

BlueCross BlueShield of Tennessee, INC

Actuarial Memorandum for Rates Effective 1/1/2016

Products and Plans:

Bronze

B01 – B02, B04 – B07

Silver

S01 – S02, S04 – S05, S08 – S16, S18 – S19

Gold

G01, G05 – G08, G10 – G11

Platinum

P01 – P04

MSP PPO

B04, S09, S11, S12, G08, G11

Company Identification

Company Legal Name: BlueCross BlueShield of Tennessee, Inc.

State: Tennessee

HIOS Issuer ID: 14002

Market: Individual Under 65 Marketplace

Multi-State Plan

Individual Under 65 Non-Marketplace

Effective Date: 1/1/2016

Company Contact

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1. General Information

The purpose of this actuarial memorandum is to demonstrate the compliance of the premium rates associated with Qualified Health Plans offered by BlueCross BlueShield of Tennessee (BCBST), HIOS issuer ID 14002, inside and outside of the Federally Facilitated Exchange (Marketplace) for all regions of the state of Tennessee with the requirements described by 45 CFR 156.80 and participation in the Office of Personnel Management Multi-State Plan Program under section 1334 of the Affordable Care Act (MSP).

Worksheet 2 of the Unified Rate Review Template (URRT) provides information related to the calculation of the Plan Adjusted Index Rate for all plans to be offered by BCBST in the Individual Under 65 market in Tennessee for Marketplace and Non-Marketplace and in the Multi-State Plan Program.

The Rates Table Template shows all available Consumer Adjusted Premium Rates available in 2016.

2. Proposed Rate Change

The rate change proposed in this filing is an average increase of 36.3%, not including the impact of aging. The main reason for the increase is single risk pool experience that was higher than expected in prior rates. Each individual will also see additional rate changes due to aging. Rate changes vary by plan for the following reasons:

- Variation in the expected loss ratio of plans by metallic level.
- Variation in the expected paid to allowed ratio by plan design.
- Rate changes may be absent only when the related policy forms are new to the market and have no associated rate history.

3. Experience Period Premiums and Claims

The experience period was based on incurred dates between 1/1/14 and 12/31/14, paid thru 2/28/15. The tables below show Incurred (Paid) and Allowed claims amounts as well as premiums in the experience period, as of the paid date.

Incurred (Paid) Claim Amounts in the Experience Period	
Claims Processed by BCBST	503,890,593
Claims Processed Outside the BCBST Claim System	131,050,864
Claims Incurred but Not Reported As of 2/28/2015	10,744,696
Total Estimated Paid Amounts	645,686,153

Allowed Claims Amount in the Experience Period	
Claims Processed by BCBST	707,257,689
Claims Processed Outside the BCBST Claim System	179,465,635
Claims Incurred but Not Reported As of 2/28/15	13,856,722
Total Estimated Allowed Amounts	900,580,046

Premiums in Experience Period	
Premiums Earned in the Experience Period	517,050,069
Estimated MLR Rebate	0
Premiums Net of Rebate	517,050,069

The Estimated MLR Rebate is based on the estimate of the MLR Rebate done in conjunction with the year-end financial statement for the BCBST Individual Under 65 Line of Business. This estimate is prepared using the same methodology as is used for the HHS MLR Rebate Calculation, except that Incurred But Not Reported claim completion factors are applied to claims paid through 3/31/15 to estimate total claims incurred for calendar year 2014.

Claims Processed Outside the BCBST Claims System represent payments for prescription drug coverage by contracted Pharmacy Benefit Managers net of pharmacy rebates and payments for pediatric vision coverage by contracted Vision Vendor.

Allowed Claim Amounts are the total allowable reimbursements for covered expenses as captured directly from claim payment records.

Incurred but Not Reported Claims are based on completion factors developed using claims for groups having 25 or fewer employees insured by BCBST. The completion pattern of this block of claims is substantially consistent with the block whose experience is reported in this filing. Standard Actuarial Valuation methodology based on analysis of historical relationships of the timing of claim incurred dates and payment dates was used to develop the completion factors. The same completion factors were used for both Allowed Claims and Incurred (Paid) Claims. The Incurred But Not Reported claims for the experience period are consistent with historical Incurred But Not Reported amounts and were neither unusually high nor unusually low.

4. Benefit Categories

Claims in Worksheet 1, Section II are assigned Benefit Categories using the following methodology:

- Inpatient: Non-Capitated costs billed by a facility for covered services related to a stay in the facility of at least twenty-four hours. Utilization measured by admits.
- Outpatient: Non-Capitated costs billed by a facility for covered services associated with a stay of less than twenty-four hours. Utilization measured by visits.
- Professional: Non-Capitated costs billed by a healthcare practitioner rather than a facility, for covered services not included in the “Other Medical” category. Utilization measured by visits.
- Other Medical: Non-Capitated costs for covered services associated with Ambulance, Home Health Care, Hospice, Durable Medical Equipment, Prosthetics, Medical Supplies, and Pediatric Dental. Utilization non-standard, thus labeled ‘Other’ in the URRT.
- Capitation: Includes all services provided under one or more capitated arrangements. Utilization non-standard, thus labeled ‘Other’ in the URRT.
- Prescription Drug: Costs for covered drugs dispensed by a pharmacy net of drug rebates. Utilization measured by prescriptions.

