Actuarial Work-Products, Inc.

8025 North Point Blvd, Suite 207W Winston-Salem, NC 27106 Tel. (336) 759-2035 Fax. (336) 896-0392 e-mail: harker2@earthlink.net

Carlton Harker, FSA, MAAA Principal www.self-fundhealth.com www.actuarialworkproducts.com www.ifebp.org/Iharker www.awpse.com

TO: Addressee No. 1

Administrators, Inc. 414 Main Street Portland, OR 97114 Tel. 601-414-8888 Fax 601-516-1414

Addressee No. 2

Self-Funding Actuarial Service 8025 North Point Blvd Ste 207W Winston-Salem, NC 27106 Tel. 336-759-2035 Fax 336-896-0392 Addressee No. 3
ABC Manufacturing Co.
1841 Bypass Road
Tupelo, MS 37116
Tel. 614-160-1425

Fax 614-280-8416

RE: Health Care Plan: ABC Medical Plan

Benefits Include: Medical, Rx, Dental

Engager is Addressee No. 1

Eligible User is Addressee No. 2

This Certification provides an actuarial opinion with respect to the subject plan which consists of the following parts:

Part 1 - Claims Fluctuations - Without Specific

Part 2 - Claims Fluctuations - With Specific

Part 3 - Economic Value of Stop-loss - Specific Only

Part 4 - Economic Value of Stop-loss - Aggregate Only

Part 5 - Economic Value of Stop-loss - Variable Aggregate

This certification consists of three sections:

- Statement of Actuarial Opinion
- Submitted Data and Computation Parameters
- Comments of the Actuary.

Sincerely,

Carlton Harker, FSA, MAAA Actuarial Work-Products, Inc.

Actuarial Work-Products
Monte Carlo I Simulations
Claims Fluctuations and Economic
Value Stop-loss

STATEMENT OF ACTUARIAL OPINION

OF THE PLAN BENEFIT CALCULATION FOR THE HEALTH CARE PLAN OF THE PLAN SPONSOR

I, Carlton Harker, am a principal of Actuarial Work-Products, Inc., am a Fellow of the Society of Actuaries and am a member of the American Academy of Actuaries. My firm has been retained by the Engager to provide calculations of certain actuarial items for the above-cited Health Care Plan.

I relied upon such Eligible User of the subject Health Care Plan as to the accuracy and completeness of underlying information used in the computation of such items.

In other aspects, my examination included such review of the actuarial assumptions and methods and such tests of actuarial calculations as I considered necessary under the circumstances.

Part 1 Opinion - Claims Fluctuations - Without Specific

Based upon the data and documentation set forth in this Work-Product, the projected plan sponsor-paid claims, including claims above the specific stop-loss limit for the indicated twelve month plan period and the statistical variance associated therewith are as follows:

• Projected claims \$4,447,402

Statistical variance	Degree of Confidence	Confidence L Low	<u>imits</u> <u>High</u>
	60%	\$3,782,736	\$5,112,069
	75%		\$5,357,362
	90%	\$3,141,808	\$5,752,997

Part 2 Opinion - Claims Fluctuations - With Specific

Based upon the data and documentation set forth in this Work-Product, the projected plan sponsor-paid claims, including claims above the specific stop-loss limit for the indicated twelve month plan period and the statistical variance associated therewith are as follows:

Projected claims \$3,576,268

• Statistical variance	Degree of Confidence	Confidence Limits Low High	
	60% 75%	\$3,205,606 \$3,946,9	
rk-Products	90%	\$3,068,814 \$4,083,73 \$2,848,182 \$4,304,33	
I Simulations			

Actuarial Work-Products

Monte Carlo I Simulations

Claims Fluctuations and Economic

Value Stop-loss

Part 3 Opinion - Economic Value of Stop-loss - Specific-Only

Based upon the data and documentation set forth in this Work-Product, the economic value of the specific-only stop-loss when applied to the projected plan sponsor-paid claims, including claims above such specific stop-loss for the indicated twelve month plan period is as follows:

• Specific stop-loss limit	\$50,000
• Expected subject paid claims without specific-only stop-loss	\$4,447,402
• Expected subject paid claims with specific-only stop-loss	\$3,576,268
• Difference is the economic value of such specific-only stop-loss	\$871,134
Estimated specific-only stop-loss gross premium	\$390,000

Part 4 Opinion - Economic Value of Stop-loss - Aggregate-Only

Based upon the data and documentation set forth in this Work-Product, the economic value of the aggregate stop-loss when applied to the projected plan sponsor-paid claims, excluding claims above such specific stop-loss for the indicated twelve month plan period is as follows:

Aggregate stop-loss limit	\$5,000,000
• Expected subject paid claims with specific stop-loss	\$3,576,268
• Expected subject paid claims with specific and aggregate stop-loss	\$3,576,268
• Difference is the economic value of such aggregate stop-loss	\$0
Estimated aggregate-only stop-loss gross premium	\$6,000

Part 5 Opinion - Economic Value of Stop-loss - Variable Aggregate

Based upon the data and documentation set forth in this Work-Product, the economic value of the aggregate-only stop-loss when applied to the projected plan sponsor-paid claims, excluding claims above the specific stop-loss (if any), for various corridor levels, are as follows:

