State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials -

and Creation of Retrospective Rating Plan Manual Appendix D

Project Name/Number:

Filing at a Glance

Company: NCCI

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and

State Hazard Group Differentials - and Creation of Retrospective Rating Plan Manual

Appendix D

State: Missouri

TOI: 16.0 Workers Compensation

Sub-TOI: 16.0004 Standard WC

Filing Type: Rule

Date Submitted: 07/15/2011

SERFF Tr Num: NCCI-127320322 SERFF Status: Closed-APPROVED

State Tr Num:

State Status: APPROVED
Co Tr Num: R-1403 (BD)

Effective Date 01/01/2012

Requested (New):

Effective Date 01/01/2012

Requested (Renewal):

Author(s): Lesley O'Brien, Alison Herwig, Frank Gnolfo, Roy Wood, Robert Dalton

Reviewer(s): Karen Rimel (primary)

Disposition Date: 08/08/2011
Disposition Status: APPROVED
Effective Date (New): 01/01/2012
Effective Date (Renewal): 01/01/2012

State Filing Description:

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials -

and Creation of Retrospective Rating Plan Manual Appendix D

Project Name/Number: /

General Information

Project Name: Status of Filing in Domicile:
Project Number: Domicile Status Comments:

Reference Organization: Reference Number:
Reference Title: Advisory Org. Circular:

Filing Status Changed: 08/08/2011

State Status Changed: 08/08/2011 Deemer Date:

Created By: Frank Gnolfo Submitted By: Frank Gnolfo

Corresponding Filing Tracking Number:

State TOI: 16.0 Workers Compensation State Sub-TOI: 16.0004 Standard WC

Filing Description:

This item update Appendix A-Table of Expected Loss Ranges and the Hazard Group Differentials (commonly referred to as Relativities), and creates Appendix D - Basic Premium Factor Calculation Example in NCCI's 2009 Edition of the Retrospective Rating Plan Manual for Workers Compensation and Employers Liability Insurance

Company and Contact

Filing Contact Information

Roy Wood, State Relations Executive roy_wood@ncci.com 11430 Gravois Road 314-843-4001 [Phone] Suite 310 314-842-3188 [FAX]

St. Louis, MO 63126

Filing Company Information

NCCI CoCode: State of Domicile: Florida

901 Peninsula Corporate Circle Group Code: Company Type:
Boca Raton, FL 33487 Group Name: State ID Number:

(561) 893-3186 ext. [Phone] FEIN Number: 65-0439698

Filing Fees

Fee Required? No Retaliatory? No

Fee Explanation:

State Specific

NAIC Number: RO99985

Have you reviewed the General Instructions document? (yes/no)(General Instructions updated 9/14/07): Yes

If this is a rate filing, was rate data added on the rate/rule schedule? (yes/no): No

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials - and Creation of Retrospective Rating

Plan Manual Appendix D

Project Name/Number: /

Correspondence Summary

Dispositions

Status	Created By	Created On	Date Submitted
APPROVED	Karen Rimel	08/08/2011	08/08/2011

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials - and Creation of Retrospective Rating

Plan Manual Appendix D

Project Name/Number: /

Disposition

Disposition Date: 08/08/2011 Effective Date (New): 01/01/2012 Effective Date (Renewal): 01/01/2012

Status: APPROVED

Comment:

Rate data does NOT apply to filing.

Schedule	Schedule Item	Schedule Item Status	Public Access	
Supporting Document	Filing Memorandum	REVIEWED	Yes	
Rate	Exhibit 1	APPROVED	Yes	
Rate	Exhibit 2	APPROVED	Yes	
Rate	Exhibit 3	APPROVED	Yes	
Rate	Exhibit 4	APPROVED	Yes	

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials - and Creation of Retrospective Rating

Plan Manual Appendix D

Project Name/Number: /

Rate/Rule Schedule

Item No.	Schedule Item Status	Exhibit Name	Rule # or Page #	Rate Action	Previous State Filing Number	Attachments
1	APPROVED 08/08/2011	Exhibit 1	Appendix A	Replacement	R-1401	R-1403 Exhibit 1.pdf
2	APPROVED 08/08/2011	Exhibit 2	State Hazard Group Differentials	Replacement	R-1401	R-1403 Exhibit 2.pdf
3	APPROVED 08/08/2011	Exhibit 3	Description	Replacement	R-1401	R-1403 Exhibit 3 MO.pdf
4	APPROVED 08/08/2011	Exhibit 4	Appendix D	New		R-1403 Exhibit 4.pdf

