

RHODE ISLAND



TECHNICAL SUPPLEMENT

PROPOSED EFFECTIVE AUGUST 1, 2014



November 25, 2013

Honorable Paul McGreevy
Director
State of Rhode Island and Providence Plantations
Department of Business Regulation
Insurance Division
1511 Pontiac Ave
Cranston, RI 02920

Attention: Paula Pallozzi, Chief Property & Casualty Insurance Rate Analyst

**Re: Technical Supplement for Rhode Island Workers Compensation Advisory
Loss Costs and Rating Values Filing – Effective August 1, 2014**

Dear Director McGreevy:

We are enclosing for your review, supporting actuarial and statistical data used to produce the results of the proposed August 1, 2014 advisory loss costs and rating values filing.

As always, if you should have any questions or need additional information, please do not hesitate to contact me at (802) 454-1800 or Karen Ayres at (201) 386-2636.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Laura Backus Hall". The signature is fluid and cursive, with a prominent loop at the end.

Laura Backus Hall, CPCU
State Relations Executive



RHODE ISLAND

WORKERS COMPENSATION FILING – AUGUST 1, 2014

Actuarial Certification and Disclosure Statement

Actuarial Certification

I, Karen Ayres, am a Director and Actuary for the National Council on Compensation Insurance, Inc. I am a Fellow of the Casualty Actuarial Society and a member of the American Academy of Actuaries, and I meet the Qualification Standards of the American Academy of Actuaries to provide the actuarial report contained herein.

The information contained in this report has been prepared under my direction in accordance with applicable Actuarial Standards of Practice as promulgated by the Actuarial Standards Board. The Actuarial Standards Board is vested by the U.S.-based actuarial organizations with the responsibility for promulgating Actuarial Standards of Practice for actuaries providing professional services in the United States. Each of these organizations requires its members, through its Code of Professional Conduct, to observe the Actuarial Standards of Practice when practicing in the United States.

A handwritten signature in black ink that reads "Karen J. Ayres". The signature is written in a cursive, flowing style.

Karen Ayres, FCAS, MAAA
Director and Actuary
Actuarial and Economic Services

Documents Comprising the Report

There are two documents comprising the full actuarial report:

- The loss cost filing includes a description of the key components reviewed in determining the overall average loss cost level change, the proposed loss costs and experience rating values by class code, and updated miscellaneous values and retrospective rating values.
- The Technical Supplement shows detailed calculations supporting the information conveyed in the filing document.



RHODE ISLAND

WORKERS COMPENSATION FILING – AUGUST 1, 2014

Actuarial Certification and Disclosure Statement

Data Sources and Dates

The overall average loss cost level change is based on a review of Financial Call Data, which is aggregated workers compensation data reported to NCCI annually. In this filing, Financial Call Data submissions received after August 19, 2013 were not considered for inclusion in the analysis.

Loss cost level changes at the classification code level are based on Unit Statistical Data, which is the audited exposure, premium and loss information reported to NCCI on a policy level. In this filing, Unit Statistical Data submissions received after September 20, 2013 were not considered for inclusion in the analysis.

In some areas, NCCI's analysis also relies on other data sources, which are reviewed for reasonableness and are referenced in the filing where applicable.

This filing was prepared as of October 30, 2013. Therefore, events that occurred after this date that may have a material impact on workers compensation costs in this jurisdiction have not been considered in the analysis.

Methodology and Assumptions

The methodology and assumptions used in this filing, detailed in the Technical Supplement, may not be applicable to or relevant for another purpose, including but not limited to NCCI filings in other jurisdictions.

Generally, the methodology used in this filing is not materially different from previous NCCI filings approved in Rhode Island.



RHODE ISLAND

WORKERS COMPENSATION FILING – AUGUST 1, 2014

Actuarial Certification and Disclosure Statement

Risks and Uncertainty

This filing includes assumptions and projections concerning the future. As with any prospective analysis, there exists estimation uncertainty in these assumptions and projections. Areas of this analysis subject to estimation uncertainty that could have a material impact on the final results include the following:

- Projection of future loss development
- Selection of loss ratio trends
- Potential impact of changes to laws and/or regulations

In addition, any future changes to workers compensation law or regulations that apply retroactively to policies or benefit claims on policies in the proposed effective period may have a significant impact on the adequacy of the [loss costs/rates] proposed in this filing.



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RHODE ISLAND

TABLE OF CONTENTS

Summary of Proposed Changes

Exhibit I - Determination of Indicated Loss Cost Level Change

Exhibit II - Workers Compensation Loss Adjustment Expense Provision

Appendix A - Factors Underlying Advisory Loss Cost Level Change

- A-I - Determination of Policy Year On-level Factors
- A-II - Determination of Premium and Losses Developed to an Ultimate Report
- A-III - Policy Year Trend Factors
- A-IV - Carriers Not Included in Policy Year Experience
- A-V - Derivation of Industry Group Differentials

Appendix B - Derivation of Voluntary Loss Costs

- B-I - Distribution of Loss Cost Level Change to Occupational Classification
- B-II - Adjustments to Obtain Advisory Loss Costs
- B-III - Derivation of Proposed Advisory Loss Cost - Code 8810
- B-IV - Determination and Distribution of Premium Level Change to "F" Classifications

Appendix C - Memoranda for Laws and Assessments

- C-I - Impact Due to the Change in the Minimum and Maximum Weekly Benefit, Effective September 1, 2013
- C-II - Longshore and Harbor Workers' Compensation Act - October 1, 2012 Benefit Change
- C-III - Longshore and Harbor Workers' Compensation Act Assessment



RHODE ISLAND

SUMMARY OF PROPOSED CHANGES

Proposed Effective Date

August 1, 2014

I. Industrial Classifications

Overall Proposed Change in Loss Cost Level

New and Renewal Policies +3.0%

By Component

Change in Experience, Trend and Benefits +2.6%

Change in Loss Based Expenses +0.4%

Overall Loss Cost Level Change +3.0%

By Industry Group

Manufacturing -0.5%

Contracting +2.9%

Office & Clerical +0.6%

Goods & Services +5.2%

Miscellaneous +3.1%

Overall +3.0%

II. "F" Classifications

Overall Proposed Change in Voluntary Loss Cost Level

New and Renewal Policies +5.9%



RHODE ISLAND

EXHIBIT I

Determination of Indicated Loss Cost Level Change

Section A - Policy Year 2011 Experience

Premium:

(1) Standard Earned Premium Developed to Ultimate (Appendix A-II)	\$129,025,961
(2) Premium On-level Factor (Appendix A-I)	1.120
(3) Premium Available for Benefit Costs = (1) x (2)	\$144,509,076

Indemnity Benefit Cost:

(4) Limited Indemnity Losses Developed to Ultimate (Appendix A-II)	\$76,536,899
(5) Indemnity Loss On-level Factor (Appendix A-I)	1.015
(6) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(7) Composite Adjustment Factor = (5) x (6)	1.200
(8) Adjusted Limited Indemnity Losses = (4) x (7)	\$91,844,279
(9) Adjusted Limited Indemnity Cost Ratio excluding Trend and Benefits = (8) / (3)	0.636
(10) Factor to Reflect Indemnity Trend (Appendix A-III)	1.000
(11) Projected Limited Indemnity Cost Ratio = (9) x (10)	0.636
(12) Factor to Adjust Indemnity Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(13) Projected Indemnity Cost Ratio = (11) x (12)	0.665
(14) Factor to Reflect Proposed Changes in Indemnity Benefits (Appendix C)	1.001
(15) Projected Indemnity Cost Ratio including Benefit Changes = (13) x (14)	0.666

Medical Benefit Cost:

(16) Limited Medical Losses Developed to Ultimate (Appendix A-II)	\$38,482,413
(17) Medical Loss On-level Factor (Appendix A-I)	1.000
(18) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(19) Composite Adjustment Factor = (17) x (18)	1.182
(20) Adjusted Limited Medical Losses = (16) x (19)	\$45,486,212
(21) Adjusted Limited Medical Cost Ratio excluding Trend and Benefits = (20) / (3)	0.315
(22) Factor to Reflect Medical Trend (Appendix A-III)	1.018
(23) Projected Limited Medical Cost Ratio = (21) x (22)	0.321
(24) Factor to Adjust Medical Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(25) Projected Medical Cost Ratio = (23) x (24)	0.335
(26) Factor to Reflect Proposed Changes in Medical Benefits (Appendix C)	1.000
(27) Projected Medical Cost Ratio including Benefit Changes = (25) x (26)	0.335

Total Benefit Cost:

(28) Indicated Change Based on Experience, Trend and Benefits = (15) + (27)	1.001
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RHODE ISLAND

EXHIBIT I

Determination of Indicated Loss Cost Level Change

Section B - Policy Year 2010 Experience

Premium:

(1) Standard Earned Premium Developed to Ultimate (Appendix A-II)	\$123,169,689
(2) Premium On-level Factor (Appendix A-I)	1.144
(3) Premium Available for Benefit Costs = (1) x (2)	\$140,906,124

Indemnity Benefit Cost:

(4) Limited Indemnity Losses Developed to Ultimate (Appendix A-II)	\$78,274,737
(5) Indemnity Loss On-level Factor (Appendix A-I)	1.025
(6) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(7) Composite Adjustment Factor = (5) x (6)	1.212
(8) Adjusted Limited Indemnity Losses = (4) x (7)	\$94,868,981
(9) Adjusted Limited Indemnity Cost Ratio excluding Trend and Benefits = (8) / (3)	0.673
(10) Factor to Reflect Indemnity Trend (Appendix A-III)	1.000
(11) Projected Limited Indemnity Cost Ratio = (9) x (10)	0.673
(12) Factor to Adjust Indemnity Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(13) Projected Indemnity Cost Ratio = (11) x (12)	0.703
(14) Factor to Reflect Proposed Changes in Indemnity Benefits (Appendix C)	1.001
(15) Projected Indemnity Cost Ratio including Benefit Changes = (13) x (14)	0.704

Medical Benefit Cost:

(16) Limited Medical Losses Developed to Ultimate (Appendix A-II)	\$40,217,311
(17) Medical Loss On-level Factor (Appendix A-I)	1.000
(18) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(19) Composite Adjustment Factor = (17) x (18)	1.182
(20) Adjusted Limited Medical Losses = (16) x (19)	\$47,536,862
(21) Adjusted Limited Medical Cost Ratio excluding Trend and Benefits = (20) / (3)	0.337
(22) Factor to Reflect Medical Trend (Appendix A-III)	1.023
(23) Projected Limited Medical Cost Ratio = (21) x (22)	0.345
(24) Factor to Adjust Medical Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(25) Projected Medical Cost Ratio = (23) x (24)	0.361
(26) Factor to Reflect Proposed Changes in Medical Benefits (Appendix C)	1.000
(27) Projected Medical Cost Ratio including Benefit Changes = (25) x (26)	0.361

Total Benefit Cost:

(28) Indicated Change Based on Experience, Trend and Benefits = (15) + (27)	1.065
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RHODE ISLAND

EXHIBIT I

Determination of Indicated Loss Cost Level Change

Section C - Policy Year 2009 Experience

Premium:

(1) Standard Earned Premium Developed to Ultimate (Appendix A-II)	\$122,899,382
(2) Premium On-level Factor (Appendix A-I)	1.139
(3) Premium Available for Benefit Costs = (1) x (2)	\$139,982,396

Indemnity Benefit Cost:

