		0.00 - 2.17	98.32	95.13	887.26	591.51	[(5)*.6667]
Over	1,987.77		Over 2.17	1.68	4.87	2657.72	1325.18	(Max)
2.17								
$\frac{\text{SUM OF } ((3) * (6))}{100} = 603.83$								

(a) $2 \text{ NAWW} / (.6667) = 1,325.18 / 0.6667 = 1,987.77$

EXHIBIT XII

CALCULATION OF AVERAGE WEEKLY BENEFIT
NON-SCHEDULE PERMANENT PARTIAL

	<u>Pennsylvania</u>		<u>U. S. L.</u>	
	Major	Minor	Major	Minor
1. Class of Injury				
2. Effective Date of Comp Law	1/1/2013		10/1/2012	
3. Rate of Compensation	0.2667	0.1667	0.2667	0.1667
4. Minimum Weekly Benefit	0.00	0.00	0.00	0.00
5. Maximum Weekly Benefit	917.00	917.00	1,325.18	1,325.18
6. Effective Weekly Wage for Min. (#4 / #3)	0.00	0.00	0.00	0.00
7. Effective Weekly Wage for Max. (#5 / #3)	3,438.32	5,500.90	4,968.80	7,949.49
8. Average Weekly Wage	917.00	917.00	917.00	917.00
9. Ratio to AWW for Min. (#6 / #8)	0.000	0.000	0.000	0.000
10. Ratio to AWW for Max. (#7 / #8)	3.750	5.999	5.419	8.669
11. Line #9 Adjusted to Nearest .01	0.00	0.00	0.00	0.00
12. Line #10 Adjusted to Nearest .01	3.75	6.00	5.42	8.67
13. B for #11	0.00	0.00	0.00	0.00
14. B for #12	99.93	100.00	100.00	100.00
15. #14 - #13	99.93	100.00	100.00	100.00
16. A for #11	0.00	0.00	0.00	0.00
17. A for #12	99.99	100.00	100.00	100.00
18. 100 - #17	0.01	0.00	0.00	0.00
19. #9 * #16	0.00	0.00	0.00	0.00
20. #10 * #18	0.05	0.00	0.00	0.00
21. Limit Factor as % (#15 + #19 + #20)	99.98	100.00	100.00	100.00
22. Effective Average Weekly Wage (#21 * #8 / 100)	916.82	917.00	917.00	917.00
23. Average Weekly Benefit (#22 * #3)	244.52	152.86	244.56	152.86

EXHIBIT XIII

PENNSYLVANIA WAGE DISTRIBUTION TABLE*

R = Ratio to Average Wage

A = Percentage of workers receiving not more than the percentage of the average wage indicated by Column R