Aggregate	e <u>Limit</u>	Without Aggregate	With Aggregate	Economic Value	Monthly Cost for Covered
<u>Percent</u>	Amount	Stop-loss	Stop-loss	Difference	Person
90%	\$3,218,641	\$3,576,268	\$3,212,764	\$363,504	\$33
95	\$3,397,455	\$3,576,268	\$3,359,480	\$216,787	\$20
100	\$3,576,268	\$3,576,268	\$3,470,883	\$105,385	\$9
105	\$3,755,081	\$3,576,268	\$3,538,735	\$37,532	\$3
110	\$3,933,895	\$3,576,268	\$3,567,646	\$8,621	\$0
115	\$4,112,708	\$3,576,268	\$3,575,923	\$345	\$0
120	\$4,291,522	\$3,576,268	\$3,576,268	\$0	\$0
125	\$4,470,335	\$3,576,268	\$3,576,268	\$0	\$0 \$0
130	\$4,649,148	\$3,576,268	\$3,576,268	\$0	\$0 \$0

Conditions and Terms of Opinion

1. That this Work-Product is an actuarial opinion as contemplated by the American Academy of Actuaries.

- 2. That he is qualified to offer such opinion by reason of his meeting the requisite examination, experience and continuing education requirements of the American Academy of Actuaries.
- 3. That this Actuarial Work-Product is the result of a mathematical computer program processing inputed data and documentation as summarized herein.
- 4. That he is independent of and has no conflicted interest with any party with respects to this Work-Product.
- 5. That the Work-Product was prepared at the request of the Eligible User, who is identified herein, and who may or may not be the ultimate user of such Work-Product.
- 6. That he has been engaged, as contemplated by the relevant American Academy of Actuaries, by the Engager identified herein.
- 7. No specific audit/review of the accuracy of the submitted data was made.
- 8. The actuary intends to be a fiduciary with repect to this Work-Product and will act accordingly, striving to meet any and all standards of conduct necessary to meet this end.
- 9. The professional liability for this Work-Product is assumed by Self-Funding Actuarial Services, Inc. which has in place an appropriate professional liability insurance policy. A PDF of the summary page of this policy is available at: www.awpse.com/eando.pdf.

09/11/2009	
Date	Carlton Harker, FSA, MAAA
	Actuarial Work Products, Inc.
	AAA Number 5293

SUBMITTED DATA AND COMPUTATION PARAMETERS

Addressee No. 1

Administrators, Inc. 414 Main Street Portland, OR 97114 Tel. 601-414-8888 Fax 601-516-1414 ID T0001

Contact John Smith Email jsmith@admin.com

Addressee No. 2

Self-Funding Actuarial Service 8025 North Point Blvd Ste 207W Winston-Salem, NC 27106 Tel. 336-759-2035 Fax 336-896-0392 ID E0001

Contact Carlton Harker Email harker2@earthlink.net Addressee No. 3

ABC Manufacturing Co. 1841 Bypass Road Tupelo, MS 37116 Tel. 614-160-1425 Fax 614-280-8416

ID P0006

No. 001

Contact Bill Owner Email bowner@abcco.com

Requested Work-Products

1. Claims Fluctuations - Without Specific

2. Claims Fluctuations - With Specific

3. Economic Value of Stop-loss - Specific Only

4. Economic Value of Stop-loss - Aggregate Only

5. Economic Value of Stop-loss - Variable Aggregate

General Information

Plan Name: ABC Medical Plan

Plan Year: 01/01/2010 to 12/31/2010

Engager: None specified

Eligible User: Self-Funding Actuarial Service

Plan Sponsor: ABC Manufacturing Co.

Plan Parameters

Census	Individual	100	P/Children	0
	P/Child	100	P/Children	0
	P/Spouse	100	Family	100
	P/One	0	Total	400
	P/Two	0		

Benefits Included in Analyses (Aggregate Purposes Only)

Projected Claims	M yes	Rx yes	D yes	Y no	STD no
Aggregate Stop-loss	M yes	Rx yes	D yes	Y no	STD no

Annual Estimated/Projected Paid Benefits as Defined by the Plan

	Claims Above Specific		
<u>Payer</u>	Excluded	<u>Included</u>	
Plan Sponsor Plan Participant	\$4,013,000 \$0	\$4,433,000 \$0	
Total	\$4,013,000	\$4,433,000	

Stop-Loss Terms

Specific	Amount	\$50,000
	Annualized Premiums	\$390,000
	Terms:	Paid
Aggregate	Amount	\$5,000,000
	Annualized Premiums	\$6,000
	Terms:	Paid

Calculation Parameters

Number of Trials	100
Log normal Dispersal Index	4.3
Percent of Covered Persons Filing At least One Claim	83%
Economic Value of Stop-loss - Variable Aggregate (Part 5)	Requested

Notes

- 1. Individual includes child-only and surviving spouse.
- 2. Stop-loss paid includes 15/12, 12/15, e.g..
- 3. The ELIGIBLE USER is the party responsible for data input and report preparation.
- 4. The ENGAGER is the party responsible for the bill.
- 5. The PLAN SPONSOR is self-explanatory.
- 6. Aggregate, as a stand-alone benefit, is not contemplated.

COMMENTS OF THE ACTUARY

- 1. Elaborative explanatory comments may be found in this appropriate Sub-Site under these headings:
 - Description of Work-Products
 - Discussion of Manner of Production
 - Fees and Terms
 - Background Reading
- 2. This Work-Product is the property of the Engager who has the fee responsibility and is the party engaging the Actuary. Such Engager must be approved for such Work-Product module and retains such user rights solely at the pleasure/discretion of Actuarial Work-Products, Inc.

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Plan Name: ABC Medical Plan Valuation Date: 12/31/2009 Produced by: Actuarial-Work Products, Inc.

ADDRESSEE 1 ID: T0001 ADDRESSEE 2 ID: E0001 ADDRESSEE 3 ID: P0006

PLAN ID: 001

VAL NUMBER: 01

COMPUTATION DATE: 12/31/2009

PROJECTED RANGE: 01/01/2010 TO 12/31/2010

Actuarial Work-Products Monte Carlo I Simulations Claims Fluctuations and Economic Value Stop-loss