(4) Limited Indemnity Losses Developed to Ultimate (Appendix A-II)	\$73,367,967
(5) Indemnity Loss On-level Factor (Appendix A-I)	1.026
(6) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(7) Composite Adjustment Factor = (5) x (6)	1.213
(8) Adjusted Limited Indemnity Losses = (4) x (7)	\$88,995,344
(9) Adjusted Limited Indemnity Cost Ratio excluding Trend and Benefits = (8) / (3)	0.636
(10) Factor to Reflect Indemnity Trend (Appendix A-III)	1.000
(11) Projected Limited Indemnity Cost Ratio = (9) x (10)	0.636
(12) Factor to Adjust Indemnity Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(13) Projected Indemnity Cost Ratio = (11) x (12)	0.665
(14) Factor to Reflect Proposed Changes in Indemnity Benefits (Appendix C)	1.001
(15) Projected Indemnity Cost Ratio including Benefit Changes = (13) x (14)	0.666

Medical Benefit Cost:

(16) Limited Medical Losses Developed to Ultimate (Appendix A-II)	\$38,000,689
(17) Medical Loss On-level Factor (Appendix A-I)	1.000
(18) Factor to Include Loss-based Expenses (Exhibit II)	1.182
(19) Composite Adjustment Factor = (17) x (18)	1.182
(20) Adjusted Limited Medical Losses = (16) x (19)	\$44,916,814
(21) Adjusted Limited Medical Cost Ratio excluding Trend and Benefits = (20) / (3)	0.321
(22) Factor to Reflect Medical Trend (Appendix A-III)	1.028
(23) Projected Limited Medical Cost Ratio = (21) x (22)	0.330
(24) Factor to Adjust Medical Cost Ratio to an Unlimited Basis (Appendix A-II)	1.045
(25) Projected Medical Cost Ratio = (23) x (24)	0.345
(26) Factor to Reflect Proposed Changes in Medical Benefits (Appendix C)	1.000
(27) Projected Medical Cost Ratio including Benefit Changes = (25) x (26)	0.345

Total Benefit Cost:

(28) Indicated Change Based on Experience, Trend and Benefits = (15) + (27)	1.011
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RHODE ISLAND

EXHIBIT I

Determination of Indicated Loss Cost Level Change

Section D - Indicated Change Based on Experience, Trend and Benefits

(1) Policy Year 2011 Indicated Change Based on Experience, Trend, and Benefits	1.001
(2) Policy Year 2010 Indicated Change Based on Experience, Trend, and Benefits	1.065
(3) Policy Year 2009 Indicated Change Based on Experience, Trend, and Benefits	1.011
(4) Indicated Change Based on Experience, Trend and Benefits = $[(1)+(2)+(3)] / 3$	1.026

Section E - Application of the Change in Loss-based Expenses

(1) Indicated Loss Cost Level Change	1.026
(2) Effect of the Change in Loss-based Expenses (Exhibit II)	1.004
(3) Indicated Change Modified to Reflect the Change in Loss-based Expenses = (1) x (2)	1.030



RHODE ISLAND

EXHIBIT I

Determination of Indicated Loss Cost Level Change

Section F - Distribution of Overall Loss Cost Level Change to Industry Groups

Industry Group Differentials (Appendix A-V):

Manufacturing	0.966
Contracting	0.999
Office & Clerical	0.977
Goods & Services	1.021
Miscellaneous	1.001

Applying these industry group differentials to the final overall loss cost level change produces the changes in loss cost level proposed for each group as shown:

Industry Group	(1) Final Overall Loss Cost Level Change	(2) Industry Group Differential	(3) = (1) x (2) Final Loss Cost Level Change by Industry Group	
Manufacturing	1.030	0.966	0.995	(-0.5%)
Contracting	1.030	0.999	1.029	(+2.9%)
Office & Clerical	1.030	0.977	1.006	(+0.6%)
Goods & Services	1.030	1.021	1.052	(+5.2%)
Miscellaneous	1.030	1.001	1.031	(+3.1%)
Overall	1.030	1.000	1.030	(+3.0%)



RHODE ISLAND

EXHIBIT II

Workers Compensation Loss-based Expense Provision

Section A - Determination of Loss Adjustment Expense Provision

NCCI has computed the loss adjustment expense allowance on an accident year basis using data obtained from the NCCI Call for Loss Adjustment Expense. For this filing, NCCI proposes a 18.7% loss adjustment expense allowance as a percentage of incurred losses.

Accident Year	Accident Year Developed LAE Ratio	Accident Year Developed DCCE Ratio	Accident Year Developed AOE Ratio
2008	18.4%	11.3%	7.1%
2009	19.4%	11.7%	7.7%
2010	19.3%	12.0%	7.3%
2011	19.5%	12.5%	7.0%
2012	20.3%	12.9%	7.4%
Countrywide selected:	19.9%	12.7%	7.2%
Rhode Island selected: (11.5% = 12.7% x 0.904)	18.7%	11.5%	7.2%

Section B - Determination of Rhode Island DCCE Relativity

(1a) Rhode Island paid losses (in '000s)	156,384
(1b) Rhode Island paid DCCE (in '000s)	16,206
(1c) Ratio (1b)/(1a)	10.4%
(2a) Countrywide paid losses (in '000s)	68,276,797
(2b) Countrywide paid DCCE (in '000s)	7,882,729
(2c) Ratio (2b)/(2a)	11.5%
(3) Rhode Island DCCE relativity (1c)/(2c)	0.904

Section C - Proposed Change in Rhode Island Loss Adjustment Expense Provision

(1) Current Rhode Island LAE Provision	18.2%
(2) Proposed Rhode Island LAE Provision	18.7%
(3) Proposed Change in LAE Provision	1.004
= [1.0 + (2)] / [1.0 + (1)] - 1	0.4%

Notes

NAIC Annual Statement data is used in the above calculations. The countrywide figures exclude state funds.



RHODE ISLAND

APPENDIX A-I

Determination of Policy Year On-level Factors

Section A - Factor Adjusting 2011 Policy Year Premium to Present Level

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Date	Loss Cost Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)	Off-balance Adjustment Factor*	Premium Adjustment Factor (5)x(6)
NR 06/01/10	Base	1.000	0.424	0.424	1.137	0.985	1.120
NR 06/01/11	1.036	1.036	0.576	0.597			
NR 07/01/12	1.053	1.091					
NR 01/01/13	0.991	1.081					
NR 08/01/13	1.074	1.161					
				1.021			

Section B - Factor Adjusting 2011 Policy Year Indemnity Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/10	Base	1.000	0.271	0.271	1.015
09/01/11	1.001	1.001	0.281	0.281	
01/01/12	1.022	1.023	0.395	0.404	
09/01/12	1.002	1.025	0.053	0.054	
				1.010	

Section C - Factor Adjusting 2011 Policy Year Medical Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/10	Base	1.000	0.271	0.271	1.000
09/01/11	1.000	1.000	0.281	0.281	
01/01/12	1.000	1.000	0.395	0.395	
09/01/12	1.000	1.000	0.053	0.053	
				1.000	

NR New and renewal business.

* 0.985 = 0.979 / 0.994 = (Targeted Off-balance) / (Off-balance for Policy Year 2011)



RHODE ISLAND

APPENDIX A-I

Determination of Policy Year On-level Factors

Section D - Factor Adjusting 2010 Policy Year Premium to Present Level

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Date	Loss Cost Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)	Off-balance Adjustment Factor*	Premium Adjustment Factor (5)x(6)
NR 06/01/08	Base	1.000	0.424	0.424	1.156	0.990	1.144
NR 06/01/10	0.991	0.991	0.576	0.571			
NR 06/01/11	1.036	1.027					
NR 07/01/12	1.053	1.081					
NR 01/01/13	0.991	1.071					
NR 08/01/13	1.074	1.150					
				0.995			

Section E - Factor Adjusting 2010 Policy Year Indemnity Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/09	Base	1.000	0.271	0.271	1.025
09/01/10	1.000	1.000	0.676	0.676	
09/01/11	1.001	1.001	0.053	0.053	
01/01/12	1.022	1.023			
09/01/12	1.002	1.025			
				1.000	

Section F - Factor Adjusting 2010 Policy Year Medical Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/09	Base	1.000	0.271	0.271	1.000
09/01/10	1.000	1.000	0.676	0.676	
09/01/11	1.000	1.000	0.053	0.053	
01/01/12	1.000	1.000			
09/01/12	1.000	1.000			
				1.000	

NR New and renewal business.

* $0.990 = 0.979 / 0.989 = (\text{Targeted Off-balance}) / (\text{Off-balance for Policy Year 2010})$



RHODE ISLAND

APPENDIX A-I

Determination of Policy Year On-level Factors

Section G - Factor Adjusting 2009 Policy Year Premium to Present Level

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Date	Loss Cost Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)	Off-balance Adjustment Factor*	Premium Adjustment Factor (5)x(6)
NR 06/01/08	Base	1.000	1.000	1.000	1.150	0.990	1.139
NR 06/01/10	0.991	0.991					
NR 06/01/11	1.036	1.027					
NR 07/01/12	1.053	1.081					
NR 01/01/13	0.991	1.071					
NR 08/01/13	1.074	1.150					
				1.000			

Section H - Factor Adjusting 2009 Policy Year Indemnity Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/08	Base	1.000	0.271	0.271	1.026
09/01/09	1.002	1.002	0.676	0.677	
09/01/10	1.000	1.002	0.053	0.053	
09/01/11	1.001	1.003			
01/01/12	1.022	1.025			
09/01/12	1.002	1.027			
				1.001	

Section I - Factor Adjusting 2009 Policy Year Medical Losses To Present Benefit Level

	(1)	(2)	(3)	(4)	(5)
Date	Benefit Level Change	Cumulative Index	Weight	Product (2)x(3)	Adj. Factor Present Index/ Sum Column (4)
09/01/08	Base	1.000	0.271	0.271	1.000
09/01/09	1.000	1.000	0.676	0.676	
09/01/10	1.000	1.000	0.053	0.053	
09/01/11	1.000	1.000			
01/01/12	1.000	1.000			
09/01/12	1.000	1.000			
				1.000	

NR New and renewal business.

* 0.990 = 0.979 / 0.989 = (Targeted Off-balance) / (Off-balance for Policy Year 2009)



RHODE ISLAND

APPENDIX A-I

Determination of Policy Year On-level Factors

Section J - Premium Adjustment to Average Expected Mod

Rating Year	(1) Average Intrastate Mod	(2) Average Interstate Mod	(3) Average Mod Combined Rated Risk	(4) Weighted Average Off-Balance	(5) Average Mod Expected	(6)= (5)/(4) Policy Year Adjustment Factor
1997	0.934	0.923	0.930	0.933	0.979	1.049
1998	0.955	0.927	0.946	0.949	0.979	1.032
1999	1.041	0.978	1.019	1.018	0.979	0.962
2000	1.006	0.969	0.994	0.994	0.979	0.985
2001	1.010	0.998	1.006	1.006	0.979	0.973
2002	1.010	1.019	1.013	1.012	0.979	0.967
2003	1.018	1.005	1.013	1.012	0.979	0.967
2004	0.991	1.008	0.997	0.997	0.979	0.982
2005	0.976	1.017	0.991	0.992	0.979	0.987
2006	0.974	0.991	0.980	0.981	0.979	0.998
2007	0.985	0.991	0.987	0.988	0.979	0.991
2008	0.985	0.998	0.989	0.990	0.979	0.989
2009	0.995	0.975	0.988	0.989	0.979	0.990
2010	0.992	0.982	0.988	0.989	0.979	0.990
2011	0.999	0.986	0.994	0.994	0.979	0.985
2012	0.998	0.986	0.993	0.993	0.979	0.986



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Premium and Loss Summary Valued as of 12/31/2012