5. Projection Factors

Insured Population Morbidity Changes

Claims costs were adjusted for the following reasons:

- ACA guaranteed issue requirements
- Restrictions on the recognition of pre-existing conditions
- 3:1 age factor limit
- Elimination of the ability to rate for health risk
- Reflect anticipated morbidity of new entrants

These expected increases were only applied to the portion of the experience that is not single risk pool compliant.

Demographic Changes

Age, gender, and region mix in the projection period were assumed to be the same as the experience period population, except for the effects described in the morbidity changes section above. Thus, no additional adjustment for demographic changes was applied.

Other Adjustments

Pharmacy claim costs were projected to decrease in the projection period due to cost savings initiatives instituted during or after the experience period.

Trend Factors:

Trend factors were used to project the experience period costs to the rating period. Trend factors were developed based on projections of historical utilization patterns observed in BCBST Group Insured claims adjusted for expected effects of internal and external factors that affect utilization, such as medical management initiatives and changes to the global economic environment, and on projections of historical unit cost change patterns with adjustments applied to recognize anticipated network contract and mix changes. The Trend Factors also include recognition of leveraging to reflect the effect of fixed cost sharing components being applied to increasing allowed costs.

Data was normalized to neutralize the effects of population demographic changes and the effects of utilization changes attributable to variations in the benefit coverage. Adjustments were also applied to neutralize the effects of varying seasonality patterns and non-recurring one-time events.

6. Credibility Manual Rate Development

BCBST Individual Under 65 experience is of sufficient volume and consistency with basic coverage elements to be considered credible without additional manual rate adjustment. No additional manual rate was developed.

7. Credibility of Experience

The exhibited BCBST Individual Under 65 experience represents more than \$900 million in allowed claims for more than 2.0 million member months. The projected population is consistent with the experience population in regards to covered benefits, demographics, and geography after application of the morbidity adjustments described in Section 5 above. For these reasons, the experience is sufficiently credible. Applicable actuarial standards, including Actuarial Standard of Practice #25, were considered in forming this opinion.

8. Paid to Allowed Ratio

Paid to allowed ratios by plan are detailed in Appendix A.

9. Risk Adjustment and Reinsurance

Under the single risk pool pricing requirements, adjustments for expected Risk Adjustment payments (or collections), and net Reinsurance Recoveries are to be made as a market-wide adjustment to the projected Index Rate. The risk level of the BCBST Individual Under 65 segment, including the morbidity changes described in Section 5, is expected to be below the average market risk. Therefore, a risk adjustment collection is expected to occur and the adjustment applied to the Index Rate is a net Risk Adjustment collection amount of \$13.09 per member per month. This amount is net of the Risk Adjustment fee of \$1.75 per member per year, which is \$0.15 per member per month. In addition, the net Reinsurance Recoveries

of \$17.58 per member per month was applied to the Index Rate. This amount is net of the contribution fee of \$27.00 per member per year, which is \$2.25 per member per month. Both were applied to the Index Rate when developing the Market Adjusted Index Rate and more information can be found in Section 14.

10. Non-Benefit Expenses and Profit & Risk

Administrative Expense Load

Projected 2016 Corporate Administrative Expenses and corporate overhead dollars were allocated to the Individual Under 65 business according to the proportion of expenses and overhead attributable to the administration of this coverage as a fixed dollar value. Those dollar values were then converted to a percentage of premium according to the expected premium. That percentage was applied to the premium for each plan as part of the administrative expense load.

Projected broker commissions were attributed to each metallic level as a dollar PMPM. Those PMPMs were then converted to percentage of premiums according to the expected premium for each metallic level. That percentage, which varies by metallic level, was applied to the premium for each plan as part of the administrative expense load.

Contribution to Surplus

The Plan Adjusted Index Rates reflect no Contribution to Surplus. The resulting loss ratios from this Contribution to Surplus satisfy the ACA MLR requirements.

Taxes and Fees

The taxes and fees included in the rating are shown in the table below:

Health Insurance Provider Tax	1.60%
Exchange User Fee	2.41%
Comparative Effectiveness Fee	0.04%
State Premium Tax	1.75%

Income Tax	0.00%
Taxes and Fees in URRT	5.80%
<i>Reinsurance Fee</i>	<i>0.56%</i>
<i>Risk Adjustment User Fees</i>	<i>0.04%</i>
Total Taxes and Fee for MLR calculations	6.40%

As described in the URRT instructions, contributions to the reinsurance program and risk adjustment user fees were not shown in the Taxes and Fees section of URRT Page 1. However, since these taxes are included in MLR calculations, they are shown above separately for clarity.

The total cost of the Exchange User fee is only based on projected Marketplace membership. However, this total cost is reflected in the Market Adjusted Index Rate such that the cost is paid evenly by all members, Marketplace and Non-Marketplace.

11. Projected Loss Ratio

Using the Federally prescribed MLR methodology, the market average Projected Loss Ratio is 89.2% which is compliant with the 80% Federal MLR requirement found in PHSA 2718. Please reference the table below for more information.

