

State: Arkansas **Filing Company:** Central United Life Insurance Company
TOI/Sub-TOI: L08 Life - Other/L08.000 Life - Other
Product Name: CUL Annual Illustration Certification
Project Name/Number: /

Filing at a Glance

Company: Central United Life Insurance Company
Product Name: CUL Annual Illustration Certification
State: Arkansas
TOI: L08 Life - Other
Sub-TOI: L08.000 Life - Other
Filing Type: Form
Date Submitted: 01/23/2013
SERFF Tr Num: CEUL-128863128
SERFF Status: Closed-Accepted For Informational Purposes
State Tr Num:
State Status: Closed-Accepted for Informational Purposes
Co Tr Num:

Implementation: On Approval
Date Requested:
Author(s): Genetha Roberson
Reviewer(s): Linda Bird (primary)
Disposition Date: 01/28/2013
Disposition Status: Accepted For Informational Purposes
Implementation Date:

State Filing Description:

State: Arkansas
TOI/Sub-TOI: L08 Life - Other/L08.000 Life - Other
Product Name: CUL Annual Illustration Certification
Project Name/Number: /

Filing Company: Central United Life Insurance Company

General Information

Project Name: Status of Filing in Domicile:
Project Number: Date Approved in Domicile:
Requested Filing Mode: Domicile Status Comments:
Explanation for Combination/Other: Market Type:
Submission Type: New Submission Overall Rate Impact:
Filing Status Changed: 01/28/2013
State Status Changed: 01/28/2013 Deemer Date:
Created By: Genetha Roberson Submitted By: Genetha Roberson
Corresponding Filing Tracking Number:

Filing Description:
Annual Illustration Certification

Company and Contact

Filing Contact Information

Genetha Roberson, Compliance Analyst GRoberso@manhattanlife.com
10777 NW Freeway 713-821-6435 [Phone]
Houston, TX 77092 713-821-6551 [FAX]

Filing Company Information

Central United Life Insurance CoCode: 61883 State of Domicile: Arkansas
Company Group Code: 1117 Company Type:
Wortham Tower Group Name: State ID Number:
10777 Northwest Freeway FEIN Number: 42-0884060
Houston, TX 77092
(713) 529-0045 ext. [Phone]

Filing Fees

Fee Required? No
Retaliatory? No
Fee Explanation:

SERFF Tracking #:

CEUL-128863128

State Tracking #:

Company Tracking #:

State:

Arkansas

Filing Company:

Central United Life Insurance Company

TOI/Sub-TOI:

L08 Life - Other/L08.000 Life - Other

Product Name:

CUL Annual Illustration Certification

Project Name/Number:

/

Correspondence Summary

Dispositions

Status	Created By	Created On	Date Submitted
Accepted For Informational Purposes	Linda Bird	01/28/2013	01/28/2013

SERFF Tracking #:

CEUL-128863128

State Tracking #:

Company Tracking #:

State:

Arkansas

Filing Company:

Central United Life Insurance Company

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CUL Annual Illustration Certification

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/

Disposition

Disposition Date: 01/28/2013

Implementation Date:

Status: Accepted For Informational Purposes

Comment:

Rate data does NOT apply to filing.

Schedule	Schedule Item	Schedule Item Status	Public Access
Supporting Document	Flesch Certification		No
Supporting Document	Application		No
Supporting Document	Actuary Appointment		No
Supporting Document	Cover Letter		Yes
Form	Illustration Certification		Yes

SERFF Tracking #:

CEUL-128863128

State Tracking #:

Company Tracking #:

State:

Arkansas

Filing Company:

Central United Life Insurance Company

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Form Schedule

Lead Form Number:

Item No.	Schedule Item Status	Form Name	Form Number	Form Type	Form Action	Action Specific Data	Readability Score	Attachments
1		Illustration Certification	Annual Illustration Certification	CER	Initial			CUL 2013 III Act Report.pdf

Form Type Legend:

ADV	Advertising	AEF	Application/Enrollment Form
CER	Certificate	CERA	Certificate Amendment, Insert Page, Endorsement or Rider
DDP	Data/Declaration Pages	FND	Funding Agreement (Annuity, Individual and Group)
MTX	Matrix	NOC	Notice of Coverage
OTH	Other	OUT	Outline of Coverage
PJK	Policy Jacket	POL	Policy/Contract/Fraternal Certificate
POLA	Policy/Contract/Fraternal Certificate: Amendment, Insert Page, Endorsement or Rider	SCH	Schedule Pages

**ILLUSTRATION ACTUARY
CALENDAR YEAR 2013
CERTIFICATION DOCUMENTATION**

**CENTRAL UNITED
LIFE INSURANCE COMPANY**



**Michael A. Mayberry, F.S.A., M.A.A.A.
Robert E. Gove, A.S.A, M.A.A.A.**

I. Introduction

I, Michael A. Mayberry, FSA, MAAA, am a member of the American Academy of Actuaries and an employee of the firm of Lewis & Ellis, Inc., Actuaries & Consultants (“L&E”). I have been appointed as the illustration actuary by the board of directors of Central United Life Insurance Company (“the Company”). I am familiar with the Life Insurance Illustrations Model Regulation (“Model Regulation”) and Actuarial Standard of Practice No. 24 Compliance with the NAIC Life Insurance Illustrations Model Regulation (“ASOP 24”) adopted by the Actuarial Standards Board February, 2007.

II. Purpose

This documentation has been prepared to support my certification that the scales used in illustrating non-guaranteed elements for universal life products for the Company are in compliance with the requirements as set forth in the Model Regulation.

III. Products Subject to Certification

The Model Regulation applies to all policy forms being actively marketed on the effective date of the regulation for which an illustration will be used, with certain exceptions.

For policies in force one year or more, the requirements of certification are met because the following is true: the currently payable scale has not been changed since the last certification and the illustration actuary determines that experience since the last certification does not warrant changes in the disciplined current scale (DCS) that would make it significantly less favorable to the policy owner, as allowed per ASOP 24. This is applicable to the following policy forms:

Form Number	Product Name	Description
PDUL99	Payroll Deduction Universal Life	Flexible Premium Universal Life

For policies in force less than one year, requirements of Self-Support and Lapse-Support apply. Policy forms that have no guaranteed or non-guaranteed nonforfeiture values at any duration are exempt from the Lapse-Support requirement. The Company’s policy forms which are subject to these requirements are listed below:

Form Number	Product Name	Description	Self-Support	Lapse-Support
PDUL08	Payroll Deduction Universal Life	Flexible Premium Universal Life	Applicable	Applicable

IV. Disciplined Current Scales (DCS)

The Payroll Deduction Universal Life product contains the following four non-guaranteed elements:

- Interest credits
- Cost of insurance charges
- Premium loading factors
- Monthly expense charges.

A. Interest Credits

The DCS for interest credits is 3.50%.

B. Cost of Insurance Charges

The DCS for cost of insurance (COI) charges is equal to the current COI scale. These can be found in Appendix I.

C. Premium Loading Factors

The DCS for premium loading factors is 4.00%.

D. Monthly Expense Charges

The DCS for monthly expense charges is \$4 per month for all policy years.

V. Assumptions Underlying the Disciplined Current Scales

A. Mortality

Mortality rates are based on 80% 2001 VBT S&U ANB Nonsmoker and 95% 2001 VBT S&U ANB Smoker tables. Both tables are blended 80%/20% Male/Female.

B. Persistency

The lapse assumption is as follows:

Duration:	1	2	3	4	5	6	7	8+
IA<30	15.0%	10.0%	7.5%	6.0%	5.5%	5.0%	4.5%	4.0%
IA 30-39	12.0%	9.0%	7.5%	6.0%	5.5%	5.0%	4.5%	4.0%
IA 40+	10.0%	8.0%	7.0%	6.0%	5.5%	5.0%	4.5%	4.0%

For the lapse-support projections, the assumed lapse rate is 0.0% for durations 6 and later.