Policy Year 2011

(1) Standard Earned Premium	\$129,804,790
(2) Factor to Develop Premium to Ultimate	0.994
(3) Standard Earned Premium Developed to Ultimate = (1)x(2)	\$129,025,961
(4) Limited Indemnity Paid Losses	\$26,256,226
(5) Limited Indemnity Paid Development Factor to Ultimate	2.915
(6) Limited Indemnity Paid Losses Developed to Ultimate = (4)x(5)	\$76,536,899
(7) Limited Medical Paid Losses	\$23,565,470
(8) Limited Medical Paid Development Factor to Ultimate	1.633
(9) Limited Medical Paid Losses Developed to Ultimate = (7)x(8)	\$38,482,413

Policy Year 2010

(1) Standard Earned Premium	\$123,046,642
(2) Factor to Develop Premium to Ultimate	1.001
(3) Standard Earned Premium Developed to Ultimate = (1)x(2)	\$123,169,689
(4) Limited Indemnity Paid Losses	\$46,261,665
(5) Limited Indemnity Paid Development Factor to Ultimate	1.692
(6) Limited Indemnity Paid Losses Developed to Ultimate = (4)x(5)	\$78,274,737
(7) Limited Medical Paid Losses	\$31,817,493
(8) Limited Medical Paid Development Factor to Ultimate	1.264
(9) Limited Medical Paid Losses Developed to Ultimate = (7)x(8)	\$40,217,311

Policy Year 2009

(1) Standard Earned Premium	\$122,899,382
(2) Factor to Develop Premium to Ultimate	1.000
(3) Standard Earned Premium Developed to Ultimate = (1)x(2)	\$122,899,382
(4) Limited Indemnity Paid Losses	\$55,413,872
(5) Limited Indemnity Paid Development Factor to Ultimate	1.324
(6) Limited Indemnity Paid Losses Developed to Ultimate = (4)x(5)	\$73,367,967
(7) Limited Medical Paid Losses	\$32,730,998
(8) Limited Medical Paid Development Factor to Ultimate	1.161
(9) Limited Medical Paid Losses Developed to Ultimate = (7)x(8)	\$38,000,689



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section A - Premium Development Factors

<u>Policy Year</u>	<u>1st/2nd</u>	<u>Policy Year</u>	<u>2nd/3rd</u>	<u>Policy Year</u>	<u>3rd/4th</u>	<u>Policy Year</u>	<u>4th/5th</u>
2008	0.984	2007	1.000	2006	1.000	2005	1.000
2009	0.993	2008	1.000	2007	1.000	2006	1.000
2010	1.002	2009	1.003	2008	1.001	2007	1.000
Average	0.993	Average	1.001	Average	1.000	Average	1.000

Summary of Premium Development Factors

<u>1st/5th</u>	<u>2nd/5th</u>	<u>3rd/5th</u>	<u>4th/5th</u>
0.994	1.001	1.000	1.000



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section B - Limited Indemnity Paid Loss Development Factors

Policy Year	<u>1st/2nd</u>	Policy Year	<u>2nd/3rd</u>	Policy Year	<u>3rd/4th</u>	Policy Year	<u>4th/5th</u>
2006	1.695	2005	1.268	2004	1.096	2003	1.058
2007	1.694	2006	1.252	2005	1.101	2004	1.053
2008	1.757	2007	1.276	2006	1.102	2005	1.038
2009	1.720	2008	1.290	2007	1.114	2006	1.061
2010	1.754	2009	1.303	2008	1.128	2007	1.087
Average*	1.723	Average*	1.278	Average*	1.106	Average*	1.057

Policy Year	<u>5th/6th</u>	Policy Year	<u>6th/7th</u>	Policy Year	<u>7th/8th</u>	Policy Year	<u>8th/9th</u>
2002	1.029	2001	1.029	2000	1.013	1999	1.011
2003	1.027	2002	1.021	2001	1.008	2000	1.004
2004	1.019	2003	1.024	2002	1.007	2001	1.007
2005	1.021	2004	1.029	2003	1.017	2002	1.008
2006	1.042	2005	1.019	2004	1.009	2003	1.008
Average*	1.026	Average*	1.025	Average*	1.010	Average*	1.008

Policy Year	<u>9th/10th</u>	Policy Year	<u>10th/11th</u>	Policy Year	<u>11th/12th</u>	Policy Year	<u>12th/13th</u>
1998	1.010	1997	1.013	1996	1.005	1995	1.007
1999	0.999	1998	1.007	1997	1.011	1996	1.004
2000	1.002	1999	1.007	1998	1.001	1997	1.003
2001	1.004	2000	1.006	1999	1.009	1998	1.004
2002	1.003	2001	1.004	2000	1.005	1999	1.008
Average*	1.003	Average*	1.007	Average*	1.006	Average*	1.005

Policy Year	<u>13th/14th</u>	Policy Year	<u>14th/15th</u>	Policy Year	<u>15th/16th**</u>	Policy Year	<u>16th/17th**</u>
1994	1.004	1993	1.005	1992	1.002	1991	1.002
1995	1.008	1994	1.004	1993	1.001	1992	1.004
1996	1.005	1995	1.001	1994	1.007	1993	1.001
1997	1.001	1996	1.005	1995	1.000	1994	1.003
1998	1.005	1997	1.003	1996	1.006	1995	1.000
Average*	1.005	Average*	1.004	Average*	1.003	Average*	1.002

Policy Year	<u>17th/18th**</u>	Policy Year	<u>18th/19th**</u>
1990	1.002	1989	1.003
1991	1.003	1990	1.004
1992	1.001	1991	1.001
1993	1.001	1992	1.003
1994	1.006	1993	1.004
Average*	1.002	Average*	1.003

* Excludes the years with the lowest and highest factors.

** For Policy Years 1992 and prior, the development portion of the link ratio was adjusted by a factor of 0.5. No adjustment was made for Policy Years 1993 and subsequent.



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section C - Limited Medical Paid Loss Development Factors

Policy Year	<u>1st/2nd</u>	Policy Year	<u>2nd/3rd</u>	Policy Year	<u>3rd/4th</u>	Policy Year	<u>4th/5th</u>
2006	1.247	2005	1.091	2004	1.027	2003	1.017
2007	1.297	2006	1.073	2005	1.037	2004	1.010
2008	1.298	2007	1.091	2006	1.035	2005	1.019
2009	1.280	2008	1.084	2007	1.050	2006	1.028
2010	1.318	2009	1.101	2008	1.039	2007	1.014
Average*	1.292	Average*	1.089	Average*	1.037	Average*	1.017

Policy Year	<u>5th/6th</u>	Policy Year	<u>6th/7th</u>	Policy Year	<u>7th/8th</u>	Policy Year	<u>8th/9th</u>
2002	1.010	2001	1.004	2000	1.017	1999	1.009
2003	1.015	2002	1.006	2001	1.007	2000	1.007
2004	0.998	2003	1.006	2002	1.005	2001	1.007
2005	1.017	2004	1.000	2003	1.003	2002	1.005
2006	1.013	2005	1.010	2004	1.002	2003	1.001
Average*	1.013	Average*	1.005	Average*	1.005	Average*	1.006

Policy Year	<u>9th/10th</u>	Policy Year	<u>10th/11th</u>	Policy Year	<u>11th/12th</u>	Policy Year	<u>12th/13th</u>
1998	1.002	1997	1.006	1996	1.000	1995	1.002
1999	0.998	1998	1.004	1997	1.003	1996	1.000
2000	1.001	1999	1.002	1998	1.003	1997	1.004
2001	1.005	2000	1.006	1999	1.008	1998	1.002
2002	1.006	2001	1.003	2000	1.018	1999	1.005
Average*	1.003	Average*	1.004	Average*	1.005	Average*	1.003

Policy Year	<u>13th/14th</u>	Policy Year	<u>14th/15th</u>	Policy Year	<u>15th/16th</u>	Policy Year	<u>16th/17th</u>
1994	1.003	1993	1.005	1992	1.002	1991	1.001
1995	1.008	1994	1.003	1993	1.002	1992	1.002
1996	1.001	1995	1.006	1994	1.003	1993	1.004
1997	1.003	1996	1.002	1995	1.004	1994	1.003
1998	1.001	1997	1.002	1996	1.001	1995	1.004
Average*	1.002	Average*	1.003	Average*	1.002	Average*	1.003

Policy Year	<u>17th/18th</u>	Policy Year	<u>18th/19th</u>
1990	1.001	1989	1.003
1991	1.004	1990	1.002
1992	1.001	1991	1.001
1993	1.006	1992	1.001
1994	1.005	1993	1.003
Average*	1.003	Average*	1.002

* Excludes the years with the lowest and highest factors.



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section D - Determination of Policy Year Loss Development Factors (19th-to-Ultimate Report)

Indemnity Paid+Case Data for Matching Companies

(1) Policy Year	(2) <u>Losses for Policy Year</u> 19th Report	(3) <u>Losses for Policy Year</u> 20th Report	(4) <u>Losses for All Prior Policy Years</u> Previous	(5) <u>Losses for All Prior Policy Years</u> Current	(6) Factor to Adjust Losses for Prior Policy Years	(7) Indicated 19th-to-Ult Development for Policy Year
1985	99,181,358	99,646,049	630,586,643	630,204,695	0.661	0.999
1986	125,687,696	126,336,934	721,066,898	720,792,023	0.545	1.001
1987	146,804,574	147,122,331	874,425,984	876,324,865	0.532	1.026
1988	154,789,371	154,601,219	1,030,466,056	1,029,990,339	0.559	0.993
1989	176,705,579	177,303,328	1,184,591,558	1,185,617,205	0.528	1.014
1990	112,503,976	112,790,727	1,298,012,630	1,298,407,655	0.899	1.006
1991	85,575,382	85,672,605	1,409,971,364	1,411,320,669	1.239	1.014
1992	48,966,747	49,116,401	1,496,937,389	1,498,563,425	2.215	1.018
Selected Indemnity 19th-to-Ultimate Loss Development Factor*						1.005

* The development portion of the tail factor was adjusted by a factor of 0.5

Medical Paid+Case Data for Matching Companies

(8) Policy Year	(9) <u>Losses for Policy Year</u> 19th Report	(10) <u>Losses for Policy Year</u> 20th Report	(11) <u>Losses for All Prior Policy Years</u> Previous	(12) <u>Losses for All Prior Policy Years</u> Current	(13) Factor to Adjust Losses for Prior Policy Years	(14) Indicated 19th-to-Ult Development for Policy Year
1985	26,394,325	26,676,091	192,526,656	193,065,376	0.671	1.041
1986	31,620,463	31,670,926	216,546,253	215,725,244	0.583	0.957
1987	36,236,507	36,343,911	247,396,170	248,426,087	0.554	1.054
1988	40,060,454	40,473,027	287,528,109	288,304,226	0.550	1.046
1989	46,187,274	45,985,799	328,777,253	331,652,954	0.516	1.116
1990	33,727,324	33,705,992	358,959,623	359,252,356	0.754	1.011
1991	30,866,077	31,077,089	392,573,156	395,172,097	0.884	1.102
1992	20,595,271	20,585,164	426,208,322	426,744,401	1.391	1.018
Selected Medical 19th-to-Ultimate Loss Development Factor						1.043

$$(7) = 1 + [(3)-(2) + ((5)-(4)) / (6)] / (2)$$

$$(14) = 1 + [(10)-(9) + ((12)-(11)) / (13)] / (9)$$

Columns (4) and (11) are valued as of the date at which the given policy year is at a 19th report.

Columns (5) and (12) are valued as of the date at which the given policy year is at a 20th report.



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section E - Derivation of Policy Year Limited 19th-to-Ultimate Loss Development Factors

Policy Year	Indemnity Paid-to-Paid + Case Ratio 19th Report *	Medical Paid-to-Paid + Case Ratio 19th Report
1989	0.972	0.951
1990	0.988	0.982
1991	0.985	0.984
1992	0.992	0.990
1993	0.989	0.971
Average	0.985	0.976

* Policy Years 1992 and prior were adjusted to reflect the 1992 reform.