	<u>Item</u>	<u>Value</u>
<i>A</i>	Claims Expense	83.0%
<i>B</i>	Quality Expense	1.006
<i>C</i>	Tax & Fees	6.40%
	Anticipated Loss Ratio = (A * B) / (1 - C)	89.2%

12. Single Risk Pool

This filing is compliant with the single risk pool requirements in 45 CFR part 156, § 156.8(d). The experience period contains all of the covered lives for the transitional

products, and the projection period anticipates that members of the transitional products will migrate into the Metallic Plans.

13. Index Rate

Experience Period Index Rate

The Index Rate for the Experience Period is the estimated total allowed claim experience PMPM for Essential Health Benefits for all non-grandfathered Individual Under 65 BlueCross BlueShield of Tennessee plans. It has not been adjusted for payments and charges under the risk adjustment and reinsurance programs or for Exchange User fees.

BCBST was designated the EHB benchmark plan in Tennessee. As a result, standard BCBST benefits covered in the experience period represent Essential Health Benefits. Thus, BCBST's Allowed Claims PMPM is nearly equal to the Index Rate of Experience Period PMPM. Template constraints forced rounding to the nearest dollar when entering Index Rate of Experience Period PMPM.

Projection Period Index Rate

The Projected Index Rate reflects the anticipated allowed claim level for the projection period with respect to trend and benefit differences for all policies expected to be in the single risk pool during the projection period.

The Projected Index rate is adjusted to reflect costs associated with coverage of additional Essential Health Benefits including:

- Pediatric Dental coverage
- Pediatric Vision coverage

Other adjustments are made to reflect changes in the average insured population including the:

- 3:1 age factor limit
- Guaranteed issue requirement
- Change in the prescription drug coverage formulary

- Reflect anticipated morbidity of new entrants

14. Market Adjusted Index Rate

The Market Adjusted Index Rate is the Projected Index Rate adjusted for net Risk Adjustment, net Reinsurance Recoveries and Exchange User Fees, since the cost of these must be spread across the entire risk pool. The table below illustrates this calculation.

Projected Index Rate	\$ 533.27
Exchange User Fee PMPM for all Members	\$ 12.62
Net Reinsurance PMPM	\$ 17.58
Net Risk Adjustment PMPM	\$ 13.09
Market Adjusted Index Rate	\$ 515.22

15. Plan Adjusted Index Rate

To reflect costs associated with a specific plan, the Market Adjusted Index Rate was adjusted to recognize the effects of the actuarial value and cost-sharing design of the specific plan. These adjustments recognize the impact of benefit design on allowed costs by using continuance tables to reflect the value of deductibles and cost sharing maximums as well as by recognizing utilization variation solely driven by relative cost sharing differences. In addition, the Market Adjusted Index Rate was adjusted to recognize cost differences produced by provider network arrangements. Lastly, the Market Adjusted Index Rate was adjusted for administrative costs, taxes and fees (excluding Reinsurance, Risk Adjustment and Exchange User Fees), and contribution to surplus. See Section 19 for additional information on the development of the plan-specific cost adjustment.

16. Calibration

Age Calibration

A calibration factor was necessary in order to calculate Consumer Adjusted Premium Rates using the allowable federal age factors. This calibration factor does not vary by plan. Further information regarding age calibration can be found in Appendix B.

17. Consumer Adjusted Premium Rate Development

The allowable consumer level modifiers that were used in determining Consumer Adjusted Premium Rates were geographic area, the applicable federal age curve and the tobacco status of the consumer.

Example Consumer Adjusted Premium Calculations

** Rates shown are for Area 2, Age 40, and Non-Tobacco User

HIOS ID	Market Adjusted Index Rate	Pricing Value	Age Calibration	Geographic Calibration	Area Factor	Age Factor	Consumer Adjusted Premium Rate
14002TN0330043	515.22	0.6324	0.6361	1.0000	0.9957	1.278	263.75
14002TN0330058	515.22	1.1914	0.6361	1.0000	0.9957	1.278	496.86
14002TN0330012	515.22	0.7098	0.6361	1.0000	0.9957	1.278	269.04
14002TN0330070	515.22	1.3664	0.6361	1.0000	0.9957	1.278	569.87

18. AV Metal Values

AV Metal Values were based on the HHS AV Calculator released 1/16/2015. For non-standard benefits that couldn't be handled by the AV Calculator, an adjustment to the AV Metal Value was made. Refer to Appendix C for AV Metal Values by plan.

19. AV Pricing Values

The AV Pricing Value represents the cumulative effect of adjustments made to move from the Market Adjusted Index Rate to the Plan Adjusted Index Rates. Appendix D shows the calculation of the AV Pricing Value for each plan using the allowable modifiers to the Market Adjusted Index Rate described in 45 CFR Part 156, Section 156.80(d)(2).

These plan adjustments include expected differences in utilization due to differences in cost sharing. These variations in utilization are applied in recognition of observed utilization patterns seen in BCBST claims experience. Based on these observations, a decrease in utilization is experienced as copay and deductible levels increase, even though no change in health status occurs. In recognition of this effect, utilization reductions were applied to the

components of the AV Pricing Values to which the increased deductible or increased copay apply. These adjustments are not based on any assumed change in health status given that these observed correlations between cost sharing changes and utilization are seen in populations that did not have different health status before and after the benefit plan change.