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials - and Creation of Retrospective Rating

Plan Manual Appendix D

Project Name/Number:

Attachment R-1403 Exhibit 4.pdf could not be reproduced here for the following reason: No message found for trailer.not.found

ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS—EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS—AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D

EXHIBIT 1

RETROSPECTIVE RATING PLAN MANUAL—2009 EDITION APPENDIX A

2012—TABLE OF EXPECTED LOSS RANGES

(Applies in: AK, AL, AR, AZ, CO, CT, DC, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VT, WI)

Expected		Expected		Expected	
Loss	Range	Loss	Range	Loss	Range
Group	Rounded Values	Group	Rounded Values	Group	Rounded Values
Отобр	rtouriaca valaco	Огоар	rtourided values	Стоир	rtourided values
95	1,069 — 1,668	65	89,596 — 96,768	35	1,117,459 — 1,254,650
94	1,669 — 2,469	64	96,769 — 104,515	34	1,254,651 — 1,408,687
93	2,470 — 3,262	63	104,516 — 112,881	33	1,408,688 — 1,606,329
92	3,263 — 4,312	62	112,882 — 121,917	32	1,606,330 — 1,846,373
91	4,313 — 5,608	61	121,918 — 131,677	31	1,846,374 — 2,122,290
90	5,609 — 6,774	60	131,678 — 142,246	30	2,122,291 — 2,439,441
89	6,775 — 8,175	59	142,247 — 153,803	29	2,439,442 — 2,899,798
88	8,176 — 9,490	58	153,804 — 166,063	28	2,899,799 — 3,467,527
87	9,491 — 11,016	57	166,064 — 178,922	27	3,467,528 — 4,146,414
86	11,017 — 12,778	56	178,923 — 192,782	26	4,146,415 — 5,111,668
85	12,779 — 14,451	55	192,783 — 207,716	25	5,111,669 — 6,504,746
84	14,452 — 16,337	54	207,717 — 224,594	24	6,504,747 — 8,277,480
83	16,338 — 18,450	53	224,595 — 242,913	23	8,277,481 — 10,577,165
82	18,451 — 20,529	52	242,914 — 262,733	22	10,577,166 — 13,534,484
81	20,530 — 22,841	51	262,734 — 284,159	21	13,534,485 — 17,318,654
80	22,842 — 25,410	50	284,160 — 306,638	20	17,318,655 — 22,160,857
79	25,411 — 28,271	49	306,639 — 330,841	19	22,160,858 — 28,356,911
78	28,272 — 31,196	48	330,842 — 357,128	18	28,356,912 — 38,897,361
77	31,197 — 34,345	47	357,129 — 388,536	17	38,897,362 — 57,528,883
76	34,346 — 37,816	46	388,537 — 422,704	16	57,528,884 — 85,084,766
75	37,817 — 41,556	45	422,705 — 459,879	15	85,084,767 — 125,839,689
74	41,557 — 45,495	44	459,880 — 502,548	14	125,839,690 — 186,115,898
73	45,496 — 49,808	43	502,549 — 549,895	13	186,115,899 — 275,263,927
72	49,809 — 54,536	42	549,896 — 601,708	12	275,263,928 — 430,893,183
71	54,537 — 59,530	41	601,709 — 663,309	11	430,893,184 — 681,845,588
70	59,531 — 64,935	40	663,310 — 733,021	10	681,845,589 — 1,078,952,801
69	64,936 — 70,826	39	733,022 — 810,061	9	1,078,952,802 — & over
68	70,827 — 76,791	38	810,062 — 895,197		, , , = ,==
67	76,792 — 82,946	37	895,198 — 995,262		
66	82,947 — 89,595	36	995,263 — 1,117,458		

ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS—EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS—AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D

EXHIBIT 2

RETROSPECTIVE RATING PLAN MANUAL—2009 EDITION STATE SPECIAL RATING VALUES 1. HAZARD GROUP DIFFERENTIALS

1. HAZARD GROUP DIFFERENTIALS
(Applies in: AK, AL, AR, AZ, CO, CT, DC, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, TX, UT, VT, WI)