Central United Life Insurance Company

C. Premium Distribution

We have assumed that all premium payments are made on a monthly basis.

D. Distribution of New Business

The assumed distribution of new business by face amount, risk class, and issue age is based on the Company's expectation of sales. The following distribution assumptions were used:

Average Size - \$31,000

Risk Class - Nonsmoker 85%
Smoker 15%

Issue Age -	25	35	45	55	65	75
	5%	35%	35%	22%	2%	1%

E. Expenses

Expense assumptions are based on the 2013 Generally Recognized Expense Table (GRET). The values used are those associated with the "PPGA" category, and are as follows:

Acquisition Per Policy - \$101.00

Acquisition Per Unit - \$1.80

Acquisition Per Premium - 56%

Maintenance Per Policy - \$51.00

Premium tax was assumed at the rate of 2.5%

F. Commissions

Commission assumptions are based on the actual commission schedules.

Duration:	
1	90%
2-5	7%
6-10	5%
11+	2%

G. Taxes

The effect of federal income taxes is recognized in accordance with their impact by duration, as required by ASOP 24. An FIT rate of 35% is assumed.

DAC tax is capitalized at 7.7% and amortized over ten years.

H. Interest Rate

The assumed earned rate of interest for all projections is 4.5%.

VI. Demonstration

Per the Model Regulation, the requirement of Self-Support is deemed to be met if “when using experience assumptions underlying the disciplined current scale, for all illustrated points in time on or after the fifteenth policy anniversary or the twentieth policy anniversary for second-or-later-to-die policies (or upon policy expiration if sooner), the accumulated value of all policy cash flows equals or exceeds the total policy owner value available.”

The requirement of Lapse-Support is deemed to be met under the same method as that for the requirement of Self-Support “under a modified persistency rate assumption using persistency rates underlying the disciplined current scale for the first five years and 100 percent policy persistency thereafter,” per the Model Regulation.

The Payroll Deduction Universal Life product meets the requirements of Self-Support and Lapse-Support. As allowed per ASOP 24, testing has been done for underwriting classifications and policy owner choice factors in aggregate. Testing results for \$100,000,000 of initial sales can be seen in Appendix II (Lapse-Support Test) and Appendix III (Self-Support Test).

VII. Reliance

I have relied on information provided by the Company in preparing my certification.

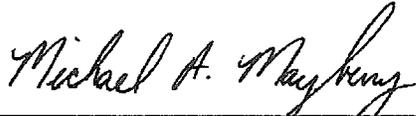
The accuracy and completeness of the data supplied by others are the responsibility of those who supply the data. However, any data provided has been reviewed for reasonableness and consistency to the extent practicable.

VIII. Limitations and Caveats

This actuarial report has been prepared for Central United Life Insurance Company. This report has been prepared with the intention that it be reviewed and understood as a complete document. Its purpose is to provide documentation as to the compliance of the policy form scales for the products that are the subject of this actuarial report with the requirements of the Model Regulation. No other use is intended or implied. This report does not consider or address new or inforce business issued by the Company on other policy forms. This report does not address the overall adequacy of the Company’s statutory reserves or the ability of the Company’s investments and related asset management strategies to mature its policyholder obligations.

I am available for explanation of any questions that may arise from the material presented herein.

LEWIS & ELLIS, INC.



Michael A. Mayberry, FSA, MAAA
Vice President & Principal

2929 North Central Expressway, Suite 200
Richardson, TX 75080
Telephone Number: (972) 850-0850
E-Mail: GTobleman@LewisEllis.com