	Indemnity	Medical
(1) Paid+Case 19th-to-Ultimate Loss Development Factor (Section D)	1.005	1.043
(2) Factor to Adjust 19th-to-Ultimate Development Factor to a Limited Basis	0.380	0.380
(3) Limited Paid+Case 19th-to-Ultimate Loss Development Factor = [(1)-1]x(2)+1	1.002	1.016
(4) Limited Paid-to-Paid+Case Ratio (Section E)	0.985	0.976
(5) Limited Paid 19th-to-Ultimate Loss Development Factor = (3) / (4)	1.017	1.041

Section F - Summary of Limited Paid Loss Development Factors

Report	(1) Indemnity Paid Loss Development		Section E	(3) Medical Paid Loss Development		Section E
	to Next Report	to Ultimate		to Next Report	to Ultimate	
1st	1.723	2.915		1.292	1.633	
2nd	1.278	1.692		1.089	1.264	
3rd	1.106	1.324		1.037	1.161	
4th	1.057	1.197		1.017	1.120	
5th	1.026	1.132		1.013	1.101	
6th	1.025	1.103		1.005	1.087	
7th	1.010	1.076		1.005	1.082	
8th	1.008	1.065		1.006	1.077	
9th	1.003	1.057		1.003	1.071	
10th	1.007	1.054		1.004	1.068	
11th	1.006	1.047		1.005	1.064	
12th	1.005	1.041		1.003	1.059	
13th	1.005	1.036		1.002	1.056	
14th	1.004	1.031		1.003	1.054	
15th	1.003	1.027		1.002	1.051	
16th	1.002	1.024		1.003	1.049	
17th	1.002	1.022		1.003	1.046	
18th	1.003	1.020		1.002	1.043	
19th		1.017	Section E		1.041	Section E

(2) = Cumulative upward product of column (1).

(4) = Cumulative upward product of column (3).



RHODE ISLAND

APPENDIX A-II

Determination of Premium and Losses Developed to an Ultimate Report

Section G - Factor to Adjust Limited Losses to an Unlimited Basis

(1) Threshold at the Midpoint of the Loss Cost Effective Period*	3,408,387
(2) Statewide Excess Ratio for (1)	0.043
(3) Market Share for Carriers Missing from Large Loss and Catastrophe Call	0.000
(4) Factor to Adjust Limited Losses to an Unlimited Basis = $1.0 / \{1.0 - [(2) \times (1.0 - (3))]\}$	1.045

Section H - Policy Year Large Loss Limits

<u>Experience Year</u>	<u>Policy Year Detrended Limit</u>
2011	3,058,025
2010	3,003,924
2009	2,927,032
2008	2,879,979
2007	2,824,586
2006	2,744,009
2005	2,645,597
2004	2,551,622
2003	2,473,384
2002	2,374,504
2001	2,283,730
2000	2,212,917
1999	2,131,992
1998	2,055,896
1997	1,968,512
1996	1,868,754
1995	1,794,007
1994	1,735,783
1993	1,687,620

* July 25, 2015 is the midpoint of the effective period for which the revised loss costs are being proposed.



RHODE ISLAND

APPENDIX A-III

Policy Year Trend Factors

Section A - Summary of Policy Year Data

(1)	(2)	(3)	(4)	(5)	(6)
Policy Year	Lost-Time Claim Frequency*	Indemnity		Medical	
		Avg Cost Per Case**^	Loss Ratio^	Avg Cost Per Case**^	Loss Ratio^
1997	38.286	15,279	0.585	7,044	0.270
1998	36.337	15,668	0.569	6,836	0.248
1999	37.370	14,652	0.547	7,097	0.265
2000	35.929	15,457	0.555	6,966	0.250
2001	34.540	16,089	0.556	7,436	0.257
2002	34.416	14,565	0.502	7,314	0.252
2003	33.493	15,449	0.517	7,863	0.263
2004	31.850	15,295	0.487	8,012	0.255
2005	31.248	15,576	0.487	8,437	0.264
2006	29.679	16,802	0.499	8,643	0.257
2007	28.696	18,451	0.530	9,003	0.258
2008	26.713	20,567	0.549	9,906	0.265
2009	27.446	19,594	0.538	9,893	0.271
2010	29.277	19,434	0.569	9,746	0.285
2011	27.413	19,609	0.538	9,705	0.266

* Figures have been adjusted to the current wage level.

^ Based on paid losses.

Section B - Summary of Annual Trend Factors

	<u>Indemnity</u>	<u>Medical</u>
(1) Current Approved Annual Loss Ratio Trend Factor	1.000	1.005
(2) Policy Year Loss Ratio Trends		
8-point Exponential Trend	1.021	1.010
Statistical Trend	1.010	1.011
(3) Selected Annual Loss Ratio Trend Factor	1.000	1.005
(4) Length of Trend Period from Midpoint of Policy Year to Midpoint of Effective Period:		
		<u>Years</u>
	Policy Year 2009	5.617
	Policy Year 2010	4.617
	Policy Year 2011	3.617
(5) Trend Factor Applied to Experience Year = (3) ^ (4)	<u>Indemnity</u>	<u>Medical</u>
	Policy Year 2009	1.028
	Policy Year 2010	1.023
	Policy Year 2011	1.018



RHODE ISLAND

APPENDIX A-IV

Carriers Not Included in Policy Year Experience

NCCI maintains several data reporting initiatives and programs to assist carriers to report data and to ensure that the data that is reported to NCCI is complete, accurate, and reported in a timely fashion. Occasionally, a particular carrier's data submission is not available for use in an NCCI filing either because the data was not reported prior to the filing, had quality issues, or NCCI determined that the data that was reported should not be included in the filing based on NCCI's actuarial judgment. All carriers writing at least one-tenth of one percent of the Rhode Island workers compensation written premium volume and whose data is not included in this filing are listed below. The listing is separated by year used in the filing's experience period.

Policy Year 2011

None

Policy Year 2010

None

Policy Year 2009

None



**RHODE ISLAND
APPENDIX A-V**

Derivation of Industry Group Differentials

Industry group differentials are used to more equitably distribute the overall premium level change based on the individual experience of each industry group.

Wage trend adjustments are calculated to account for the change in industry group wages relative to the change in medical losses. The converted indicated losses used to calculate these adjustments are the losses from the Workers Compensation Statistical Plan. These losses are limited to \$500,000 for single claim occurrence and \$1,500,000 for each multiple claim occurrence. These limited losses are then adjusted to an ultimate unlimited basis through the application of limited development and an expected excess provision, and brought to the proposed experience, law and loss-based expense levels.

The indicated losses, column (8), are the converted indicated losses further adjusted for trend and the change in overall off balance for experience rating; the adjustments are shown in Appendix B-I, Sections A-1 through A-3. The expected losses (13) are at the same proposed level as the indicated losses and contain a change in industry group off balance. An adjustment to convert the proposed expected losses to reflect current relativities (15) is used to calculate the indicated to expected ratio (16). The indicated differential (17) reflects the indicated losses at a proposed level to expected losses with relativities of the current level to correctly distribute the proposed changes on an industry group basis.

In the calculation of the credibility weighted differentials, the ratios of indicated losses to expected losses by industry group (modified by the wage trend adjustments), column (18), are credibility weighted with the statewide ratio. The credibility is based on lost-time claim counts, column (19). The full credibility standard, column (20), is 12,000 lost-time claims for each industry group. Partial credibility is calculated using the square root of the ratio of the actual lost-time claim counts and the number of lost-time claim counts required for full credibility. The statewide credibility weighted ratio (22) is rebalanced using the latest year expected losses to ensure that the overall premium level change is achieved.

I. Industry Group Wage Trend Adjustment

	(1) Converted Indicated Indemnity Losses*	(2) Converted Indicated Medical Losses*	(3) Converted Indicated Total Losses* (1)+(2)	(4) QCEW Average Weekly Wage Trend	(5) Wage Trend Differential (4)SW/(4)IG	(6) Medical Loss Wage Trend Adjustment [(1)+(2)X(5)]/(3)	(7) Normalized Medical Loss Wage Trend Adjustment
Manufacturing	97,584,578	58,680,274	156,264,852	1.075	0.994	0.998	0.998
Contracting	127,922,234	70,648,095	198,570,329	1.069	1.000	1.000	1.000
Off. & Cler.	73,962,746	47,468,394	121,431,140	1.082	0.988	0.995	0.995
Goods and Srv.	238,413,439	151,919,552	390,332,991	1.059	1.009	1.004	1.004
Miscellaneous	96,654,823	59,198,814	155,853,637	1.076	0.993	0.997	0.997
Statewide	634,537,820	387,915,129	1,022,452,949	1.069		1.000	

*These converted indicated losses are prior to the application of trend.



RHODE ISLAND
APPENDIX A-V

II. Indicated and Expected Losses

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Industry Group	Converted Indicated Balanced Losses	Current Ratio of Manual to Standard Premium	Proposed Ratio of Manual to Standard Premium	Latest Year Current Expected Losses	Five Year Current Expected Losses	Five Year Proposed Expected Losses	Current/ Proposed (12)/(13)	Adjustment to Proposed for Current Relativity (14)IG/(14)SW
Manufacturing	146,386,672	1.049	1.043	28,631,901	149,211,680	153,631,106	0.971	1.000
Contracting	185,698,624	1.091	1.091	30,442,477	179,266,594	184,578,892	0.971	1.000
Off. & Cler.	113,736,886	1.057	1.070	24,076,384	114,186,134	117,567,025	0.971	1.000
Goods and Srv.	366,063,294	0.992	0.993	71,899,621	348,317,947	358,626,192	0.971	1.000
Miscellaneous	145,980,038	1.038	1.039	28,022,769	140,161,357	144,313,453	0.971	1.000
Statewide	957,865,514			183,073,152	931,143,712	958,716,668	0.971	

III. Industry Group Differentials

	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
Industry Group	Indicated/Expected Ratio (8)/[(13)x(15)]	Indicated Differential (w/o Wage Trend) (16)IG/(16)SW	Indicated/ Expected Ratio (w/ Wage Trend) (7)x(16)	Lost-Time Claim Counts	Full Credibility Standard for Lost- Time Claim Counts	Credibility Minimum of 1.000 and (19)/(20)^0.5	Credibility Weighted/ Indicated/ Expected Ratio	Normalized Credibility Weighted/ Indicated/ Expected Ratio (22)IG/(22)SW*	Final Industry Group Differential
Manufacturing	0.953	0.954	0.951	4,330	12,000	0.60	0.970	0.966	0.966
Contracting	1.006	1.007	1.006	2,984	12,000	0.50	1.003	0.999	0.999
Off. & Cler.	0.967	0.968	0.962	2,885	12,000	0.49	0.981	0.977	0.977
Goods and Srv.	1.021	1.022	1.025	12,906	12,000	1.00	1.025	1.021	1.021
Miscellaneous	1.012	1.013	1.009	3,722	12,000	0.56	1.005	1.001	1.001
Statewide	0.999		0.999				1.004		1.000

*Statewide ratio (column 22) = $\sum IG((11)X(22)) + \sum IG(11)$



**RHODE ISLAND
APPENDIX B-I**

Distribution of Pure Premium Level Change to Occupational Classification

After determining the required changes in pure premium level overall for the state and by industry group, the next step in the ratemaking procedure is to distribute these changes among the various occupational classifications. In order to do this, the pure premiums by classification must be adjusted, by policy period, industry group, or on an overall basis, to incorporate the changes proposed in the filing. There are three sets of pure premiums for each classification: indicated, present on rate level, and national pure premiums.