The URRT page 2 requires that pricing values be entered in relation to a fixed reference plan. HIOS ID 14002TN0330117 was chosen as the fixed reference plan, and all pricing values entered on the URRT page 2 are in relation to this plan. Appendix D shows both the true pricing value by plan as well as the pricing value in relation to the reference plan.

20. Membership Projections

The membership projections found in worksheet 2 of the Part 1 URRT are based on a projected membership of Marketplace and Non-Marketplace membership that is 48% higher than that of the single risk pool. This increase is driven primarily by anticipated new membership from the 2016 Open Enrollment period and entrants throughout 2016 from the Special Enrollment Period (SEP) enrollees. The membership change is calculated as the projected 2016 member months divided by the experienced 2014 member months for the entire single risk pool. Total projected enrollment was allocated to the plan level using (1) the current distribution of Marketplace and Non-Marketplace membership by area, network, and metallic level, and (2) an expectation that 90% of the membership in a metal level will be in continued plans and 10% of the membership will be in new plans.

21. Terminated Products

Prior to the effective date of this filing, BCBST will terminate all plans under the Product ID 14002TN011 since this product ID represents non-single risk pool compliant plans and transitional plans. The experience data for the non-single risk pool is displayed in the URRT under Product ID 14002TN011 with a Plan ID of 14002TN0110095.

22. Plan Type

Plan types listed in the drop-down box in Worksheet 2 provide an accurate reflection of the BCBST Individual Under 65 plans.

23. Warning Alerts

Two warning alerts were received on URRT page 2, section III listed below:

- The average Plan Adjusted Index Rate on page 2 is less than the Plan Adjusted Index Rate on page 1
- The Total Premiums on page 2 are less than the Total Premium on page 1.

All of these warning messages are caused by the fact that the values calculated on URRT page 1 are based on the average premium received in the experience period with a different distribution of age than what was assumed in the Plan Adjusted Index Rate that appears on page 2.

24. Effective Rate Review

Because no aspects of the rate basis for the plans associated with this filing were identified as being inadequately addressed in this document, no items beyond the scope of the information required for the URRT have been added in this section.

25. Reliance

In preparing Part 1 of the URRT, the certifying actuary relied on information and assumptions developed and prepared by the internal BCBST Actuarial staff and other internal BCBST departments.

26. Actuarial Certification

In addition to other stated functions, this document is intended to provide Actuarial Certification for the following:

- The Projected Index Rate is:
 - o In compliance with all applicable State and Federal Statutes and Regulations (45 CFR 156.80(d)(1))
 - o Developed in compliance with applicable Actuarial Standards of Practice
 - o Reasonable in relation to the benefits provided and the population anticipated to be covered

- Neither excessive nor deficient
- The Market Adjusted Index Rate and only the allowable plan level modifiers as described in 45 CFR 156.80(d)(1) and 45 CFR 156.80(d)(2) were used to generate Plan Adjusted Index Rates
- The percent of premium that represents Essential Health Benefits included in Worksheet 2, Sections III and IV was calculated in accordance with actuarial standards of practice and is appropriate and a reasonable representation of the associated benefits
- The HHS AV Calculator released 1/16/2015 was used to determine the AV Metal Values shown in Worksheet 2, Part 1 of the Unified Rate Review Template. Adjustments were made for plan design elements that could not be handled by the HHS AV Calculator.
- Rates were developed in accordance with the appropriate Actuarial Standards of Practice and the profession's Code of Professional Conduct.
- Per Tennessee Rule 0780-01-93, the described rates are not unreasonable in relation to the benefits provided.
- The actuarial data and experience shall be maintained by the company (BCBST) and is available for review by the Commissioner of Insurance upon request.
- This certification has been prepared to demonstrate compliance with regulatory authority and is not intended for any other purpose.

I, Jon Jockers, am a member of the American Academy of Actuaries, in good standing, and have the education and experience necessary to perform the work.



Jon Jockers, ASA MAAA
Manager – Actuarial Services
BlueCross BlueShield of TN

APPENDIX A

PAID TO ALLOWED RATIOS BY PLAN

HIOS ID	PAID TO ALLOWED
14002TN0330043	62.1%
14002TN0330044	61.9%
14002TN0330045	62.1%
14002TN0330049	60.9%
14002TN0330046	62.1%
14002TN0330047	61.9%
14002TN0330048	62.1%
14002TN0330050	60.9%
14002TN0330040	62.1%
14002TN0330041	61.9%
14002TN0330042	62.1%
14002TN0330051	60.9%
14002TN0330011	72.3%
14002TN0330012	70.0%
14002TN0330013	70.6%
14002TN0330015	72.1%
14002TN0330016	70.8%
14002TN0330017	71.0%
14002TN0330018	71.1%
14002TN0330019	71.1%
14002TN0330020	71.5%
14002TN0330031	70.8%
14002TN0330021	72.3%
14002TN0330022	70.0%
14002TN0330023	70.6%
14002TN0330025	72.1%
14002TN0330026	70.8%
14002TN0330027	71.0%
14002TN0330028	71.1%
14002TN0330029	71.1%
14002TN0330030	71.5%
14002TN0330032	70.8%
14002TN0330001	72.3%
14002TN0330002	70.0%