January 17, 2013

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APPENDIX I

Central United Life Insurance Company

PDUL08 Annual COI Rates

Guaranteed			Current		
Attained			Attained		
Age	Nonsmoker	Smoker	Age	Nonsmoker	Smoker
20	1.11	1.47	20	1.11	1.47
21	1.11	1.55	21	1.11	1.55
22	1.12	1.63	22	1.12	1.63
23	1.12	1.69	23	1.12	1.69
24	1.14	1.79	24	1.14	1.79
25	1.14	1.90	25	1.14	1.90
26	1.20	1.99	26	1.20	1.99
27	1.26	2.11	27	1.26	2.11
28	1.25	2.13	28	1.25	2.13
29	1.24	2.15	29	1.24	2.15
30	1.22	2.15	30	1.22	2.15
31	1.22	2.17	31	1.22	2.17
32	1.24	2.20	32	1.24	2.20
33	1.27	2.28	33	1.27	2.28
34	1.31	2.38	34	1.31	2.38
35	1.37	2.48	35	1.37	2.48
36	1.44	2.63	36	1.44	2.63
37	1.52	2.78	37	1.52	2.78
38	1.63	3.00	38	1.63	3.00
39	1.72	3.21	39	1.72	3.21
40	1.83	3.44	40	1.83	3.44
41	1.98	3.75	41	1.98	3.75
42	2.15	4.11	42	2.15	4.11
43	2.35	4.53	43	2.35	4.53
44	2.59	5.04	44	2.59	5.04
45	2.87	5.58	45	2.87	5.58
46	3.14	6.10	46	3.14	6.10
47	3.46	6.69	47	3.46	6.69
48	3.65	7.09	48	3.65	7.09
49	3.88	7.54	49	3.88	7.54
50	4.20	8.15	50	4.20	8.15
51	4.56	8.84	51	4.56	8.84
52	5.03	9.76	52	5.03	9.76
53	5.56	10.79	53	5.56	10.79
54	6.20	12.04	54	6.20	12.04
55	6.97	13.44	55	6.97	13.44
56	7.77	14.88	56	7.77	14.88
57	8.62	16.41	57	8.62	16.41
58	9.40	17.67	58	9.40	17.67
59	10.25	19.10	59	10.25	19.10
60	11.26	20.80	60	11.26	20.80

Central United Life Insurance Company

PDUL08 Annual COI Rates

Guaranteed			Current		
Attained			Attained		
Age	Nonsmoker	Smoker	Age	Nonsmoker	Smoker
61	12.48	22.85	61	12.48	22.85
62	13.95	25.29	62	13.95	25.29
63	15.59	27.99	63	15.59	27.99
64	17.31	30.76	64	17.31	30.76
65	19.14	33.53	65	19.14	33.53
66	21.01	36.24	66	21.01	36.24
67	22.94	38.97	67	22.94	38.97
68	25.04	41.85	68	25.04	41.85
69	27.22	44.78	69	27.22	44.78
70	29.83	48.26	70	29.83	48.26
71	32.77	52.13	71	32.51	50.89
72	36.58	57.21	72	34.64	53.89
73	40.61	62.42	73	37.58	57.25
74	44.88	67.77	74	40.77	60.81
75	49.58	73.88	75	44.08	64.62
76	54.72	80.45	76	49.05	70.64
77	60.66	87.98	77	54.33	76.79
78	67.58	96.66	78	59.88	83.00
79	75.54	106.51	79	65.86	89.48
80	84.27	117.12	80	72.52	96.51
81	94.55	129.63	81	80.07	104.35
82	105.47	142.58	82	88.75	113.26
83	117.17	156.08	83	98.76	123.38
84	130.21	170.93	84	109.92	134.70
85	144.92	188.09	85	122.16	146.39
86	160.79	206.18	86	135.17	158.92
87	179.37	227.35	87	149.12	171.29
88	199.41	249.65	88	163.73	185.53
89	220.81	272.87	89	179.28	199.64
90	242.66	295.51	90	196.01	215.38
91	260.51	311.97	91	214.35	232.49
92	281.44	331.50	92	234.96	251.53
93	306.41	354.38	93	259.16	275.47
94	335.69	380.62	94	291.49	307.74