AK 1.74 1.28 1.14 1.03 0.88 0.72 0. AL 1.69 1.25 1.11 1.00 0.86 0.70 0. AR 1.87 1.38 1.22 1.10 0.93 0.75 0. AZ 1.84 1.36 1.20 1.08 0.91 0.73 0. CO 2.00 1.50 1.34 1.21 1.04 0.85 0. CT 1.56 1.14 1.02 0.91 0.78 0.63 0. DC 1.80 1.32 1.17 1.06 0.90 0.74 0. GA 1.55 1.16 1.03 0.93 0.79 0.65 0. HI 2.18 1.60 1.43 1.29 1.10 0.91 0.74 0. IA 1.77 1.31 1.18 1.06 0.91 0.74 0. ID 1.82 1.36 1.22 1.11 0.95 0.79 0. IL 1.31 0.99 0.90 0.81 0.70 0.57 0. IN 1.97 1.48 1.33 1.21 1.04 0.87 0. KS 1.74 1.30 1.16 1.05 0.89 0.73 0. KY 1.80 1.33 1.18 1.06 0.90 0.74 0. MD 1.69 1.25 1.11 1.00 0.90 0.74 0. MD 1.69 1.25 1.11 1.00 0.90 0.74 0. ME 1.72 1.26 1.13 1.02 0.87 0.70 0. ME 1.72 1.26 1.13 1.02 0.87 0.70 0. MG 1.96 1.49 1.33 1.20 1.03 0.84 0.70 MG 1.96 1.49 1.33 1.20 1.03 0.84 0.70 MG 1.96 1.49 1.33 1.20 1.03 0.84 0.70 MG 1.37 1.03 0.92 0.82 0.77 0.72 0. MG 1.37 1.03 0.92 0.82 0.77 0.70 NC 1.37 1.03 1.16 1.06 0.90 0.73 0. MG 1.96 1.49 1.33 1.20 1.03 0.84 0.70 MG 1.96 1.49 1.33 1.20 1.03 0.84 0.0 MG 1.96 1.49 1.33 1.10 0.97 0.80 0. MG 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.05 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NN 1.75 1.29 1.14 1.05 0.89 0.74 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.		Hazard Group						
AL 1.69	State	Α	В	С	D	E	F	G
AL	A 1/	4 74	4.00	4.44	4.00	0.00	0.70	0.55
AR								0.55
AZ 1.84 1.36 1.20 1.08 0.91 0.73 0. CO 2.00 1.50 1.34 1.21 1.04 0.85 0. CT 1.56 1.14 1.02 0.91 0.78 0.63 0. DC 1.80 1.32 1.17 1.06 0.90 0.74 0. GA 1.55 1.16 1.03 0.93 0.79 0.65 0. HI 2.18 1.60 1.43 1.29 1.10 0.91 0. IA 1.77 1.31 1.18 1.06 0.91 0.74 0. ID 1.82 1.36 1.22 1.11 0.95 0.79 0. IL 1.31 0.99 0.90 0.81 0.70 0.57 0. IN 1.97 1.48 1.33 1.21 1.04 0.87 0. KS 1.74 1.30 1.16 1.05 0.89<								0.53
CO 2.00 1.50 1.34 1.21 1.04 0.85 0. CT 1.56 1.14 1.02 0.91 0.78 0.63 0. DC 1.80 1.32 1.17 1.06 0.90 0.74 0. GA 1.55 1.16 1.03 0.93 0.79 0.65 0. HI 2.18 1.60 1.43 1.29 1.10 0.91 0.74 0. IA 1.77 1.31 1.18 1.06 0.91 0.74 0. ID 1.82 1.36 1.22 1.11 0.95 0.79 0. IL 1.31 0.99 0.90 0.81 0.70 0.57 0. IN 1.97 1.48 1.33 1.21 1.04 0.87 0. KS 1.74 1.30 1.16 1.05 0.89 0.73 0. KY 1.80 1.33 1.18 1.06<								0.55
CT 1.56 1.14 1.02 0.91 0.78 0.63 0. DC 1.80 1.32 1.17 1.06 0.90 0.74 0. GA 1.55 1.16 1.03 0.93 0.79 0.65 0. HI 2.18 1.60 1.43 1.29 1.10 0.91 0.74 0. IA 1.77 1.31 1.18 1.06 0.91 0.74 0. ID 1.82 1.36 1.22 1.11 0.95 0.79 0. IL 1.31 0.99 0.90 0.81 0.70 0.57 0. IN 1.97 1.48 1.33 1.21 1.04 0.87 0. KS 1.74 1.30 1.16 1.05 0.89 0.73 0. KY 1.80 1.33 1.18 1.06 0.90 0.74 0.61 0. MD 1.69 1.25 1.11<								0.53
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IA								0.49
