

State of Wisconsin



Local Income Continuation Insurance Plan Actuarial Review as of December 31, 2012

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I. Overview

The purpose of this report is to summarize our review of the Local Income Continuation Insurance Plan. Included are a brief review of the Plan's experience during 2012, an estimate of the Plan's liability as of December 31, 2012, and an analysis of current funding levels.

In preparing this report, we have relied on claim information provided by Aetna and the Department of Employee Trust Funds ("ETF"). We have not audited this information, but have relied on it as submitted after making reasonableness checks as we deemed appropriate under the circumstances.

The results of this review indicate that the Local Income Continuation Insurance Plan (including supplemental benefits) is in a strong financial position, with assets of \$31.4 million and estimated liabilities of \$5.7 million. The asset balance does not include \$1.0 million in deferred market gains which will be smoothed in over the next four years. We note that the deferred market gains listed here and as used in our financial projections are draft amounts provided by ETF due to the timing of our reports and the finalization of the deferred amounts.

In 2012, plan assets decreased by 1.1%, while estimated liabilities increased 16.2%. This resulted in the plan's annual net fund balance decreasing from 551% of liabilities in 2011 to 454% of liabilities in 2012. As a result of the continued positive funded status of the plan, we recommend contributions not be reinstated at this time.

The remainder of this report summarizes the review in more detail. A number of actuarial assumptions have been made in estimating the Plan's liability. These assumptions are described throughout the report and summarized in Exhibit 1.

II. 2012 Experience Review

Fund Balance

During 2012, the assets of the plan decreased from \$31,777,793 to \$31,431,619. Total revenues were \$979,254 with paid claims and administrative expenses totaling \$1,282,453. These components are shown in the following table along with figures for the previous three years for comparison purposes. The Net Ending Balance does not include \$1.0 million in deferred market gains which will be smoothed in over the next four years.

	2012	2011	2010	2009
Beginning Asset Balance	31,777,793	30,457,781	28,097,196	25,871,414
Closing Adjustments	(42,974)	(52,551)	(11,837)	47,498
Adjusted Beginning Asset Balance	31,734,819	30,405,230	28,085,359	25,918,912
Revenues				
Premium Contributions	318,695	1,926,819	1,898,818	1,839,354
Investment Earnings	660,559	462,901	1,374,714	1,114,527
Total	979,254	2,389,720	3,273,533	2,953,881
Expenses				
Paid Claims	1,122,840	890,905	764,408	644,811
Administrative Expenses	159,613	126,252	136,702	130,787
Total	1,282,453	1,017,157	901,111	775,597
Net Income	(303,200)	1,372,563	2,372,422	2,178,284
Ending Asset Balance	31,431,619	31,777,793	30,457,781	28,097,196
Estimated Liability	5,676,212	4,882,791	3,992,238	3,840,102
Net Fund Balance	25,755,407	26,895,001	26,465,543	24,257,094
Investment Earnings/Mean Ending Balance	2.1%	1.5%	4.8%	4.2%

The following table shows the number of open and closed claims by year incurred and the average net monthly benefit. There was one cancelled claim incurred in 2011 that is not specifically shown in the table, but is included in the 'All Claims' columns below.

Claims By Year of Incurral

Year Incurred	Open Claims		Closed Claims		All Claims*	
	Number	Average Benefit	Number	Average Benefit	Number	Average Benefit
2012	17	\$ 2,675	32	\$ 2,763	49	\$ 2,732
2011	8	1,901	35	1,833	44	1,803
2010	9	1,821	2	2,376	11	1,922
2009	6	866	1	2,638	7	1,119
2008	2	1,050	0	-	2	1,050
2007	0	-	0	-	0	-
2006	2	524	0	-	2	524
2005	6	334	0	-	6	334
2004	5	1,016	0	-	5	1,016
2003	3	1,467	1	134	4	1,134
2002	2	1,070	0	-	2	1,070
2001	0	-	0	-	0	-
2000	2	489	0	-	2	489
1999	0	-	0	-	0	-
1998	0	-	0	-	0	-
1997	1	992	0	-	1	992
1996	1	163	0	-	1	163
Total	64	\$ 1,581	71	\$ 2,255	136	\$ 1,924

* Includes incurred claims which remain open as of 12/31/2012 and claims closing during 2012; does not include incurred claims closed in prior years.

The following table shows the claim count and average net benefit amount for open, closed and total claims, respectively, as of December 31, 2012, and each of the nine prior plan year ends. There was one cancelled claim incurred in 2011 that is not specifically shown in the table, but is included in the 'All Claims' columns below.