Section A – Calculation of Indicated Pure Premiums

The indicated pure premiums are calculated from the payroll and loss data reported, by class code and policy period, in the Workers Compensation Statistical Plan (WCSP) for the latest available five policy periods. Various adjustments are made to these pure premiums to put them at the level proposed in this filing (Sections A-1 to A-3).

Section A-1 – Calculation of Primary Conversion Factors

1. Limited Loss Development Factors

The following factors are applied to develop the losses from first through fifth report to an ultimate basis.

Policy Period	Indemnity		Medical	
	Likely-to-Develop	Not-Likely-to-Develop	Likely-to-Develop	Not-Likely-to-Develop
1/06-12/06	1.086	1.017	1.181	1.014
1/07-12/07	1.122	1.029	1.206	1.011
1/08-12/08	1.168	1.061	1.213	1.012
1/09-12/09	1.316	1.121	1.225	1.006
1/10-12/10	1.935	1.405	1.324	0.997

2. Factors to Adjust to the Proposed Trend Level

The proposed trend factors are applied to adjust the indicated pure premiums to the proposed level.

Policy Period	Indemnity	Medical
1/06-12/06	1.000	1.044
1/07-12/07	1.000	1.039
1/08-12/08	1.000	1.034
1/09-12/09	1.000	1.028
1/10-12/10	1.000	1.023

3. Factors to Adjust to the September 1, 2013 Benefit Level

The factors in the following table are applied to adjust the statistical plan losses to the proposed benefit level.

Policy Period	Fatal	Permanent Total (P.T.)	Permanent Partial (P.P.)	Temporary Total (T.T.)	Medical
1/06-12/06	1.022	1.021	1.040	1.022	1.000
1/07-12/07	1.016	1.016	1.039	1.016	1.000
1/08-12/08	1.013	1.013	1.038	1.013	1.000
1/09-12/09	1.010	1.011	1.037	1.010	1.000
1/10-12/10	1.008	1.009	1.037	1.008	1.000



**RHODE ISLAND
APPENDIX B-I**

4. Primary Conversion Factors: Indicated Pure Premiums

The factors above, contained within Section A-1, are combined multiplicatively, resulting in the following factors for Likely-to-Develop (L) and Not-Likely-to-Develop (NL) groupings.

Policy Period	Fatal (L)	Fatal (NL)	P.T.*	P.P. (L)	P.P. (NL)	T.T. (L)	T.T. (NL)	Medical (L)	Medical (NL)
1/06-12/06	1.110	1.039	1.109	1.129	1.058	1.110	1.039	1.233	1.059
1/07-12/07	1.140	1.045	1.140	1.166	1.069	1.140	1.045	1.253	1.050
1/08-12/08	1.183	1.075	1.183	1.212	1.101	1.183	1.075	1.254	1.046
1/09-12/09	1.329	1.132	1.330	1.365	1.162	1.329	1.132	1.259	1.034
1/10-12/10	1.950	1.416	1.952	2.007	1.457	1.950	1.416	1.354	1.020

* Permanent total losses are always assigned to the Likely-to-Develop grouping.

Section A-2 – Expected Excess Provision and Redistribution

After the application of the primary conversion factors, the limited losses are brought to an expected unlimited level through the application of excess loss factors by hazard group. These factors are shown below.

Hazard Group	A	B	C	D	E	F	G
(1) Excess Ratios	0.093	0.115	0.135	0.152	0.179	0.221	0.282
(2) Excess Factors 1/(1-(1))	1.103	1.131	1.156	1.180	1.218	1.283	1.393

As the excess loss factors are on a combined (indemnity and medical) basis, a portion (40%) of the indemnity expected excess losses are redistributed to medical in order to more accurately allocate expected excess losses. Since a portion of the expected excess losses are redistributed in an additive manner, the expected excess factors shown above cannot be combined multiplicatively with either the primary or secondary loss conversion factors.



**RHODE ISLAND
APPENDIX B-I**

Section A-3 – Calculation of Secondary Conversion Factors

1. Factors to Adjust for Proposed Industry Group Differentials

The following factors are applied to adjust the indicated industry group differentials for normalized wage trend, the effect of credibility weighting of the industry group differentials, and weighting the differentials by the latest year expected losses.

	Manufacturing	Contracting	Office and Clerical	Goods and Services	Miscellaneous
(1) Indicated Differentials*	0.954	1.007	0.968	1.022	1.013
(2) Final Differentials**	0.966	0.999	0.977	1.021	1.001
(3) Adjustment (2)/(1)	1.013	0.992	1.009	0.999	0.988

*See Appendix A-V, column (17).

**See Appendix A-V, column (24).

2. Factors to Balance Indicated to Expected Losses

The expected losses are calculated as the pure premium underlying the current loss costs, adjusted to the proposed level and adjusted for the Experience Rating Plan off-balance. The indicated losses are balanced to the expected losses by applying the following factors.

Policy Period	(1) Adjustment of Indicated Losses to Pure Premium at Proposed Level	(2) Current Ratio of Manual to Standard Premium	(3) Proposed Ratio of Manual to Standard Premium	(4) Off-balance Adjustment (2)/(3)	(5) Balancing Indicated to Expected Losses (1)x(4)
1/06-12/06	0.951	1.038	1.046	0.992	0.943
1/07-12/07	0.908	1.036	1.039	0.997	0.905
1/08-12/08	0.901	1.035	1.037	0.998	0.899
1/09-12/09	0.931	1.034	1.032	1.002	0.933
1/10-12/10	0.952	1.033	1.030	1.003	0.955

3. Adjustment for Experience Change

A factor of 1.025 is applied to adjust for the experience change in the proposed loss cost level.

4. Factor to Reflect the Proposed Loss Adjustment Expense

A factor of 1.187 is applied to include the proposed loss adjustment expense.

5. Secondary Conversion Factors: Indicated Pure Premiums

The factors above, contained within section A-3, are combined multiplicatively, resulting in the following factors:

Policy Period	Manufacturing	Contracting	Office and Clerical	Goods and Services	Miscellaneous
1/06-12/06	1.162	1.138	1.158	1.146	1.134
1/07-12/07	1.115	1.092	1.111	1.100	1.088
1/08-12/08	1.108	1.085	1.104	1.093	1.081
1/09-12/09	1.150	1.126	1.145	1.134	1.122
1/10-12/10	1.177	1.153	1.172	1.161	1.148



**RHODE ISLAND
APPENDIX B-I**

Section B – Calculation of Present on Rate Level Pure Premiums

The present on rate level pure premiums are the pure premiums underlying the current loss costs, adjusted to the proposed level. The data sources for the above captioned pure premiums are the partial pure premiums underlying the current loss costs.

1. Adjustment for Experience Change

A factor of 1.025 is applied to adjust for the experience change in the proposed loss cost level.

2. Factors to Adjust to the Proposed Trend Level

The pure premiums underlying current loss costs contain the current trend. The change in trend factors, 1.000 and 1.000 for indemnity and medical, respectively, are applied to adjust to the proposed trend level.

3. Factors to Adjust to the September 1, 2013 Benefit Level

The pure premiums underlying current loss costs are at the current September 1, 2012 level. The following factors are applied to adjust to the proposed benefit level.

Effective Date	Indemnity	Medical
September 1, 2013	1.001	1.000

4. Factors to Include the Proposed Loss-Based Expense Provisions

The pure premiums underlying current loss costs include the current loss adjustment expense and must be adjusted to the proposed level.

	(a) Current		(b) Proposed	
	Indemnity	Medical	Indemnity	Medical
(1) Loss Adjustment Expense	1.182	1.182	1.187	1.187
(2) Overall Change (1b)/(1a)			1.004	1.004

5. Adjustment to Obtain Expected Losses

The pure premiums underlying current loss costs reflect the current off-balance for the Experience Rating Plan. The change in off-balance must be applied.

Industry Group	(1) Current Ratio of Manual to Standard Premium	(2) Proposed Ratio of Manual to Standard Premium	(3) Off-balance Adjustment (1)/(2)
Manufacturing	1.049	1.043	1.006
Contracting	1.091	1.091	1.000
Office & Clerical	1.057	1.070	0.988
Goods & Services	0.992	0.993	0.999
Miscellaneous	1.038	1.039	0.999



**RHODE ISLAND
APPENDIX B-I**

6. Factors to Adjust for Proposed Industry Group Differentials

The pure premiums underlying current loss costs are adjusted by the proposed industry group differentials.

Industry Group	(1) Final Differential*	(2) Adjustment to Proposed for Current Relativities**	(3) Adjusted Differential (1)x(2)
Manufacturing	0.966	1.000	0.966
Contracting	0.999	1.000	0.999
Office & Clerical	0.977	1.000	0.977
Goods & Services	1.021	1.000	1.021
Miscellaneous	1.001	1.000	1.001

*See Appendix A-V, column (24).

**See Appendix A-V, column (15).

7. Combined Conversion Factors

The factors above, contained within Section B, are combined multiplicatively, resulting in the following factors.

Industry Group	Indemnity	Medical
Manufacturing	1.001	1.000
Contracting	1.029	1.028
Office & Clerical	0.994	0.993
Goods & Services	1.051	1.050
Miscellaneous	1.030	1.029



RHODE ISLAND APPENDIX B-I

Section C – Calculation of National Pure Premiums

Finally, there are the national pure premiums, which reflect the countrywide experience for each classification adjusted to state conditions. These pure premiums reflect the countrywide experience for each classification as indicated by the latest available individual classification experience for all states for which the National Council on Compensation Insurance compiles workers compensation data.

Countrywide data is adjusted to Rhode Island conditions in four steps. First, statewide indicated pure premiums are determined for Rhode Island. Second, using Rhode Island payrolls as weights, corresponding statewide average pure premiums are computed for each remaining state. Third, the ratios of Rhode Island statewide pure premiums to those for other states are used as adjustment factors to convert losses for other states to a basis that is consistent with the Rhode Island indicated pure premiums. The quotient of the countrywide total of such adjusted losses divided by the total countrywide payroll for the classification is the initial pure premium indicated by national relativity. Finally, national pure premiums are balanced to the level of the state indicated pure premiums to ensure unbiased derived by formula pure premiums. Indemnity and medical pure premiums are computed separately.

Section D – Calculation of Derived by Formula Pure Premiums

The indicated, present on rate level and national pure premiums are credibility weighted, and the resulting derived by formula pure premiums are used to determine the final class loss costs.

As for the preceding pure premiums, separate computations are performed for each partial pure premium: indemnity and medical. Each partial formula pure premium is derived by the weighting of the indicated, present on rate level and national partial pure premiums. The weight assigned to the policy year indicated pure premium varies in one percent intervals from zero percent to one hundred percent, depending upon the volume of expected losses (i.e. the product of the underlying pure premiums and the payroll in hundreds). To achieve full state credibility, a classification must have expected losses of at least: \$18,657,486 for indemnity, and \$5,527,910 for medical.

The partial credibilities formula is:

$$z = [(\text{expected losses}) / (\text{full credibility standard})]^{0.4}$$

For the national pure premiums, credibility is determined from the number of lost-time claims. Full credibility standards are: 1,150 lost-time claims for indemnity; and 1,000 lost-time claims for medical.

Partial credibilities are assigned using a credibility formula similar to that used for indicated pure premiums but based on the number of national cases. In no case is the national credibility permitted to exceed 50% of the complement of the state credibility.

National Credibility = the smaller of
[(national cases)/(full credibility standard)]^{0.4} and [(1 – state credibility)/2]

The residual credibility (100% minus the sum of the state and national credibilities) is assigned to the present on rate level pure premium.

For example, if the state credibility is 40%, the national pure premium is assigned a maximum credibility of 30% ((100-40) / 2). The remainder is assigned to the present on rate level pure premium.