APPENDIX II

Lapse-Support Test

Results - Lapse Support Test

PDUL08				
Policy Year	Inforce End of Year	Accumulated Cash Flows	Cash Surrender Values	Result
15	63,727,720	16,263,682	15,657,040	Pass
16	63,208,130	17,508,186	16,609,360	Pass
17	62,640,120	18,719,831	17,484,260	Pass
18	62,021,780	19,907,463	18,317,280	Pass
19	61,348,690	21,062,651	19,096,950	Pass
20	60,620,960	22,182,463	19,819,600	Pass
21	59,702,220	23,131,019	20,348,180	Pass
22	58,894,040	24,183,051	20,954,470	Pass
23	58,027,510	25,185,267	21,484,850	Pass
24	57,094,860	26,128,512	21,935,570	Pass
25	56,092,820	27,009,041	22,303,770	Pass
26	54,994,100	27,798,167	22,568,030	Pass
27	53,825,000	28,512,327	22,735,190	Pass
28	52,579,480	29,142,658	22,801,490	Pass
29	51,261,940	29,685,160	22,756,400	Pass
30	49,876,310	30,137,952	22,596,650	Pass
31	48,245,470	30,436,278	22,267,770	Pass
32	46,769,180	30,734,399	21,909,890	Pass
33	45,229,180	30,933,538	21,425,660	Pass
34	43,630,140	31,034,213	20,817,810	Pass
35	41,992,160	31,037,026	20,087,410	Pass
36	40,313,220	30,941,647	19,230,040	Pass
37	38,592,770	30,753,242	18,246,530	Pass
38	36,835,380	30,468,293	17,132,650	Pass
39	32,837,880	30,366,234	16,246,510	Pass
40	31,410,330	30,310,910	15,429,000	Pass
41	29,810,980	30,044,908	14,372,290	Pass
42	28,312,570	29,828,171	13,330,470	Pass
43	26,769,050	29,514,078	12,156,790	Pass
44	25,190,120	29,107,863	10,856,730	Pass
45	23,587,530	28,616,120	9,434,808	Pass
46	21,978,200	28,073,539	7,966,847	Pass
47	15,745,090	28,223,903	7,331,542	Pass
48	14,587,690	28,347,905	6,643,415	Pass
49	13,720,120	28,456,434	5,912,620	Pass
50	12,824,550	28,513,370	5,095,490	Pass
51	11,905,050	28,519,446	4,191,125	Pass
52	10,970,540	28,479,410	3,200,583	Pass
53	10,025,390	28,395,417	2,125,791	Pass
54	8,551,546	28,344,029	1,047,290	Pass
55	1,939,627	28,994,899	877,839	Pass
56	1,844,866	29,775,124	800,146	Pass
57	1,744,353	30,570,558	711,905	Pass
58	1,639,082	31,382,176	612,762	Pass
59	1,530,009	32,210,902	502,173	Pass
60	1,417,733	33,057,459	379,641	Pass
61	1,302,823	33,923,076	246,126	Pass
62	1,089,316	34,822,613	115,272	Pass
63	0	35,763,371	0	Pass
64	0	36,825,543	0	Pass
65	0	37,919,262	0	Pass
66	0	39,045,464	0	Pass
67	0	40,205,114	0	Pass
68	0	41,399,206	0	Pass
69	0	42,628,762	0	Pass
70	0	43,894,836	0	Pass
71	0	45,198,513	0	Pass

