

Formula Rate - Non-Levelized

For the 12 months ended 12/31/2016

Rate Formula Template
Utilizing EKPC 2016 Form FF1 Data (ver, FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

Line No.			Allocated Amount
1	GROSS REVENUE REQUIREMENT (page 3, line 29)		\$ 75,814,415
	REVENUE CREDITS		
2	Account No. 454	Note A (page 4, line 34)	
3	Account No. 456.1 (Net of Revenues from Grandfathered Transactions)	(page 4, line 35)	
4	Revenues from Grandfathered Transactions	Note B	
5	Revenues from service provided by the ISO at a discount		
5a	Transmission Enhancement Credit		
6	TOTAL REVENUE CREDITS (sum lines 2-5b)		\$ 495,174
6a	True-up Adjustment	Note C	\$ -
7	NET REVENUE REQUIREMENT	(line 1 minus line 6 plus line 6a)	<u>75,319,241</u>
	DIVISOR		
8	1 CP	Note D	2,878,071
9	12 CP	Note E	2,224,917
10	Reserved		
11	Reserved		
12	Reserved		
13	Reserved		
14	Reserved		
15	Annual Cost (\$/kW/Yr) - 1 CP	(line 7 / line 8)	\$26.170
16	Annual Cost (\$/kW/Yr) - 12 CP	(line 7 / line 9)	\$33.853
17	Network Rate (\$/kW/Mo)	(line 15 / 12)	\$2.181
17a	Point-To-Point Rate (\$/kW/Mo)	(line 16 / 12)	\$2.821
			<u>On-Peak Rate</u>
18	Point-To-Point Rate (\$/kW/Wk)	(line 16 / 52; line 16 / 52)	\$0.651
19	Point-To-Point Rate (\$/kW/Day)	(line 16 / 260; line 16 / 365)	\$0.130 Capped at weekly rate
20	Point-To-Point Rate (\$/MWh)	(line 16 / 4,160; line 16 / 8,760 * 1000)	\$8.138 Capped at weekly and daily rate
			<u>Off-Peak Rate</u>
			\$0.093
			\$3.865

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East Kentucky Power Cooperative, Inc.

Line No.	(1) RATE BASE	(2) Form No. 1 Page, Line, Col.	(3) Company Total	(4) Allocator	(5) Transmission (Col. 3 times Col. 4)
GROSS PLANT IN SERVICE					
1	Production	204.46.g	\$ 3,151,045,528	NA	
2	Transmission	206.58.g	612,639,964	TP 0.97387	\$ 596,629,561
3	Distribution	206.75.g	221,851,358	NA	
4	General & Intangible	204.5.g & 206.90.g	123,597,196	W/S 0.16252	20,086,885
5	Common		0	CE 0.00000	0
6	TOTAL GROSS PLANT (sum lines 1-5)		\$ 4,109,134,046	GP= 15.008%	\$ 616,716,446
ACCUMULATED DEPRECIATION					
7	Production	219.20-24.c	\$ 1,050,073,719	NA	
8	Transmission	219.25.c	180,421,776	TP 0.97387	\$ 175,706,731
9	Distribution	219.26.c	67,412,652	NA	
10	General & Intangible	219.28.c	89,218,578	W/S 0.16252	14,499,709
11	Common		0	CE 0.00000	0
12	TOTAL ACCUM. DEPRECIATION (sum lines 7-11)		\$ 1,387,126,725		\$ 190,206,440
NET PLANT IN SERVICE					
13	Production	(line 1 - line 7)	\$ 2,100,971,809		
14	Transmission	(line 2 - line 8)	432,218,188		\$ 420,922,830
15	Distribution	(line 3 - line 9)	154,438,706		
16	General & Intangible	(line 4 - line 10)	34,378,618		5,587,176
17	Common	(line 5 - line 11)	0		0
18	TOTAL NET PLANT (sum lines 13-17)		\$ 2,722,007,321	NP= 15.669%	\$ 426,510,006
ADJUSTMENTS TO RATE BASE					
19	Account No. 281 (enter negative)	272.Total 281.k	\$ -	NA zero	\$ -
20	Account No. 282 (enter negative)	274.Total 282.k	0	NP 0.15669	0
21	Account No. 283 (enter negative)	276.Total 283.k	0	NP 0.15669	0
22	Account No. 190	234.Total 190.c	0	NP 0.15669	0
23	Account No. 255 (enter negative)	266.Total.h	0	NP 0.15669	0
24	TOTAL ADJUSTMENTS (sum lines 19- 23)		\$ -		\$ -
25	LAND HELD FOR FUTURE USE	214.Total.d, Note F	\$ -	1.00000	\$ -
WORKING CAPITAL					
26	CWC	calculated, Note G	\$ 8,660,439		4,329,205
27	Materials & Supplies	227.8.c	24,483,507	TE 0.91186	22,325,611
28	Prepayments (Account 165)	110.46.c, Note G	5,752,970	GP 0.15008	863,430
29	TOTAL WORKING CAPITAL (sum lines 26 - 28)		\$ 38,896,916		\$ 27,518,246
30	RATE BASE (sum lines 18, 24, 25, & 29)		\$ 2,760,904,237		\$ 454,028,252