Claims By Valuation Date

Plan Year	Open Claims		Closed Claims		All Claims	
	Number	Average Net Benefit	Number	Average Net Benefit	Number	Average Net Benefit
2012	64	\$ 1,581	71	\$ 2,255	136	\$ 1,924
2011	60	1,356	79	2,247	139	1,862
2010	50	1,355	74	2,098	124	1,798
2009	58	1,451	52	2,277	110	1,842
2008	50	1,319	64	2,377	114	1,913
2007	51	1,164	94	866	145	971
2006	62	1,183	62	1,170	124	1,176
2005	52	1,376	49	1,195	101	1,288
2004	37	1,368	47	1,798	84	1,609
2003	27	1,276	48	1,746	75	1,577

III. Estimated Liability as of December 31, 2012

The Plan's liability for outstanding claims under the Local Income Continuation Insurance program was estimated in two parts — reported claims and incurred but unreported claims. The following paragraphs summarize the method used and results.

Reported Claims

Disabled life reserve factors were calculated using the 1987 Commissioner's Group Basic Disability table adjusted for the State of Wisconsin's own termination experience. These factors represent the present value of future payments, at 7.2% interest, to a disabled person with a monthly benefit of \$1.00. In 2010, the Employee Trust Funds Board reduced the investment return assumption relied upon by the Wisconsin Retirement System ("WRS") from 7.8% to 7.2%, which has since remained at 7.2%. For consistency, and at the direction of ETF personnel, the valuation interest rate is tied to the WRS valuation rate; therefore a 7.2% discount rate was used in the December 31, 2012, valuation. The factors are indexed by age at disablement, duration of disablement, and duration to the end of the benefit period.

Aetna provided a listing of those persons known to be disabled as of December 31, 2012. The age at disablement, duration of disability and benefit end date, based on the maximum allowable duration of benefits under the plan, was calculated for each individual. The appropriate factors were then multiplied by the amount of benefit for each disabled person. The results were summarized by year incurred and in total.

For disabilities that last over one year, an additional \$75 per month is included in the normal benefit amount for the purpose of defraying medical costs. This supplemental benefit was effective January 1, 2002, for all claims in pay status. A liability was added for those claims incurred in 2012 representing the probability that claims will continue beyond the first year and the present value of the additional benefit. The liability for the \$75 supplemental benefit is already included in the liability for claims over one year in duration.

Incurred But Unreported Claims

In addition to those claims reported as of December 31, 2012, there presumably are other claims incurred prior to that date but which are not yet reported. The Plan's liability for long-term disability claims begins on the date an employee is disabled, even though the employee is not eligible for payments during the waiting period or has not yet filed a claim. Besides the waiting period, delays in the reporting and processing of claims normally occur. Thus, an estimate of the additional liability for claims incurred but not reported as of the valuation date is necessary.

We performed a historical recast analysis from the Plan's own experience to determine the sufficiency of our past IBNR methodology. The analysis indicated that our historical established IBNR has been conservative. As a direct result, we transitioned the IBNR methodology to be a fixed 15% of the reported liability. The fixed percentage was established based on the observed historical levels of IBNR claims as a percent of the reported claim liability within the recast analysis. We will monitor the effectiveness of the 15% factor over time and make adjustments as needed.

Results

The total estimated liability as of December 31, 2012, for the Local Income Continuation Insurance program is \$5,676,212, developed as follows:

Reported Claim Liability	\$4,907,435
<u>\$75 Supplement</u>	<u>28,402</u>
Total Reported Liability	4,935,836
<u>Incurred But Not Reported Liability</u>	<u>740,375</u>
Total Liability	\$5,676,212

When compared to their respective liabilities as of December 31, 2011, the December 31, 2012, total reported claim liability increased 21.0% and the incurred but not reported liability decreased 7.9%, resulting in a 16.2% increase in the total liability. The increase in the reported liability is due to the combined effect of a 6.7% increase in the count of open claims and 16.6% increase in the average net benefit per open claim, tempered by a change in the composition and characteristics of the average claimant in the open claim cohort. The decrease in the incurred but not reported liability is due to the change in the methodology used to calculate the IBNR. As a result, the total liability is 16.2% greater than the liability determined as of December 31, 2011.

Exhibit 2 contains a breakdown of the \$4,935,836 reported liability by year of disability.

IV. Analysis of Funding Levels

The Local Income Continuation Insurance Plan continues to be in a strong financial position with assets of \$31,431,619 and estimated liabilities of \$5,676,212 which produces a net fund balance of \$25,755,407.