HIOS ID	PAID TO ALLOWED
14002TN0330120	61.5%
14002TN0330121	61.5%
14002TN0330076	61.2%
14002TN0330077	61.5%
14002TN0330078	62.1%
14002TN0330079	61.9%
14002TN0330080	62.1%
14002TN0330081	61.2%
14002TN0330082	61.5%
14002TN0330083	60.9%
14002TN0330122	71.4%
14002TN0330123	71.4%
14002TN0330124	70.2%
14002TN0330125	70.2%
14002TN0330126	72.3%
14002TN0330127	72.3%
14002TN0330128	70.6%
14002TN0330129	70.6%
14002TN0330130	70.0%
14002TN0330131	70.0%
14002TN0330084	71.4%
14002TN0330085	70.2%
14002TN0330086	72.3%
14002TN0330087	70.6%
14002TN0330088	70.0%
14002TN0330089	72.3%
14002TN0330090	70.0%
14002TN0330091	70.6%
14002TN0330092	71.4%
14002TN0330093	72.1%
14002TN0330094	70.8%
14002TN0330095	70.2%
14002TN0330096	71.0%
14002TN0330097	71.1%

APPENDIX A

PAID TO ALLOWED RATIOS BY PLAN

HIOS ID	PAID TO ALLOWED
14002TN0330003	70.6%
14002TN0330005	72.1%
14002TN0330006	70.8%
14002TN0330007	71.0%
14002TN0330008	71.1%
14002TN0330009	71.1%
14002TN0330010	71.5%
14002TN0330033	70.8%
14002TN0330057	79.2%
14002TN0330058	80.6%
14002TN0330059	80.3%
14002TN0330060	78.9%
14002TN0330061	79.2%
14002TN0330062	79.2%
14002TN0330063	80.6%
14002TN0330064	80.3%
14002TN0330065	78.9%
14002TN0330066	79.2%
14002TN0330052	79.2%
14002TN0330053	80.6%
14002TN0330054	80.3%
14002TN0330055	78.9%
14002TN0330056	79.2%
14002TN0330070	90.9%
14002TN0330071	90.2%
14002TN0330072	90.9%
14002TN0330073	90.9%
14002TN0330074	90.2%
14002TN0330075	90.9%
14002TN0330067	90.9%
14002TN0330068	90.2%
14002TN0330069	90.9%
14002TN0330118	61.2%
14002TN0330119	61.2%

HIOS ID	PAID TO ALLOWED
14002TN0330098	72.3%
14002TN0330099	71.1%
14002TN0330100	70.6%
14002TN0330101	71.5%
14002TN0330102	70.0%
14002TN0330103	70.8%
14002TN0330132	79.9%
14002TN0330133	79.9%
14002TN0330134	80.9%
14002TN0330135	80.9%
14002TN0330104	79.9%
14002TN0330105	80.9%
14002TN0330106	79.2%
14002TN0330107	79.9%
14002TN0330108	80.6%
14002TN0330109	80.9%
14002TN0330110	80.3%
14002TN0330111	78.9%
14002TN0330112	79.2%
14002TN0330136	89.7%
14002TN0330137	89.7%
14002TN0330113	89.7%
14002TN0330114	90.9%
14002TN0330115	90.2%
14002TN0330116	90.9%
14002TN0330117	89.7%
14002TN0330034	62.1%
14002TN0330035	70.8%
14002TN0330036	71.0%
14002TN0330037	71.1%
14002TN0330038	80.3%
14002TN0330039	79.2%

APPENDIX B

AGE CALIBRATION

Average Age Factor	1.5720
Age Calibration Factor	0.6361

Age Band	Age Factor	Enrollment
0-20	0.635	354,186
21	1	22,163
22	1	22,163
23	1	22,163
24	1	22,163
25	1.004	37,352
26	1.024	37,352
27	1.048	37,352
28	1.087	37,352
29	1.119	37,352
30	1.135	32,640
31	1.159	32,640
32	1.183	32,640
33	1.198	32,640
34	1.214	32,640
35	1.222	29,518
36	1.23	29,518
37	1.238	29,518
38	1.246	29,518
39	1.262	29,518
40	1.278	33,603
41	1.302	33,603
42	1.325	33,603
43	1.357	33,603
44	1.397	33,603
45	1.444	36,896
46	1.5	36,896
47	1.563	36,896
48	1.635	36,896
49	1.706	36,896
50	1.786	44,556

APPENDIX B

AGE CALIBRATION

Average Age Factor	1.5720
Age Calibration Factor	0.6361

Age Band	Age Factor	Enrollment
51	1.865	44,556
52	1.952	44,556
53	2.04	44,556
54	2.135	44,556
55	2.23	49,148
56	2.333	49,148
57	2.437	49,148
58	2.548	49,148
59	2.603	49,148
60	2.714	51,215
61	2.81	51,215
62	2.873	51,215
63	2.952	51,215
64	3	51,215
65	3	3,018