The total pure premium shown on the attached Appendix B-III is obtained by adding the indemnity and medical partial pure premiums obtained above and rounding the sum to two decimal places.



RHODE ISLAND APPENDIX B-II

Adjustments to Pure Premiums to Obtain Advisory Loss Costs

The following items are combined with the derived by formula pure premium to obtain the proposed advisory loss cost:

1. Test Correction Factor

The payrolls are now extended by the advisory loss costs presently in effect and by the indicated advisory loss costs to determine if the required change in manual premium level as calculated in Exhibit I has been achieved. Since at first this calculation may not yield the required results, an iterative process is initiated which continuously tests the proposed advisory loss costs including tentative test correction factors until the required change in manual premium level is obtained. The test correction factor is applied to the derived by formula pure premiums.

The factors referred to above are set out as follows:

	Test Correction Factor
Manufacturing	1.0026
Contracting	1.0019
Office & Clerical	1.0338
Goods & Services	1.0065
Miscellaneous	1.0000

2. Ratios of Manual to Standard Premiums

The ratios of manual to standard premiums by industry group have also been excluded from the classification experience, and it is necessary to apply these factors to the derived by formula pure premiums.

	Ratio of Manual to Standard Premiums
Manufacturing	1.043
Contracting	1.091
Office & Clerical	1.070
Goods & Services	0.993
Miscellaneous	1.039

3. Disease Loadings

The proposed manual advisory loss costs shown in this filing include specific disease loadings for those classifications where they apply. The proposed specific disease loadings are shown on the footnotes page.



RHODE ISLAND
APPENDIX B-II

4. Swing Limits

As a further step a test is made to make certain that the proposed advisory loss costs fall within the following departures from the present advisory loss costs:

Manufacturing	from 15% above to 15% below
Contracting	from 18% above to 12% below
Office & Clerical	from 16% above to 14% below
Goods & Services	from 20% above to 10% below
Miscellaneous	from 18% above to 12% below

These limits have been calculated in accordance with the following formula:

Max. Deviation = Effect of the final change in premium level by industry group plus or minus 15% rounded to the nearest 1%.

The product of the swing limits and the present advisory loss cost sets bounds for the proposed advisory loss cost. If the calculated advisory loss cost falls outside of the bounds, the closest bound is chosen as the proposed advisory loss cost. When a code is limited, the underlying pure premiums are adjusted to reflect the limited advisory loss cost. The classifications which have been so limited are shown below. Note that classifications that are subject to special handling may fall outside of swing limits.

An illustrative example showing the calculation of a proposed manual class advisory loss cost is attached as Appendix B-III. This example demonstrates the manner in which the partial pure premiums are combined to produce a total pure premium, and shows the steps in the calculation at which the rounding takes place. The advisory loss costs for other classifications are calculated in the same manner.

List of Classifications Limited by Upper Swing

List of Classifications Limited by Lower Swing

0034	0106	1438	1748	2070	2105	2501	2585	1701	2081	2111	2402	2683	3064	3131	3365
2623	2701	2841	3113	3175	3180	3270	3336	3726	4034	4114	4130	4304	4410	4581	4686
3372	3507	4670	4692	4741	5040	5472	6003	4923	5020	5037	5057	5059	6252	7394	7395
6251	6811	7230	7232	7390	7520	8006	8203	7398	7431	7453	7605	8047	8106	8227	8233
8291	8721	8725	8748	8803	8842	9012	9019	8500	8799	8871	8901	9178			
9058	9089	9156	9170	9410	9516										



RHODE ISLAND
APPENDIX B-II

Determination of Rating Values on Miscellaneous Values Page

A. Current and Proposed Miscellaneous Values are calculated based on formulas, dependent on the State Average Weekly Wage (SAWW).

	Current	Proposed	Change
1) State Average Weekly Wage (SAWW)	\$864.81 ¹	\$883.63 ²	2.2%
2) Basis of premium applicable in accordance with the Basic Manual footnote instructions for Code 7370 -- "Taxicab Co.":			
Employee operated vehicle ³	\$67,500	\$69,000	2.2%
Leased or rented vehicle ⁴	\$45,000	\$46,000	2.2%
3) Maximum Payroll applicable in accordance with the Basic Manual footnote instructions for Code 9178 -- "Athletic Sports or Park: Non-Contact Sports", and Code 9179 -- "Athletic Sports or Park: Contact Sports" ⁵	\$3,500	\$3,500	0.0%
4) Maximum Payroll applicable in accordance with Basic Manual Rule 2-E-1 -- "Executive Officers" ⁶	\$3,500	\$3,500	0.0%
5) Minimum Payroll applicable in accordance with Basic Manual Rule 2-E-1 -- "Executive Officers" ⁷	\$850	\$900	5.9%
6) Per Passenger Seat Surcharge - In accordance with the Basic Manual footnote instructions for classification Code 7421, the surcharge is:			
Maximum surcharge per aircraft ⁸	\$1,000	\$1,000	0.0%
Per passenger seat ⁹	\$100	\$100	0.0%

¹ State Average Weekly Wage. Effective September 1, 2012.

² State Average Weekly Wage. Effective September 1, 2013.

³ Underlying formula is: SAWW x 52 x 1.5 (Rounded to the nearest \$100), Item B-1422.

⁴ Underlying formula is: SAWW x 52 (Rounded to the nearest \$100), Item B-1422.

⁵ Underlying formula is: SAWW x 4 (Rounded to the nearest \$100), Item B-1422.

⁶ Underlying formula is: SAWW x 4 (Rounded to the nearest \$100), Item B-1420

⁷ Underlying formula is: SAWW (Rounded to the nearest \$50), Item B-1420.

⁸ Amount is capped at \$1000.

⁹ Amount is capped at \$100.

B. Loss Elimination Ratios (LERs) continue to be determined using the standard methodology described in the literature (e.g. Gillam, W.R.; and Snader, R.H., "Fundamentals of Individual Risk Rating," 1992, and Rollins, J.; and Washburn, M.J., "A Quantification of Snader's Deductible Safety Factor," 1994). The updated values reflect the experience, trend and development consistent with the ELPPFs filed in Item R-1406.



RHODE ISLAND
APPENDIX B-III

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 8810

As previously explained in Appendix B-I, the indicated pure premiums are developed by adjusting the limited losses by a set of conversion factors. The converted losses are then summarized into indemnity and medical and then divided by payroll (in hundreds). The derivation of the indicated pure premium for the above captioned classification follows:

LIMITED LOSSES (Workers Compensation Statistical Plan)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	1,102,794	1,552,824	704,435	551,824	596,515	1,206,386
01/01/07 - 12/31/07	0	0	0	1,042,805	971,035	273,700	1,284,726	596,887	1,485,123
01/01/08 - 12/31/08	0	0	0	1,450,589	1,898,339	328,927	529,446	641,064	1,569,434
01/01/09 - 12/31/09	0	0	0	409,197	1,391,234	241,130	1,020,290	320,580	1,445,372
01/01/10 - 12/31/10	0	0	0	547,185	486,190	194,267	1,426,834	591,870	1,999,536

PRIMARY PARTIAL CONVERSION FACTORS (Appendix B-I, Section A-1)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	1.110	1.039	1.109	1.129	1.058	1.110	1.039	1.233	1.059
01/01/07 - 12/31/07	1.140	1.045	1.140	1.166	1.069	1.140	1.045	1.253	1.050
01/01/08 - 12/31/08	1.183	1.075	1.183	1.212	1.101	1.183	1.075	1.254	1.046
01/01/09 - 12/31/09	1.329	1.132	1.330	1.365	1.162	1.329	1.132	1.259	1.034
01/01/10 - 12/31/10	1.950	1.416	1.952	2.007	1.457	1.950	1.416	1.354	1.020

EXPECTED EXCESS PROVISION AND REDISTRIBUTION (Appendix B-I, Section A-2)

After the application of the primary conversion factors, the limited losses are brought to an expected unlimited level through the application of a hazard group-specific excess loss factor. The factor is shown below:

	HAZARD GROUP: C
Excess Factor	1.156

As the excess loss factor is on a combined (indemnity and medical) basis, the following portion of the indemnity expected excess losses are redistributed to medical in order to more accurately allocate expected excess losses:

Redistribution %	40%
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RHODE ISLAND
APPENDIX B-III

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 8810

EXPECTED UNLIMITED LOSSES (Limited Losses x Primary Conversion Factors, then adjusted for Excess Provision and Redistribution)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	1,361,725	1,796,839	855,195	627,072	977,002	1,615,544
01/01/07 - 12/31/07	0	0	0	1,329,851	1,135,308	341,257	1,468,345	960,157	1,951,641
01/01/08 - 12/31/08	0	0	0	1,922,863	2,285,927	425,585	622,488	1,063,588	2,064,142
01/01/09 - 12/31/09	0	0	0	610,895	1,768,103	350,492	1,263,197	521,560	1,901,073
01/01/10 - 12/31/10	0	0	0	1,201,110	774,759	414,319	2,209,723	1,018,825	2,528,530

SECONDARY CONVERSION FACTORS (Appendix B-I, Section A-3)

Policy Period	INDUSTRY GROUP: Office and Clerical
01/01/06 - 12/31/06	1.158
01/01/07 - 12/31/07	1.111
01/01/08 - 12/31/08	1.104
01/01/09 - 12/31/09	1.145
01/01/10 - 12/31/10	1.172

PAYROLL, FINAL CONVERTED LOSSES (Expected Unlimited Losses x Secondary Conversion Factors)

Policy Period	Payroll	Indemnity Likely	Indemnity Not-Likely	Medical Likely	Medical Not-Likely	Total Indemnity	Total Medical	Total
01/01/06 - 12/31/06	4,155,284,028	2,567,193	2,806,889	1,131,368	1,870,800	5,374,082	3,002,168	8,376,250
01/01/07 - 12/31/07	4,515,975,985	1,856,601	2,892,658	1,066,734	2,168,273	4,749,259	3,235,007	7,984,266
01/01/08 - 12/31/08	4,606,342,439	2,592,687	3,210,890	1,174,201	2,278,813	5,803,577	3,453,014	9,256,591
01/01/09 - 12/31/09	4,532,117,900	1,100,788	3,470,839	597,186	2,176,729	4,571,627	2,773,915	7,345,542
01/01/10 - 12/31/10	4,801,408,565	1,893,283	3,497,813	1,194,063	2,963,437	5,391,096	4,157,500	9,548,596
Total	22,611,128,917	10,010,552	15,879,089	5,163,552	11,458,052	25,889,641	16,621,604	42,511,245
INDICATED PURE PREMIUM						0.114	0.074	0.19

The present on rate level pure premiums are developed by adjusting the pure premiums underlying the current loss cost by the conversion factors calculated in Appendix B-I. The derivation of the present on rate level pure premiums for the above captioned classification follows:

	Indemnity	Medical	Total
Pure Premiums Underlying Current Loss Cost	0.132	0.078	0.21
Conversion Factors (App. B-I, section B)	0.994	0.993	xxx
PURE PREMIUMS PRESENT ON RATE LEVEL (Underlying Pure Premiums) x (Conversion Factor)	0.131	0.077	0.21



RHODE ISLAND APPENDIX B-III

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 8810 Industry Group - Office and Clerical. Hazard Group - C.