ID								0.70
IL								0.57
IN			1.36		1.11		0.79	0.60
KS 1.74 1.30 1.16 1.05 0.89 0.73 0. KY 1.80 1.33 1.18 1.06 0.90 0.74 0. LA 1.44 1.07 0.95 0.86 0.74 0.61 0. MD 1.69 1.25 1.11 1.00 0.85 0.70 0. ME 1.72 1.26 1.13 1.02 0.87 0.72 0. MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NH 1.57 1.15 1.03 0.93 0.79<			0.99		0.81			0.44
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LA 1.44 1.07 0.95 0.86 0.74 0.61 0. MD 1.69 1.25 1.11 1.00 0.85 0.70 0. ME 1.72 1.26 1.13 1.02 0.87 0.72 0. MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87<	KS	1.74	1.30	1.16	1.05	0.89	0.73	0.56
MD 1.69 1.25 1.11 1.00 0.85 0.70 0. ME 1.72 1.26 1.13 1.02 0.87 0.72 0. MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NM 1.57 1.15 1.03 0.93 0.79 0.65 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80<	KY	1.80	1.33	1.18	1.06	0.90	0.74	0.54
MD 1.69 1.25 1.11 1.00 0.85 0.70 0. ME 1.72 1.26 1.13 1.02 0.87 0.72 0. MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NM 1.57 1.15 1.03 0.93 0.79 0.65 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80<	LA	1.44	1.07	0.95	0.86	0.74	0.61	0.47
ME 1.72 1.26 1.13 1.02 0.87 0.72 0. MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NM 1.57 1.15 1.03 0.93 0.79 0.65 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.		1.69	1.25		1.00	0.85	0.70	0.54
MI 1.85 1.37 1.23 1.12 0.97 0.80 0. MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NW 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.	ME	1.72	1.26	1.13	1.02	0.87	0.72	0.55
MO 1.96 1.49 1.33 1.20 1.03 0.84 0. MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NW 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.	MI		1.37	1.23	1.12	0.97	0.80	0.61
MS 1.86 1.38 1.23 1.11 0.95 0.78 0. MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.	MO		1.49				0.84	0.64
MT 1.79 1.33 1.17 1.06 0.90 0.73 0. NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.	MS		1.38		1.11		0.78	0.60
NC 1.37 1.03 0.92 0.82 0.71 0.57 0. NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.			1.33		1.06		0.73	0.54
NE 1.75 1.30 1.16 1.04 0.89 0.72 0. NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.								0.44
NH 1.57 1.15 1.03 0.93 0.79 0.65 0. NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.								0.55
NM 1.76 1.30 1.16 1.05 0.89 0.74 0. NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.								0.50
NV 1.75 1.29 1.14 1.03 0.87 0.71 0. OK 1.58 1.18 1.06 0.94 0.80 0.66 0.								0.57
OK 1.58 1.18 1.06 0.94 0.80 0.66 0.								0.53
								0.51
								0.75
								0.67
								0.54
								0.54
								0.55
								0.78
								0.58
								0.55
								0.63

ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS—EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS—AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D

EXHIBIT 3

DEVELOPMENT OF MISSOURI HAZARD GROUP DIFFERENTIALS/RELATIVITIES FOR HAZARD GROUPS A TO G

- **Step 1.** Historical experience is trended, on-leveled, and developed to estimate the severities for each hazard group.
- Step 2. The severities are weighted with the countrywide severities by hazard group using a credibility that varies by state. For this purpose, 155,000 claims are regarded as fully credible and the square root rule is used to compute partial credibilities.
- **Step 3.** Credibility weighted severities for each state hazard group are produced. A new countrywide average severity is calculated by taking the weighted average of the formula for state severities using claim counts as weights.
- Step 4. The relativities are calculated by dividing the countrywide severity by the individual state hazard group severities. The final relativities are derived by capping the indicated relativities at a 15.0% increase or decrease from the prior update.

Step 1	Hazard Group		<u>Missouri</u>	Countrywide
Severities	Α		27,285	32,299
	В		35,169	44,134
	С		39,101	49,538
	D		43,530	54,838
	E		50,364	64,617
	F		61,939	78,535
	G		80,605	103,311
Step 2	Claim Count	=	63,488	
	Credibility	=	(63,488 / 155,000	0) ^ 0.5 = 0.640
Step 3	Hazard Group		<u>Missouri</u>	
Credibility	Α		29,090 = (0.6	40)(27,285) + (0.360)(32,299)
Weighted	В		38,396	
Severities	С		42,858	
	D		47,601	
	E		55,495	
	F		67,913	
	G		88,779	
	Countrywide Ov	/erall:	57,027	
Step 4	Hazard Group		Relativities	
Relativities	Α			027 / 29,090
	В		1.49	
	С		1.33	
	D		1.20	
	Е		1.03	
	F		0.84	
	G		0.64	

Note: The underlying data source for the above calculations is NCCl's **Statistical Plan Manual for Workers Compensation and Employers Liability Insurance (Statistical Plan)**, excluding medical-only claims. The **Statistical Plan** data for each state is adjusted accordingly, as reflected in the data underlying the Excess Loss Factor (ELF) calculation.

State: Missouri Filing Company: NCCI

TOI/Sub-TOI: 16.0 Workers Compensation/16.0004 Standard WC

Product Name: R-1403 2011 Update to Retrospective Rating Plan Parameters - Expected Loss Ranges and State Hazard Group Differentials - and Creation of Retrospective Rating

Plan Manual Appendix D

Project Name/Number: /

Supporting Document Schedules

Satisfied - Item:	Filing Memorandum
Comments:	
Attachment(s):	R-1403 Filing Memorandum.pdf
Item Status:	REVIEWED
Status Date:	08/08/2011

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FILING MEMORANDUM

ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS-EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS-AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D PURPOSE

This item updates Appendix A—Table of Expected Loss Ranges and the Hazard Group Differentials (commonly referred to as Relativities), and creates Appendix D—Basic Premium Factor Calculation Example in NCCl's 2009 Edition of the *Retrospective Rating Plan Manual for Workers Compensation and Employers Liability Insurance*.

BACKGROUND

The Retrospective Rating Plan adjusts a risk's premium for a policy according to the loss experience during the effective period of the policy. At the simplest level, an insured's retrospective premium is determined by the formula $R = (b + cL)^*T$, where:

R	=	Retrospective premium, subject to minimum and maximum amounts
b	II	Basic premium
С	II	Loss conversion factor, generally reflecting loss adjustment expense
L	=	Actual incurred loss during the effective policy period
Т	=	Tax multiplier

The retrospective premium, R, is not known until after the policy has expired and the actual losses are fully developed. The basic premium contains provisions for the expenses of the carrier. It also includes a net insurance charge, which results from the maximum and minimum limitations on the retrospective premium. The net insurance charge reflects the charge to compensate for the possibility that R will exceed the maximum premium amount. It also reflects the savings resulting from the possibility that R will be less than the minimum premium amount. The net insurance charge is the difference between the charge for the maximum and the savings from the minimum.

Expected Loss Ranges

Appendix B—Table of Insurance Charges contains the excess ratios needed to quantify the insurance charge and savings described above. The ratio of the loss limit to expected losses—the entry ratio—is used to look up the values in the Table of Insurance Charges. The charges depend not only on the maximum and minimum subject losses, but also on the size of the insured. This is because the expected variation in losses is lower for larger employers.

As inflation increases claim size, there is an apparent growth in the size of the insured, measured in expected losses, but no real growth in the size of the insured, measured in the expected number of claims. To correct for the impact of loss size inflation, NCCI is proposing that Appendix A—Table of Expected Loss Ranges be updated for the trend in average size of loss. The last time such an update was made was in 2007 (Item R-1396—2007 Update to Retrospective Rating Plan Parameters). The current Table of Expected Loss Ranges is based on a projected annual increase in average loss size of 8.5% from March 26, 2004 to January 1, 2009. NCCI has observed an actual annualized growth in average loss size of 5.5% from March 26, 2004

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ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS-EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS-AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D

to March 5, 2008, and projects an annual growth in average loss size of 5.5% from March 5, 2008 to January 1, 2013. The new table incorporates both of these observed and projected changes in severity.

Hazard Group Differentials

The variation in the loss ratios for employers in the lower hazard groups generally should be smaller than the variation for employers in the higher hazard groups. The Hazard Group Differential factors adjust for this difference by placing lower hazard group employers in a higher Expected Loss Range and higher hazard group employers in a lower Expected Loss Range than would otherwise be the case. This adjustment affects the column selection in Appendix B—Table of Insurance Charges, which then impacts the basic premium portion of the retrospective policy premium. The Hazard Group Differentials should be updated regularly to reflect changes in the circumstances (e.g., state statutory benefit levels, inflation, etc.) underlying each state's severity.