APPENDIX C

ACTUARIAL METAL VALUES

HIOS ID	ACTUARIAL METAL VALUE
14002TN0330043	61.8%
14002TN0330044	61.6%
14002TN0330045	61.8%
14002TN0330049	60.6%
14002TN0330046	61.8%
14002TN0330047	61.6%
14002TN0330048	61.8%
14002TN0330050	60.6%
14002TN0330040	61.8%
14002TN0330041	61.6%
14002TN0330042	61.8%
14002TN0330051	60.6%
14002TN0330011	71.9%
14002TN0330012	69.6%
14002TN0330013	70.2%
14002TN0330015	71.8%
14002TN0330016	70.4%
14002TN0330017	70.6%
14002TN0330018	70.7%
14002TN0330019	70.7%
14002TN0330020	71.2%
14002TN0330031	70.5%
14002TN0330021	71.9%
14002TN0330022	69.6%
14002TN0330023	70.2%
14002TN0330025	71.8%
14002TN0330026	70.4%
14002TN0330027	70.6%
14002TN0330028	70.7%
14002TN0330029	70.7%
14002TN0330030	71.2%
14002TN0330032	70.5%
14002TN0330001	71.9%
14002TN0330002	69.6%

HIOS ID	ACTUARIAL METAL VALUE
14002TN0330120	61.2%
14002TN0330121	61.2%
14002TN0330076	60.9%
14002TN0330077	61.2%
14002TN0330078	61.8%
14002TN0330079	61.6%
14002TN0330080	61.8%
14002TN0330081	60.9%
14002TN0330082	61.2%
14002TN0330083	60.6%
14002TN0330122	71.0%
14002TN0330123	71.0%
14002TN0330124	69.8%
14002TN0330125	69.8%
14002TN0330126	71.9%
14002TN0330127	71.9%
14002TN0330128	70.2%
14002TN0330129	70.2%
14002TN0330130	69.6%
14002TN0330131	69.6%
14002TN0330084	71.0%
14002TN0330085	69.8%
14002TN0330086	71.9%
14002TN0330087	70.2%
14002TN0330088	69.6%
14002TN0330089	71.9%
14002TN0330090	69.6%
14002TN0330091	70.2%
14002TN0330092	71.0%
14002TN0330093	71.8%
14002TN0330094	70.4%
14002TN0330095	69.8%
14002TN0330096	70.6%
14002TN0330097	70.7%

APPENDIX C

ACTUARIAL METAL VALUES

HIOS ID	ACTUARIAL METAL VALUE
14002TN0330003	70.2%
14002TN0330005	71.8%
14002TN0330006	70.4%
14002TN0330007	70.6%
14002TN0330008	70.7%
14002TN0330009	70.7%
14002TN0330010	71.2%
14002TN0330033	70.5%
14002TN0330057	78.8%
14002TN0330058	80.1%
14002TN0330059	79.9%
14002TN0330060	78.5%
14002TN0330061	78.8%
14002TN0330062	78.8%
14002TN0330063	80.1%
14002TN0330064	79.9%
14002TN0330065	78.5%
14002TN0330066	78.8%
14002TN0330052	78.8%
14002TN0330053	80.1%
14002TN0330054	79.9%
14002TN0330055	78.5%
14002TN0330056	78.8%
14002TN0330070	90.4%
14002TN0330071	89.7%
14002TN0330072	90.4%
14002TN0330073	90.4%
14002TN0330074	89.7%
14002TN0330075	90.4%
14002TN0330067	90.4%
14002TN0330068	89.7%
14002TN0330069	90.4%
14002TN0330118	60.9%
14002TN0330119	60.9%

HIOS ID	ACTUARIAL METAL VALUE
14002TN0330098	71.9%
14002TN0330099	70.7%
14002TN0330100	70.2%
14002TN0330101	71.2%
14002TN0330102	69.6%
14002TN0330103	70.5%
14002TN0330132	79.4%
14002TN0330133	79.4%
14002TN0330134	80.5%
14002TN0330135	80.5%
14002TN0330104	79.4%
14002TN0330105	80.5%
14002TN0330106	78.8%
14002TN0330107	79.4%
14002TN0330108	80.1%
14002TN0330109	80.5%
14002TN0330110	79.9%
14002TN0330111	78.5%
14002TN0330112	78.8%
14002TN0330136	89.2%
14002TN0330137	89.2%
14002TN0330113	89.2%
14002TN0330114	90.4%
14002TN0330115	89.7%
14002TN0330116	90.4%
14002TN0330117	89.2%
14002TN0330034	61.8%
14002TN0330035	70.4%
14002TN0330036	70.6%
14002TN0330037	70.7%
14002TN0330038	79.9%
14002TN0330039	78.8%