APPENDIX III

Self-Support Test

Results - Self Support Test

PDUL08				
Policy Year	Inforce End of Year	Accumulated Cash Flows	Cash Surrender Values	Result
15	41,775,350	10,491,838	10,256,610	Pass
16	39,764,850	10,855,303	10,441,060	Pass
17	37,818,310	11,160,767	10,546,890	Pass
18	35,933,920	11,418,959	10,602,570	Pass
19	34,108,550	11,629,756	10,606,530	Pass
20	32,341,840	11,796,466	10,562,060	Pass
21	30,568,020	11,858,827	10,408,590	Pass
22	28,933,380	11,955,601	10,283,810	Pass
23	27,352,400	12,014,636	10,115,900	Pass
24	25,820,940	12,036,441	9,908,281	Pass
25	24,337,560	12,024,210	9,664,688	Pass
26	22,890,400	11,970,347	9,380,775	Pass
27	21,491,580	11,887,365	9,064,899	Pass
28	20,138,370	11,776,350	8,720,294	Pass
29	18,832,340	11,640,478	8,347,635	Pass
30	17,574,490	11,483,625	7,950,439	Pass
31	16,308,930	11,289,983	7,516,259	Pass
32	15,161,990	11,111,675	7,092,609	Pass
33	14,061,160	10,920,472	6,651,936	Pass
34	13,006,910	10,720,256	6,198,923	Pass
35	12,003,630	10,514,623	5,737,366	Pass
36	11,049,040	10,306,612	5,269,208	Pass
37	10,141,390	10,100,412	4,797,630	Pass
38	9,279,993	9,897,626	4,324,316	Pass
39	7,959,736	9,765,639	3,933,639	Pass
40	7,297,980	9,665,758	3,581,552	Pass
41	6,641,617	9,543,599	3,201,865	Pass
42	6,044,676	9,453,388	2,847,486	Pass
43	5,476,136	9,367,018	2,490,450	Pass
44	4,937,078	9,287,612	2,134,035	Pass
45	4,428,663	9,218,219	1,780,979	Pass
46	3,952,642	9,166,506	1,446,184	Pass
47	2,736,828	9,257,866	1,275,903	Pass
48	2,432,833	9,358,668	1,108,124	Pass
49	2,191,259	9,471,023	944,736	Pass
50	1,961,033	9,590,243	779,904	Pass
51	1,742,482	9,717,526	614,590	Pass
52	1,536,531	9,854,575	449,967	Pass
53	1,343,262	10,002,571	287,216	Pass
54	1,098,342	10,171,968	137,125	Pass
55	244,004	10,444,493	110,447	Pass
56	222,339	10,740,147	96,453	Pass
57	201,349	11,044,650	82,201	Pass
58	181,160	11,358,403	67,759	Pass
59	161,874	11,681,799	53,171	Pass
60	143,536	12,015,204	38,486	Pass
61	126,177	12,359,037	23,892	Pass
62	101,122	12,714,953	10,701	Pass
63	0	13,083,787	0	Pass
64	0	13,472,375	0	Pass
65	0	13,872,505	0	Pass
66	0	14,284,518	0	Pass
67	0	14,708,768	0	Pass
68	0	15,145,619	0	Pass
69	0	15,595,444	0	Pass
70	0	16,058,628	0	Pass
71	0	16,535,570	0	Pass

SERFF Tracking #:

CEUL-128863128

State Tracking #:

Company Tracking #:

State:

Arkansas

Filing Company:

Central United Life Insurance Company

TOI/Sub-TOI:

L08 Life - Other/L08.000 Life - Other

Product Name:

CUL Annual Illustration Certification

Project Name/Number:

/

Supporting Document Schedules

		Item Status:	Status Date:
Satisfied - Item:	Cover Letter		
Comments:			
Attachment(s):			
AR_CUL-ILLCERT2013Cvrltr.pdf			

CENTRAL UNITED

January 23, 2013

The Honorable Jay Bradford
Arkansas Insurance Department
1200 West Third Street
Little Rock, AR 72201-1904

RE: **Central United Life Insurance Company**
NAIC Number: 61883
FEIN Number: 42-0884060
SERFF Tracking No.: CEUL-128863128

Dear Commissioner Bradford:

This letter is written in regards to the above referenced filing.

Enclosed please find our illustration actuary certification from our Appointed Illustration Actuary. In addition, we certify the following:

- (1) The illustration formats meet the requirements of the rules or regulation of the state in which they are used;
- (2) The illustration scales used in insurer-authorized illustrations are those scales certified by the illustration actuary; and
- (3) The company has provided its agents with information about the expense allocation methodology used by the company in its illustrations (the GRET table).

If you have any questions regarding this matter, please feel free to contact Genetha Roberson at 1-800-669-9030, extension 6435 or email at groberson@manhattanlife.com.

Sincerely,



Dan George
President