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East Kentucky Power Cooperative, Inc.

Line No.	(1)	(2) Form No. 1 Page, Line, Col.	(3) Company Total	(4) Allocator	(5) Transmission (Col. 3 times Col. 4)
O&M					
1	Transmission	321,100	\$ 52,158,212	TE 0.91186	\$ 47,561,158
2	Less Account 565	321,Acct 565	22,004,055	TE 0.91186	20,064,690
3	A&G	321.168	40,368,239	W/S 0.16252	6,560,603
4	Less FERC Annual Fees	N/A	0	W/S 0.16252	0
5	Less Non-safety Advertising	Note H	218,787	W/S 0.16252	35,557
5a	Less KPSC Regulatory Expenses	Note H	1,657,076		
5b	Plus Transmission Related Regulatory Exp	Note H	282,026	TE 0.91186	257,169
5c	Plus Prorated PJM Transition Expense	Note H	354,956		354,956
6	Common		0	CE 0.00000	0
7	Transmission Lease Payments		0	1.00000	0
8	TOTAL O&M (sum lines 1, 2a, 3, 5a, 6, 7 less lines 1a, 2, 4, 5)		\$ 69,283,514		\$ 34,633,639
DEPRECIATION EXPENSE					
9	Transmission	336.7.f	\$ 9,583,015	TP 0.97387	\$ 9,332,578
10	General and Intangible	336.9.f	5,431,114	W/S 0.16252	882,659
11	Common	336.10.f	0	CE 0.00000	0
12	TOTAL DEPRECIATION (Sum lines 9 - 11)		\$ 15,014,129		\$ 10,215,237
TAXES OTHER THAN INCOME TAXES					
LABOR RELATED					
13	Payroll	Note I	\$ -	W/S 0.16252	\$ -
14	Highway and vehicle	Note I	0	W/S 0.16252	0
PLANT RELATED					
16	Property	Note I	0	GP 0.15008	0
17	Gross Receipts		0	NA NA	0
18	Other		0	GP 0.15008	0
19	Payments in lieu of taxes		0	GP 0.15008	0
20	TOTAL OTHER TAXES (sum lines 13 - 19)		\$ -		\$ -
INCOME TAXES					
21	T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =	Note J	0.000000%		
22	CIT=(T/1-T) * (1-(WCLTD/R)) =		0.000000%		
23	1 / (1 - T) = (from line 21)		0.0000		
24	Amortized Investment Tax Credit	266.8.f (enter negative)	0		
25	Income Tax Calculation (line 22 * line 28)		\$ -	NA	\$ -
26	ITC adjustment (line 23 * line 24)		0	NP 0.15669	0
27	Total Income Taxes	(line 25 plus line 26)	\$ -		\$ -
RETURN					
28	[Rate Base (page 2, line 30) * Rate of Return (page 4, line 29)]		\$ 188,298,608	NA	\$ 30,965,539
29	REVENUE REQUIREMENT (sum lines 8, 12, 20, 27, 28)		\$ 272,596,250		\$ 75,814,415

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For the 12 months ended 12/31/2016