A reasonable long-term objective would be to maintain a net fund balance of more than 100% of the estimated liabilities as a hedge against future adverse experience. Substantial year-to-year fluctuations can occur under disability income programs, particularly for the relatively small size of this program.

Maintaining a large funding balance in excess of estimated liabilities, perhaps 200% in excess, is prudent.

The excess now represents 454% of the estimated liabilities. The following table shows the net fund balance as a percentage of the estimated liability by year. The table demonstrates the fluctuating, although consistently sufficient, excess funding from year to year.

	2012	2011	2010	2009	2008	2007
Assets	31,431,619	31,777,793	30,457,781	28,097,196	25,871,414	24,150,025
Estimated Liability	5,676,212	4,882,791	3,992,238	3,840,102	3,886,827	3,822,315
Net Fund Balance	25,755,407	26,895,001	26,465,543	24,257,094	21,984,587	20,327,710
Percentage	454%	551%	663%	632%	566%	532%

The employer's premium contribution rate was reduced from .375% of covered payroll to .25% effective March 1, 2002. Effective 2012, all premium contributions were indefinitely waived. The \$75 Supplemental Add-on benefit was effective January 1, 2002.

Historically, the investment earnings of the plan have been large enough to fund the paid claims and administrative expenses of the plan. As a result, the assets of the plan had continued to increase over time. The 2012 investment earnings dipped below the paid claims and administrative expenses of the plan for the second year in a row. The low investment earnings, coupled with the waiver of premium effective in 2012 resulted in the the assets decreasing slightly from December 31, 2011 to December 31, 2012. Although the assets experienced a year over year decrease, due to the continued large positive funded status of the plan, we are recommending a continuation of the waiver of premium with reinstatement when necessary pending the annual review of the plan's funded status.

Exhibit 1

Elimination Period — 90 days average. Actual waiting period can vary between 30 and 180 days.

Benefit Period — The maximum duration of benefits for disabled insured employees is:

Age at Disablement	Maximum Duration of Benefits in Years
61 or Younger	To age 65
62	3.50 years
63	3.00 years
64	2.50 years
65	2.00 years
66	1.75 years
67	1.50 years
68	1.25 years
69	1.00 years

In no event are benefits payable beyond the 70th birthday.

Termination Rates — Deloitte Consulting completed a claim termination rate experience study using WRS disability program claims experience for claims incurred 5/13/2006 – 12/31/2010. The results of the claim termination rate study supported a reduction in the termination rate adjustment factor for the first and second year of disablement (from 280% and 260%, respectively). The percentage of the 1987 Commissioner's Basic Disability Table three month elimination period termination rates based on the State of Wisconsin's own experience are shown below:

Duration of Disablement	Termination Rate Adjustment
First Year	250%
Second Year	250%
Third Year	240%
Fourth Year	220%
Fifth Year	200%
Sixth Year	180%
Seventh Year	160%
Eighth Year	140%
Ninth Year	120%
Tenth Year & Later	100%

Interest — 7.2% per year.

IBNR — 15% of the liability for reported claims

Contingency Margins — None.

Exhibit 2

Reported Claim Liability by Year of Disability

Open Claims as of December 31, 2012 ¹								
Year of Disability	Count	Gross Benefit	Offset Amount	Net Benefit	Estimated Liability	75 Supp	Ave. Benefit	Est'd Liability
2012	17	\$ 48,438	\$ 2,968	\$ 45,469	\$ 1,201,921	\$28,402	\$ 2,675	\$ 1,230,323
2011	8	23,413	8,206	15,207	751,717		1,901	751,717
2010	9	25,113	8,724	16,388	1,059,810		1,821	1,059,810
2009	6	21,888	16,690	5,198	467,381		866	467,381
2008	2	6,150	4,050	2,100	14,069		1,050	14,069
2006	2	5,150	4,101	1,049	107,986		524	107,986
2005	6	13,450	11,443	2,007	123,814		334	123,814
2004	5	12,375	7,293	5,082	395,346		1,016	395,346
2003	3	10,049	5,646	4,402	445,336		1,467	445,336
2002	2	3,150	1,010	2,140	139,796		1,070	139,796
2000	2	4,275	3,297	978	102,145		489	102,145
1997	1	1,942	950	992	97,799		992	97,799
1996	1	525	362	163	314		163	314
Total	64	\$175,915	\$4,740	\$101,175	\$ 4,907,435	\$ 28,402	\$1,581	\$ 4,935,836

¹Open Claims presented by year of disability. For certain disability years (e.g. 2007, 1999, etc.), no claims remained open as of December 31, 2012.



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