APPENDIX D
ACTUARIAL PRICING VALUES

HIOS ID	ACTUARIAL PRICING VALUE	AV & COST SHARING	NETWORK ADJ.	RETENTION	BENEFITS IN ADDITION TO EHB	VALUE TO REFERENCE PLAN
14002TN0330043	0.632	0.613	0.900	0.128	1.000	0.321
14002TN0330044	0.548	0.531	0.900	0.128	1.000	0.278
14002TN0330045	0.617	0.597	0.900	0.128	1.000	0.313
14002TN0330049	0.496	0.480	0.900	0.128	1.000	0.252
14002TN0330046	0.597	0.613	0.850	0.128	1.000	0.303
14002TN0330047	0.517	0.531	0.850	0.128	1.000	0.263
14002TN0330048	0.582	0.597	0.850	0.128	1.000	0.296
14002TN0330050	0.468	0.480	0.850	0.128	1.000	0.238
14002TN0330040	0.703	0.613	1.000	0.128	1.000	0.357
14002TN0330041	0.609	0.531	1.000	0.128	1.000	0.309
14002TN0330042	0.685	0.597	1.000	0.128	1.000	0.348
14002TN0330051	0.551	0.480	1.000	0.128	1.000	0.280
14002TN0330011	0.810	0.791	0.900	0.121	1.000	0.411
14002TN0330012	0.710	0.693	0.900	0.121	1.000	0.360
14002TN0330013	0.690	0.674	0.900	0.121	1.000	0.350
14002TN0330015	0.780	0.761	0.900	0.121	1.000	0.396
14002TN0330016	0.718	0.701	0.900	0.121	1.000	0.364
14002TN0330017	0.815	0.795	0.900	0.121	1.000	0.414
14002TN0330018	0.817	0.798	0.900	0.121	1.000	0.415
14002TN0330019	0.851	0.831	0.900	0.121	1.000	0.432
14002TN0330020	0.759	0.741	0.900	0.121	1.000	0.385
14002TN0330031	0.720	0.703	0.900	0.121	1.000	0.366
14002TN0330021	0.765	0.791	0.850	0.121	1.000	0.388
14002TN0330022	0.670	0.693	0.850	0.121	1.000	0.340
14002TN0330023	0.652	0.674	0.850	0.121	1.000	0.331
14002TN0330025	0.736	0.761	0.850	0.121	1.000	0.374
14002TN0330026	0.678	0.701	0.850	0.121	1.000	0.344
14002TN0330027	0.770	0.795	0.850	0.121	1.000	0.391
14002TN0330028	0.772	0.798	0.850	0.121	1.000	0.392
14002TN0330029	0.804	0.831	0.850	0.121	1.000	0.408
14002TN0330030	0.717	0.741	0.850	0.121	1.000	0.364
14002TN0330032	0.680	0.703	0.850	0.121	1.000	0.345
14002TN0330001	0.900	0.791	1.000	0.121	1.000	0.457
14002TN0330002	0.789	0.693	1.000	0.121	1.000	0.400
14002TN0330003	0.767	0.674	1.000	0.121	1.000	0.389
14002TN0330005	0.866	0.761	1.000	0.121	1.000	0.440
14002TN0330006	0.798	0.701	1.000	0.121	1.000	0.405
14002TN0330007	0.905	0.795	1.000	0.121	1.000	0.459
14002TN0330008	0.908	0.798	1.000	0.121	1.000	0.461
14002TN0330009	0.946	0.831	1.000	0.121	1.000	0.480
14002TN0330010	0.843	0.741	1.000	0.121	1.000	0.428
14002TN0330033	0.801	0.703	1.000	0.121	1.000	0.406
14002TN0330057	1.077	1.060	0.900	0.114	1.000	0.547
14002TN0330058	1.191	1.172	0.900	0.114	1.000	0.605
14002TN0330059	1.064	1.047	0.900	0.114	1.000	0.540

APPENDIX D
ACTUARIAL PRICING VALUES

HIOS ID	ACTUARIAL PRICING VALUE	AV & COST SHARING	NETWORK ADJ.	RETENTION	BENEFITS IN ADDITION TO EHB	VALUE TO REFERENCE PLAN
14002TN0330060	0.998	0.982	0.900	0.114	1.000	0.506
14002TN0330061	1.166	1.147	0.900	0.114	1.000	0.592
14002TN0330062	1.017	1.060	0.850	0.114	1.000	0.516
14002TN0330063	1.125	1.172	0.850	0.114	1.000	0.571
14002TN0330064	1.005	1.047	0.850	0.114	1.000	0.510
14002TN0330065	0.942	0.982	0.850	0.114	1.000	0.478
14002TN0330066	1.101	1.147	0.850	0.114	1.000	0.559
14002TN0330052	1.197	1.060	1.000	0.114	1.000	0.607
14002TN0330053	1.324	1.172	1.000	0.114	1.000	0.672
14002TN0330054	1.182	1.047	1.000	0.114	1.000	0.600
14002TN0330055	1.109	0.982	1.000	0.114	1.000	0.563
14002TN0330056	1.295	1.147	1.000	0.114	1.000	0.657
14002TN0330070	1.366	1.350	0.900	0.111	1.000	0.694
14002TN0330071	1.440	1.422	0.900	0.111	1.000	0.731
14002TN0330072	1.494	1.476	0.900	0.111	1.000	0.758
14002TN0330073	1.291	1.350	0.850	0.111	1.000	0.655
14002TN0330074	1.360	1.422	0.850	0.111	1.000	0.690
14002TN0330075	1.411	1.476	0.850	0.111	1.000	0.716
14002TN0330067	1.518	1.350	1.000	0.111	1.000	0.771
14002TN0330068	1.600	1.422	1.000	0.111	1.000	0.812
14002TN0330069	1.660	1.476	1.000	0.111	1.000	0.843
14002TN0330118	0.568	0.550	0.900	0.128	1.000	0.288
14002TN0330119	0.536	0.550	0.850	0.128	1.000	0.272
14002TN0330120	0.613	0.594	0.900	0.128	1.000	0.311
14002TN0330121	0.579	0.594	0.850	0.128	1.000	0.294
14002TN0330076	0.631	0.550	1.000	0.128	1.000	0.320
14002TN0330077	0.681	0.594	1.000	0.128	1.000	0.346
14002TN0330078	0.786	0.613	1.119	0.128	1.000	0.399
14002TN0330079	0.681	0.531	1.119	0.128	1.000	0.346
14002TN0330080	0.767	0.597	1.119	0.128	1.000	0.389
14002TN0330081	0.706	0.550	1.119	0.128	1.000	0.358
14002TN0330082	0.762	0.594	1.119	0.128	1.000	0.387
14002TN0330083	0.616	0.480	1.119	0.128	1.000	0.313
14002TN0330122	0.822	0.803	0.900	0.121	1.000	0.417
14002TN0330123	0.777	0.803	0.850	0.121	1.000	0.394
14002TN0330124	0.754	0.736	0.900	0.121	1.000	0.383
14002TN0330125	0.712	0.736	0.850	0.121	1.000	0.362
14002TN0330126	0.824	0.804	0.900	0.121	1.000	0.418
14002TN0330127	0.778	0.804	0.850	0.121	1.000	0.395
14002TN0330128	0.874	0.854	0.900	0.121	1.000	0.444
14002TN0330129	0.826	0.854	0.850	0.121	1.000	0.419
14002TN0330130	0.884	0.863	0.900	0.121	1.000	0.449
14002TN0330131	0.835	0.863	0.850	0.121	1.000	0.424
14002TN0330084	0.914	0.803	1.000	0.121	1.000	0.464
14002TN0330085	0.838	0.736	1.000	0.121	1.000	0.425