NCCI's 2009 Edition of the Retrospective Rating Plan Manual

In 2009, NCCI filed Item R-1399, which introduced the 2009 Edition of the *Retrospective Rating Plan Manual*. In addition, the 2009 Edition of the *Retrospective Rating Plan Manual User's Guide* was also introduced. This companion product contains nonpremium-impact-related information and is not filed for regulatory approval. Section D of the *User's Guide* contains the calculation of a basic premium factor. NCCI has determined that this calculation should be filed for regulatory approval and included in the *Retrospective Rating Plan Manual* as Appendix D. It will be removed from the *User's Guide*.

PROPOSAL

It is proposed that changes be made, as described in the Background section, to Appendix A—Table of Expected Loss Ranges, and the Hazard Group Differentials/Relativities, and the creation of Appendix D, in NCCI's 2009 Edition of the *Retrospective Rating Plan Manual*. Please note that this item is not being filed in Virginia at this time. The proposed changes will be included in the next loss cost filing.

Exception: In Hawaii, the effective date is determined upon regulatory approval of the individual carrier's election to adopt these changes.

Florida State-Specific

It is proposed that Florida revise Appendix A—Table of Expected Loss Ranges and the Hazard Group Differentials to NCCl's 1984 Edition of the *Retrospective Rating Plan Manual* since the 2009 Edition has not yet been approved in Florida. Also, the creation of Appendix D is not being proposed in Florida since the 1984 Edition of the manual contains the basic premium factor calculation example.

Texas State-Specific

It is proposed that Texas discontinue its state special Appendix D to NCCI's 2009 Edition of the *Retrospective Rating Plan Manual* and adopt the national proposal, which mirrors the Texas version.

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ITEM R-1403—2011 UPDATE TO RETROSPECTIVE RATING PLAN PARAMETERS-EXPECTED LOSS RANGES AND STATE HAZARD GROUP DIFFERENTIALS-AND CREATION OF RETROSPECTIVE RATING PLAN MANUAL APPENDIX D

West Virginia State-Specific

It is proposed that West Virginia adopt only Exhibits 1 & 4 of this item. The Expected Loss Ranges and the Hazard Group Differentials will be included in the next loss cost filing.

IMPACT

Expected Loss Ranges

The proposed changes to the Expected Loss Ranges are necessary to maintain the aggregate expected balance between the retrospectively rated premium and the guaranteed cost premium. If these ranges were not updated, there would be a natural slippage caused by inflation over time because risks would have an apparent growth in size as seen by increasing expected losses, but no real growth in size as seen by their expected number of claims. These changes are expected to be revenue neutral.

Hazard Group Differentials

Retrospective rating should produce premium that is equitably distributed to all insured employers, but, on average, close to the guaranteed cost premium. The object of this change is to maintain the aggregate expected balance, although the impact will vary slightly for each insured employer. For most insured employers electing retrospective rating, the impact on final premium from these changes is expected to be minimal. The improved equity afforded by retrospective rating from this change will result in slightly lower average insurance charges for some insureds, and slightly higher charges for others. However, the statewide impact will be negligible. The program is designed to be revenue-neutral countrywide.

NCCI's 2009 Edition of the Retrospective Rating Plan Manual

No premium impact is expected as a result of the revisions to the 2009 Edition of the *Retrospective Rating Plan Manual*.

IMPLEMENTATION

In order to implement this item, the attached exhibits detail the changes required in NCCI's 2009 Edition of the *Retrospective Rating Plan Manual*. As explained in these exhibits, individual state severities, as well as countrywide severities, are used in the calculation of the relativities. The following is a summary of the exhibits included in this item filing package:

- Exhibit 1 contains Appendix A—Table of Expected Loss Ranges
- Exhibit 2 contains the State Hazard Group Differentials
- Exhibit 3 contains a description of the development of the differentials/relativities
- Exhibit 4 contains the new Appendix D—Basic Premium Factor Calculation Example
- Exhibit 5 contains the Texas state special Appendix D to be discontinued

In all states this item will be implemented effective at 12:01 a.m. on January 1, 2012, applicable to new and renewal voluntary policies only.

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