The loss cost for the above captioned classification is then derived as shown in the following exhibit:

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
1. Indicated Pure Premium	0.114	0.074	0.19
2. Pure Premium Indicated by National Relativity	0.106	0.075	0.18
3. Pure Premium Present on Rate Level	0.131	0.077	0.21
4. State Credibilities	100%	100%	xxx
5. National Credibilities	0%	0%	xxx
6. Residual Credibilities = 100% - (4) - (5)	0%	0%	xxx
7. Derived by Formula Pure Premiums = (1) x (4) + (2) x (5) + (3) x (6)	0.114	0.074	0.19
8. Test Correction Factor	1.0338	1.0338	xxx
9. Underlying Pure Premiums = (7) x (8) *	0.123	0.077	0.20
10. Ratio of Manual to Standard Premium			1.070
11. Loss Cost = (9) x (10)			0.21
12. Loss Cost Within Swing Limits			0.21
Current Loss Cost x Swing Limits			
a) Lower bound = 0.22 x 0.860 = 0.19			
b) Upper bound = 0.22 x 1.160 = 0.25			
13. Pure Premiums Underlying Proposed Loss Cost* = ((13TOT) / (9TOT)) x (9) , (13TOT) = (12) / (10)	0.123	0.077	0.20
14. Disease, Catastrophe and/or Miscellaneous Loadings			0.00
15. Final Loaded Loss Cost			0.21

* Indemnity pure premium is adjusted for the rounded total pure premium:
Indemnity Pure Premium = Total Pure Premium - Medical Pure Premium



**RHODE ISLAND
APPENDIX B-IV**

I. Determination and Distribution of Premium Level Change to “F” Classifications

The Workers Compensation Statistical Plan (WCSP) data is used to determine the overall “F” classifications (F-class) premium level change as well as the individual change by the various classifications. There are three sets of pure premiums for each classification: indicated, present on rate level, and national pure premiums. All sets of pure premiums are adjusted to the common proposed level that is explained further in this exhibit. These three sets of pure premiums are credibility weighted and the results, the derived by formula pure premiums, are adjusted for additional proposed components (section II) to determine the indicated loss costs. The payrolls are extended by the loss costs presently in effect and the indicated loss costs. The loss costs are then limited to the swing limits based on 15% above and 15% below the current loss costs, which results in the indicated loss cost level change of +5.9%.

A – Calculation of F-Class Indicated Pure Premiums

The payroll and loss data reported are from the WCSP data by class code for the latest available five policy periods.

A-1 Calculation of Primary Conversion Factors

1. Factors to Adjust to the Proposed Benefit Levels

The state losses are adjusted to the September 1, 2013 state law level. The federal losses are adjusted to the October 1, 2012 federal law level.

STATE ACT

Policy Period	Fatal	Permanent Total (P.T.)	Permanent Partial (P.P.)	Temporary Total (T.T.)	Medical
1/06 - 12/06	1.022	1.021	1.040	1.022	1.000
1/07 - 12/07	1.016	1.016	1.039	1.016	1.000
1/08 - 12/08	1.013	1.013	1.038	1.013	1.000
1/09 - 12/09	1.010	1.011	1.037	1.010	1.000
1/10 - 12/10	1.008	1.009	1.037	1.008	1.000

FEDERAL ACT

Policy Period	Fatal	Permanent Total (P.T.)	Permanent Partial (P.P.)	Temporary Total (T.T.)	Medical
1/06 - 12/06	1.045	1.028	1.007	1.028	1.000
1/07 - 12/07	1.037	1.024	1.006	1.024	1.000
1/08 - 12/08	1.027	1.018	1.005	1.018	1.000
1/09 - 12/09	1.017	1.013	1.004	1.013	1.000
1/10 - 12/10	1.013	1.010	1.004	1.010	1.000

2. Factors to Adjust to the Proposed Trend Level

The following factors are applied to trend the losses in each policy year to the proposed rating year. The selected annual trends utilized were 1.000 and 1.005 for indemnity and medical, respectively.

Policy Period	Indemnity	Medical
1/06 - 12/06	1.000	1.044
1/07 - 12/07	1.000	1.039
1/08 - 12/08	1.000	1.034
1/09 - 12/09	1.000	1.028
1/10 - 12/10	1.000	1.023



**RHODE ISLAND
APPENDIX B-IV**

A-1 Calculation of Primary Conversion Factors (continued)

3. Limited Loss Development Factors

The following factors are applied to develop the losses from first through fifth report to an ultimate basis utilizing countrywide data.

Policy Period	Indemnity		Medical	
	Likely-to-Develop	Not-Likely-to-Develop	Likely-to-Develop	Not-Likely-to-Develop
1/06 - 12/06	1.130	1.012	1.278	1.029
1/07 - 12/07	1.189	1.039	1.321	1.030
1/08 - 12/08	1.309	1.115	1.387	1.040
1/09 - 12/09	1.577	1.267	1.483	1.065
1/10 - 12/10	2.952	1.731	1.777	1.134

4. Primary Conversion Factors = (1) x (2) x (3)

The factors above contained within Section A-1, are combined multiplicatively, resulting in the following factors for Likely-to-Develop (L) and Not-Likely-to-Develop (NL) groupings.

STATE ACT

Policy Period	Fatal (L)	Fatal (NL)	P.T.*	P.P. (L)	P.P. (NL)	T.T. (L)	T.T. (NL)	Medical (L)	Medical (NL)
1/06 - 12/06	1.155	1.034	1.154	1.175	1.052	1.155	1.034	1.334	1.074
1/07 - 12/07	1.208	1.056	1.208	1.235	1.080	1.208	1.056	1.373	1.070
1/08 - 12/08	1.326	1.129	1.326	1.359	1.157	1.326	1.129	1.434	1.075
1/09 - 12/09	1.593	1.280	1.594	1.635	1.314	1.593	1.280	1.525	1.095
1/10 - 12/10	2.976	1.745	2.979	3.061	1.795	2.976	1.745	1.818	1.160

FEDERAL ACT

Policy Period	Fatal (L)	Fatal (NL)	P.T.*	P.P. (L)	P.P. (NL)	T.T. (L)	T.T. (NL)	Medical (L)	Medical (NL)
1/06 - 12/06	1.181	1.058	1.162	1.138	1.019	1.162	1.040	1.334	1.074
1/07 - 12/07	1.233	1.077	1.218	1.196	1.045	1.218	1.064	1.373	1.070
1/08 - 12/08	1.344	1.145	1.333	1.316	1.121	1.333	1.135	1.434	1.075
1/09 - 12/09	1.604	1.289	1.598	1.583	1.272	1.598	1.283	1.525	1.095
1/10 - 12/10	2.990	1.754	2.982	2.964	1.738	2.982	1.748	1.818	1.160

* Permanent Total losses are always assigned to the Likely-to-Develop grouping.



RHODE ISLAND
APPENDIX B-IV

A-2 – Expected Excess Provision and Redistribution

To reduce distortions in individual class loss cost indications, individual claim amounts are subject to a maximum limit of \$500,000. Multiple claims accidents are limited to three times the individual claim loss limitation. After the application of the primary conversion factors, the limited losses are brought to an expected unlimited level through the application of excess loss factors by hazard group. These factors are shown below.

Hazard Group	A	B	C	D	E	F	G
(1) Excess Ratios	0.093	0.115	0.135	0.152	0.179	0.221	0.282
(2) Excess Factors 1/(1-(1))	1.103	1.131	1.156	1.180	1.218	1.283	1.393

As the excess loss factors are on a combined (indemnity and medical) basis, a portion (40%) of the indemnity expected excess losses are redistributed to medical in order to more accurately allocate expected excess losses. Since a portion of the expected excess losses are redistributed in an additive manner, the expected excess factors shown above cannot be combined multiplicatively with either the primary or secondary loss conversion factors.

A-3 – Calculation of Secondary Conversion Factors

The following factors are applied to include the proposed loss-based expenses. The state losses are adjusted to reflect the proposed state assessment and loss adjustment expense. The federal losses are adjusted to reflect the proposed USL&HW Special Fund Assessment and loss adjustment expense. The combined** factors are based on a combined indemnity and medical loss-weighted average of the above loss-based expenses by policy period.

Policy Period	State Act	Federal Act
1/06 - 12/06	1.187	1.187
1/07 - 12/07	1.187	1.260
1/08 - 12/08	1.187	1.250
1/09 - 12/09	1.187	1.282
1/10 - 12/10	1.187	1.187

** See Section B.3 for the indemnity and medical breakdown of the proposed loss-based expenses.



**RHODE ISLAND
APPENDIX B-IV**

B – Present On Rate Level

1. Benefits

The current underlying pure premiums are at the current September 1, 2012 state and October 1, 2011 federal law levels. These pure premiums are adjusted to reflect the weighted effect of state and federal laws which bring losses to the proposed September 1, 2013 state and October 1, 2012 federal law levels. The distribution of state and federal losses in regard to total losses was used to determine the weighted effects.

State Weight (St%)	0.085
Federal Weight (Fed%)	0.915

	Indemnity	Medical	Total
(a) State Laws	1.001	1.000	1.001
(b) Federal Laws	1.003	1.000	1.002
(c) Weighted Laws = [(a)xSt%] + [(b)xFed%]	1.003	1.000	1.002

2. Trend

Since the trend in the current underlying pure premiums is adequate for the current rating year, additional trend is applied to bring the underlyings to the proposed rating year.

Indemnity	Medical
1.000	1.006



**RHODE ISLAND
APPENDIX B-IV**

B – Present On Rate Level (continued)

3. Loss-Based Expenses

The current underlying pure premiums are adjusted to reflect the change in the weighted effect of the loss-based expense provisions.

Proposed:

STATE ACT			
	Indemnity	Medical	Total
(a) Loss Adjustment Expense	1.187	1.187	1.187
(b) Loss-Based Assessment	1.000	1.000	1.000
(c) Total = (a) + (b) - 1	1.187	1.187	1.187

FEDERAL ACT			
	Indemnity	Medical	Total
(d) Loss Adjustment Expense	1.187	1.187	1.187
(e) Loss-Based Assessment	1.151	1.000	1.081
(f) Total = (d) + (e) - 1	1.338	1.187	1.268

	Indemnity	Medical	Total
(g) Weighted Proposed Expenses = [(c) x St%] + [(f) x Fed%]	1.325	1.187	1.261

Current:

STATE			
	Indemnity	Medical	Total
(h) Loss Adjustment Expense	1.182	1.182	1.182
(i) Loss-Based Assessment	1.000	1.000	1.000
(j) Total = (h) + (i) - 1	1.182	1.182	1.182

FEDERAL			
	Indemnity	Medical	Total
(k) Loss Adjustment Expense	1.182	1.182	1.182
(l) Loss-Based Assessment	1.160	1.000	1.079
(m) Total = (k) + (l) - 1	1.342	1.182	1.261

	Indemnity	Medical	Total
(n) Weighted Current Expenses = [(j) x St%] + [(m) x Fed%]	1.328	1.182	1.254

Change:

	Indemnity	Medical	Total
Weighted Expense Change in Loss-Based Expenses = [(g) / (n)]	0.998	1.004	1.006

4. Conversion Factors = (1) x (2) x (3)

The factors have been applied multiplicatively resulting in the following factors.

Indemnity	Medical
1.001	1.010



**RHODE ISLAND
APPENDIX B-IV**

C. National Pure Premiums

The latest three years of state and federal losses for states in which NCCI compiles workers compensation data are separately adjusted to the same level as the indicated and present on rate level pure premiums.

Class Code 9077

For Code 9077, the indicated, national and present on rate level pure premiums were calculated as described previously in A, B and C but using the non-appropriated benefit changes and the federal loss-based expenses.

D. Derived by Formula Pure Premiums

The derived by formula pure premiums are calculated by a process similar to that of the industrial codes, which is described in Appendix B-I, Section D. To achieve full state credibility, a classification must have expected losses of at least: \$62,136,700 for indemnity, and \$25,756,000 for medical.