APPENDIX D
ACTUARIAL PRICING VALUES

HIOS ID	ACTUARIAL PRICING VALUE	AV & COST SHARING	NETWORK ADJ.	RETENTION	BENEFITS IN ADDITION TO EHB	VALUE TO REFERENCE PLAN
14002TN0330086	0.915	0.804	1.000	0.121	1.000	0.464
14002TN0330087	0.972	0.854	1.000	0.121	1.000	0.493
14002TN0330088	0.982	0.863	1.000	0.121	1.000	0.498
14002TN0330089	1.007	0.791	1.119	0.121	1.000	0.511
14002TN0330090	0.883	0.693	1.119	0.121	1.000	0.448
14002TN0330091	0.858	0.674	1.119	0.121	1.000	0.435
14002TN0330092	1.022	0.803	1.119	0.121	1.000	0.519
14002TN0330093	0.969	0.761	1.119	0.121	1.000	0.492
14002TN0330094	0.893	0.701	1.119	0.121	1.000	0.453
14002TN0330095	0.938	0.736	1.119	0.121	1.000	0.476
14002TN0330096	1.013	0.795	1.119	0.121	1.000	0.514
14002TN0330097	1.016	0.798	1.119	0.121	1.000	0.516
14002TN0330098	1.024	0.804	1.119	0.121	1.000	0.520
14002TN0330099	1.058	0.831	1.119	0.121	1.000	0.537
14002TN0330100	1.087	0.854	1.119	0.121	1.000	0.552
14002TN0330101	0.944	0.741	1.119	0.121	1.000	0.479
14002TN0330102	1.099	0.863	1.119	0.121	1.000	0.558
14002TN0330103	0.896	0.703	1.119	0.121	1.000	0.455
14002TN0330132	1.125	1.107	0.900	0.114	1.000	0.571
14002TN0330133	1.062	1.107	0.850	0.114	1.000	0.539
14002TN0330134	1.220	1.200	0.900	0.114	1.000	0.619
14002TN0330135	1.152	1.200	0.850	0.114	1.000	0.585
14002TN0330104	1.250	1.107	1.000	0.114	1.000	0.634
14002TN0330105	1.355	1.200	1.000	0.114	1.000	0.688
14002TN0330106	1.339	1.060	1.119	0.114	1.000	0.680
14002TN0330107	1.399	1.107	1.119	0.114	1.000	0.710
14002TN0330108	1.481	1.172	1.119	0.114	1.000	0.752
14002TN0330109	1.517	1.200	1.119	0.114	1.000	0.770
14002TN0330110	1.323	1.047	1.119	0.114	1.000	0.671
14002TN0330111	1.240	0.982	1.119	0.114	1.000	0.630
14002TN0330112	1.449	1.147	1.119	0.114	1.000	0.736
14002TN0330136	1.585	1.565	0.900	0.111	1.000	0.804
14002TN0330137	1.497	1.565	0.850	0.111	1.000	0.760
14002TN0330113	1.761	1.565	1.000	0.111	1.000	0.894
14002TN0330114	1.699	1.350	1.119	0.111	1.000	0.862
14002TN0330115	1.790	1.422	1.119	0.111	1.000	0.909
14002TN0330116	1.858	1.476	1.119	0.111	1.000	0.943
14002TN0330117	1.970	1.565	1.119	0.111	1.000	1.000
14002TN0330034	0.767	0.597	1.119	0.128	1.000	0.389
14002TN0330035	0.893	0.701	1.119	0.121	1.000	0.453
14002TN0330036	1.013	0.795	1.119	0.121	1.000	0.514
14002TN0330037	1.016	0.798	1.119	0.121	1.000	0.516
14002TN0330038	1.323	1.047	1.119	0.114	1.000	0.671
14002TN0330039	1.449	1.147	1.119	0.114	1.000	0.736