B = Percentage of wages received by the percentage of workers in Column A

R	A	B	R	A	B	R	A	B
0.05	0.2629	0.0097	2.40	99.1293	97.2512	4.75	99.9994	99.9966
0.10	0.7019	0.0511	2.45	99.2465	97.5788	4.80	99.9995	99.9971
0.15	1.4017	0.1573	2.50	99.3483	97.8696	4.85	99.9996	99.9975
0.20	2.4661	0.3798	2.55	99.4368	98.1272	4.90	99.9996	99.9978
0.25	4.0117	0.7915	2.60	99.5136	98.3552	4.95	99.9997	99.9982
0.30	6.1536	1.4848	2.65	99.5802	98.5567	5.00	99.9997	99.9984
0.35	8.9867	2.5644	2.70	99.6379	98.7347	5.05	99.9998	99.9986
0.40	12.5636	4.1325	2.75	99.6878	98.8916	5.10	99.9998	99.9988
0.45	16.8738	6.2693	2.80	99.7310	99.0299	5.15	99.9998	99.9990
0.50	21.8311	9.0111	2.85	99.7684	99.1516	5.20	99.9999	99.9992
0.55	27.2730	12.3330	2.90	99.8007	99.2586	5.25	99.9999	99.9993
0.60	32.9749	16.1405	2.95	99.8286	99.3526	5.30	99.9999	99.9994
0.65	38.6771	20.2752	3.00	99.8526	99.4351	5.35	99.9999	99.9995
0.70	44.1200	24.5339	3.05	99.8733	99.5074	5.40	99.9999	99.9995
0.75	49.0787	28.6982	3.10	99.8912	99.5708	5.45	99.9999	99.9996
0.80	53.4443	32.6158	3.15	99.9066	99.6262	5.50	100.0000	99.9997
0.85	57.5332	36.5215	3.20	99.9199	99.6748	5.55	100.0000	99.9997
0.90	61.3986	40.4361	3.25	99.9313	99.7171	5.60	100.0000	99.9998
0.95	65.0267	44.3192	3.30	99.9411	99.7542	5.65	100.0000	99.9998
1.00	68.4106	48.1354	3.35	99.9495	99.7865	5.70	100.0000	99.9998
1.05	71.5486	51.8548	3.40	99.9567	99.8146	5.75	100.0000	99.9999
1.10	74.4434	55.4526	3.45	99.9630	99.8392	5.80	100.0000	99.9999
1.15	77.1013	58.9090	3.50	99.9683	99.8605	5.85	100.0000	99.9999
1.20	79.5313	62.2087	3.55	99.9729	99.8791	5.90	100.0000	99.9999
1.25	81.7441	65.3408	3.60	99.9768	99.8953	5.95	100.0000	99.9999
1.30	83.7518	68.2982	3.65	99.9802	99.9093	6.00	100.0000	99.9999
1.35	85.5674	71.0769	3.70	99.9830	99.9216	6.05	100.0000	99.9999
1.40	87.2040	73.6761	3.75	99.9855	99.9321	6.10	100.0000	100.0000
1.45	88.6752	76.0971	3.80	99.9876	99.9413	6.15	100.0000	100.0000
1.50	89.9941	78.3433	3.85	99.9894	99.9493	6.20	100.0000	100.0000
1.55	91.1734	80.4198	3.90	99.9910	99.9562	6.25	100.0000	100.0000
1.60	92.2256	82.3329	3.95	99.9923	99.9622	6.30	100.0000	100.0000
1.65	93.1622	84.0898	4.00	99.9934	99.9674	6.35	100.0000	100.0000
1.70	93.9942	85.6984	4.05	99.9944	99.9719	6.40	100.0000	100.0000
1.75	94.7319	87.1671	4.10	99.9952	99.9757	6.45	100.0000	100.0000
1.80	95.3847	88.5044	4.15	99.9959	99.9791	6.50	100.0000	100.0000
1.85	95.9615	89.7191	4.20	99.9965	99.9820	6.55	100.0000	100.0000
1.90	96.4702	90.8197	4.25	99.9970	99.9845	6.60	100.0000	100.0000
1.95	96.9182	91.8148	4.30	99.9975	99.9866	6.65	100.0000	100.0000
2.00	97.3122	92.7124	4.35	99.9979	99.9885	6.70	100.0000	100.0000
2.05	97.6581	93.5206	4.40	99.9982	99.9901	6.75	100.0000	100.0000
2.10	97.9615	94.2469	4.45	99.9984	99.9915	6.80	100.0000	100.0000
2.15	98.2272	94.8982	4.50	99.9987	99.9927	6.85	100.0000	100.0000
2.20	98.4597	95.4814	4.55	99.9989	99.9937	6.90	100.0000	100.0000
2.25	98.6628	96.0027	4.60	99.9990	99.9946	6.95	100.0000	100.0000
2.30	98.8401	96.4679	4.65	99.9992	99.9954	7.00	100.0000	100.0000
2.35	98.9946	96.8824	4.70	99.9993	99.9960			

*Based on data from the Department of Labor and Industry.