II. Calculation of Proposed Loss Costs

The following items are combined with the derived by formula pure premiums to obtain the proposed loss cost:

A. Test Correction Factor **1.0000**

B. Ratio of Manual Premium to Earned Premium **1.064**
(Selected based on Rhode Island off-balance analysis)

C. Swing Limits

The classifications which were adjusted by swing limits are as follows:

List of Classifications Limited by Upper Swing:
6872 7309 7327 9077

List of Classifications Limited by Lower Swing:
None



RHODE ISLAND
APPENDIX B-IV

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 6824

The indicated pure premiums are developed by adjusting the limited losses by a set of conversion factors. The converted losses are then summarized into indemnity and medical and then divided by payroll (in hundreds). The derivation of the indicated pure premium for the above captioned classification follows:

STATE ACT - LIMITED LOSSES (Workers Compensation Statistical Plan)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	1,000	0	0	34,105	0	25,156
01/01/07 - 12/31/07	0	0	0	0	47,615	0	72,121	0	99,758
01/01/08 - 12/31/08	0	0	0	0	0	0	10,453	0	34,801
01/01/09 - 12/31/09	0	0	0	0	0	0	27,321	0	57,779
01/01/10 - 12/31/10	0	0	0	0	154,168	33,623	76,504	19,979	166,853

FEDERAL ACT - LIMITED LOSSES (Workers Compensation Statistical Plan)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	0	0	0	0	0	0
01/01/07 - 12/31/07	0	0	0	0	0	0	0	0	0
01/01/08 - 12/31/08	0	0	0	0	0	0	0	0	0
01/01/09 - 12/31/09	0	0	0	0	0	0	0	0	0
01/01/10 - 12/31/10	0	0	0	0	0	0	0	0	215

STATE ACT - PRIMARY PARTIAL CONVERSION FACTORS (Appendix B-IV, Section A-1)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	1.155	1.034	1.154	1.175	1.052	1.155	1.034	1.334	1.074
01/01/07 - 12/31/07	1.208	1.056	1.208	1.235	1.080	1.208	1.056	1.373	1.070
01/01/08 - 12/31/08	1.326	1.129	1.326	1.359	1.157	1.326	1.129	1.434	1.075
01/01/09 - 12/31/09	1.593	1.280	1.594	1.635	1.314	1.593	1.280	1.525	1.095
01/01/10 - 12/31/10	2.976	1.745	2.979	3.061	1.795	2.976	1.745	1.818	1.160

FEDERAL ACT - PRIMARY PARTIAL CONVERSION FACTORS (Appendix B-IV, Section A-1)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	1.181	1.058	1.162	1.138	1.019	1.162	1.040	1.334	1.074
01/01/07 - 12/31/07	1.233	1.077	1.218	1.196	1.045	1.218	1.064	1.373	1.070
01/01/08 - 12/31/08	1.344	1.145	1.333	1.316	1.121	1.333	1.135	1.434	1.075
01/01/09 - 12/31/09	1.604	1.289	1.598	1.583	1.272	1.598	1.283	1.525	1.095
01/01/10 - 12/31/10	2.990	1.754	2.982	2.964	1.738	2.982	1.748	1.818	1.160



RHODE ISLAND
APPENDIX B-IV

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 6824

EXPECTED EXCESS PROVISION AND REDISTRIBUTION (Appendix B-IV, Section A-2)

After the application of the primary conversion factors, the limited losses are brought to an expected unlimited level through the application of a hazard group-specific excess loss factor. The factor is shown below:

	HAZARD GROUP: F
Excess Factor	1.283

As the excess loss factor is on a combined (indemnity and medical) basis, the following portion of the indemnity expected excess losses are redistributed to medical in order to more accurately allocate expected excess losses:

Redistribution %	40%
------------------	-----

STATE ACT - EXPECTED UNLIM LOSSES (Lim Losses x Primary Conv Factors, then adjusted for Excess Provision and Redistribution)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	1,508	0	0	41,258	0	38,667
01/01/07 - 12/31/07	0	0	0	0	60,164	0	89,103	0	151,430
01/01/08 - 12/31/08	0	0	0	0	0	0	13,807	0	49,345
01/01/09 - 12/31/09	0	0	0	0	0	0	40,914	0	85,150
01/01/10 - 12/31/10	0	0	0	0	323,762	117,067	156,187	57,947	294,849

FEDERAL ACT - EXPECTED UNLIM LOSSES (Lim Losses x Primary Conv Factors, then adjusted for Excess Provision and Redistribution)

Policy Period	Fatal Likely	Fatal Not-Likely	Permanent Total	Permanent Partial Likely	Permanent Partial Not-Likely	Temporary Total Likely	Temporary Total Not-Likely	Medical Likely	Medical Not-Likely
01/01/06 - 12/31/06	0	0	0	0	0	0	0	0	0
01/01/07 - 12/31/07	0	0	0	0	0	0	0	0	0
01/01/08 - 12/31/08	0	0	0	0	0	0	0	0	0
01/01/09 - 12/31/09	0	0	0	0	0	0	0	0	0
01/01/10 - 12/31/10	0	0	0	0	0	0	0	0	320

STATE ACT - SECONDARY CONVERSION FACTORS (Appendix B-IV, Section A-3)

	INDUSTRY GROUP: F-Class
Policy Period	
01/01/06 - 12/31/06	1.187
01/01/07 - 12/31/07	1.187
01/01/08 - 12/31/08	1.187
01/01/09 - 12/31/09	1.187
01/01/10 - 12/31/10	1.187

FEDERAL ACT - SECONDARY CONVERSION FACTORS (Appendix B-IV, Section A-3)

	INDUSTRY GROUP: F-Class
Policy Period	
01/01/06 - 12/31/06	1.187
01/01/07 - 12/31/07	1.260
01/01/08 - 12/31/08	1.250
01/01/09 - 12/31/09	1.282
01/01/10 - 12/31/10	1.187



RHODE ISLAND
APPENDIX B-IV

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 6824

TOTAL - PAYROLL, FINAL CONVERTED LOSSES

Policy Period	Payroll	Indemnity Likely	Indemnity Not-Likely	Medical Likely	Medical Not-Likely	Total Indemnity	Total Medical	Total
01/01/06 - 12/31/06	4,310,984	1,790	48,973	0	45,898	50,763	45,898	96,661
01/01/07 - 12/31/07	3,737,550	0	177,180	0	179,747	177,180	179,747	356,927
01/01/08 - 12/31/08	4,214,237	0	16,389	0	58,573	16,389	58,573	74,962
01/01/09 - 12/31/09	4,052,991	0	48,565	0	101,073	48,565	101,073	149,638
01/01/10 - 12/31/10	3,858,542	138,959	569,699	68,783	350,366	708,658	419,149	1,127,807
Total	20,174,304	140,749	860,806	68,783	735,657	1,001,555	804,440	1,805,995
INDICATED PURE PREMIUM						4.965	3.987	8.95

The present on rate level pure premiums are developed by adjusting the pure premiums underlying the current loss cost by the conversion factors. The derivation of the present on rate level pure premiums for the above captioned classification follows:

	Indemnity	Medical	Total
Pure Premiums Underlying Current Loss Cost	3.637	4.223	7.86
Conversion Factors (Section B)	1.001	1.010	xxx
PURE PREMIUMS PRESENT ON RATE LEVEL (Underlying Pure Premiums) x (Conversion Factor)	3.641	4.265	7.91



RHODE ISLAND APPENDIX B-IV

DERIVATION OF PROPOSED ADVISORY LOSS COST - CODE 6824 Industry Group - F-Class. Hazard Group - F.

The loss cost for the above captioned classification is then derived as shown in the following exhibit:

	<u>Indemnity</u>	<u>Medical</u>	<u>Total</u>
1. Indicated Pure Premium	4.965	3.987	8.95
2. Pure Premium Indicated by National Relativity	3.491	4.566	8.06
3. Pure Premium Present on Rate Level	3.641	4.265	7.91
4. State Credibilities	17%	26%	xxx
5. National Credibilities	41%	37%	xxx
6. Residual Credibilities = 100% - (4) - (5)	42%	37%	xxx
7. Derived by Formula Pure Premiums = (1) x (4) + (2) x (5) + (3) x (6)	3.805	4.304	8.11
8. Test Correction Factor	1.0000	1.0000	xxx
9. Underlying Pure Premiums = (7) x (8) *	3.806	4.304	8.11
10. Ratio of Manual to Standard Premium			1.064
11. Loss Cost = (9) x (10)			8.63
12. Loss Cost Within Swing Limits			8.63
Current Loss Cost x Swing Limits			
a) Lower bound = 8.20 x 0.850 = 6.97			
b) Upper bound = 8.20 x 1.150 = 9.43			
13. Pure Premiums Underlying Proposed Loss Cost* = ((13TOT) / (9TOT)) x (9) , (13TOT) = (12) / (10)	3.806	4.304	8.11
14. Disease, Catastrophe and/or Miscellaneous Loadings			0.00
15. Final Loaded Loss Cost			8.63

* Indemnity pure premium is adjusted for the rounded total pure premium:
Indemnity Pure Premium = Total Pure Premium - Medical Pure Premium



RHODE ISLAND

APPENDIX C-I

**Impact By Type of Injury Due to the Increase in the Maximum
Weekly Benefit, Effective September 1, 2013**

<u>Type of Injury</u>	<u>Percentage of Losses *</u>	<u>Effect (%)</u>	
Fatal	1.2%	0.2	
Permanent Total	0.3%	0.2	
Permanent Partial	45.9%	0.1	
<u>Temporary Total</u>	<u>18.0%</u>	<u>0.2</u>	
Total Indemnity	65.4%	0.1	**
<u>Medical</u>	<u>34.6%</u>	<u>0.0</u>	
Total	100.0%	0.1	**

* Projections within indemnity are based on the 24-month period ending 12/31/2009 on the 9/1/2012 law level and developed to an ultimate basis by type of injury. The indemnity/medical split is based on Policy Years 2009, 2010, and 2011 financial call data projected to 9/1/2013.

** Weighted average.



RHODE ISLAND

APPENDIX C-II

LONGSHORE AND HARBOR WORKERS' COMPENSATION ACT LAW MEMO

Impact By Type of Injury Due to the Increase in the Minimum
and Maximum Weekly Benefit, Effective October 1, 2012

<u>Type of Injury</u>	<u>Percentage of Losses*</u>	<u>Effect (%)</u>	
Fatal	2.5%	+ 0.6	
Permanent Total	3.5%	+ 0.4	
Permanent Partial	35.9%	+ 0.2	
<u>Temporary Total</u>	<u>11.7%</u>	<u>+ 0.4</u>	
Total Indemnity	53.6%	+ 0.3	**
<u>Medical</u>	<u>46.4%</u>	<u>0.0</u>	
Total	100.0%	+ 0.2	**

* Nationwide losses under Longshore and Harbor Workers' Act for the three-year policy period ending 12/31/2009 on the 10/1/2011 law level and developed to an ultimate report by type of injury.

** Weighted average.



RHODE ISLAND

APPENDIX C-III

U.S. Longshore and Harbor Workers' Compensation Act Assessment

The F-class and Program II, Option II maritime class voluntary loss costs include the following provision for the federal assessment:

1) Estimated Total Expense Needed for 2013*	123,000,000
2) Compensation Payments Reported (on indemnity only) in 2012*	813,155,807
3) Assessment Rate on Indemnity Losses (1) / (2)	15.1%

Breakdown of Losses Under the Longshore and Harbor Workers Act

4) Indemnity Losses (Combination of 1st through 3rd reports) #	63,433,587
5) Medical Losses (Combination of 1st through 3rd reports) #	54,926,607
6) Total Losses (4) + (5)	118,360,194
7) Assessment Rate on Total Losses { (3) x (4) } / (6)	8.1%

* Source: U.S. Department of Labor

Source: NCCI Workers Compensation Statistical Plan data