Rate Formula Template
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.
SUPPORTING CALCULATIONS AND NOTES

Line No.	TRANSMISSION PLANT INCLUDED IN ISO RATES				
1	Total transmission plant (page 2, line 2, column 3)				612,639,964
2	Less transmission plant excluded from ISO rates				0
3	Less transmission plant included in OATT Ancillary Services	See Supporting Exhibit, Page 5 of 8, Line 4, (Note K)			16,010,403
4	Transmission plant included in ISO Rates (line 1 less lines 2 & 3)				<u>596,629,561</u>
5	Percentage of transmission plant included in ISO Rates (line 4 divided by line 1)			TP=	0.97387
	TRANSMISSION EXPENSES				
6	Total transmission expenses (page 3, line 1, column 3)				52,158,212
7	Less transmission expenses included in OATT Ancillary Services	Note L			<u>3,320,762</u>
8	Included transmission expenses (line 6 less line 7)				<u>48,837,450</u>
9	Percentage of transmission expenses after adjustment (line 8 divided by line 6)				0.93633
10	Percentage of transmission plant included in ISO Rates (line 5)			TP	0.97387
11	Percentage of transmission expenses included in ISO Rates (line 9 times line 10)			TE=	0.91186
	WAGES & SALARY ALLOCATOR (W&S)				
		Form 1 Reference	\$	TP	Allocation
12	Production	354.18.b	35,479,806	0.00	0
13	Transmission	354.19.b	9,891,432	0.97	9,632,935
14	Distribution	354.20.b	998,302	0.00	0
15	Other	354.21,22,23,24.b	<u>12,903,149</u>	0.00	<u>0</u>
16	Total (sum lines 12-15)		<u>59,272,689</u>		<u>9,632,935</u> = <u>0.16252</u>
	COMMON PLANT ALLOCATOR (CE)				
			%	% Electric	W&S Allocator
17	Electric	200.3.c	1.00	(line 17 / line 20)	(line 16)
18	Gas	201.3.d	0.00	1.00000 *	0.16252
19	Water	201.3.e	<u>0.00</u>		
20	Total (sum lines 17 - 19)		<u>1.00</u>		
	RETURN (R)				
21		Long Term Interest (117, sum of 58.c through 65.c)			<u>\$ 113,041,720</u>
22		Preferred Dividends (118.29c) (positive number)			0
	Development of Cost of Capital:				
23	Long Term Debt	(112.23c) See Supporting Exhibit, Page 7 of 8			\$2,486,189,631
24	Proprietary Capital	(112.15.c)			575,825,247
25	Less Account 216.1	(112.12.c) (enter negative)			<u>0</u>
26	Total Capital	(sum lines 23-25)			<u>\$ 3,062,014,878</u>
			\$	%	Cost
27	Long Term Debt (112.23c)	Note M	<u>2,486,189,631</u>	81.19%	<u>4.547%</u>
28	Proprietary Capital (112.15.c)	Note N	<u>575,825,247</u>	18.81%	<u>16.636%</u>
29	Total (sum lines 27-28)		<u>3,062,014,878</u>		<u>R = 6.820%</u>
30	Effective TIER	Note O			TIER = 1.50
	REVENUE CREDITS				
	ACCOUNT 447 (BUNDLED SALES FOR RESALE)	(310-311)			
31	a. Bundled Non-RQ Sales for Resale (311.x.k)				\$ -
32	b. Bundled Sales for Resale included in Divisor on page 1				<u>0</u>
33	Total of (a)-(b)				<u>\$0</u>
34	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	See Supporting Exhibit, Page 6 of 8, Line 3 (Note P)			\$ 143,148
35	ACCOUNT 456.1 (OTHER ELECTRIC REVENUES)	See Supporting Exhibit, Page 6 of 8, Line 17 (Note Q)			\$ 236,693

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For the 12 months ended 12/31/2016

Rate Formula Template
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)

East Kentucky Power Cooperative, Inc.

General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.#)

References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)

Note

Letter

- A The revenues credited on page 1 lines 2-5c shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, ancillary services, or facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Formulary Rate Template.
- B Revenue from AEP Grandfathered Agreement. See Rev Cred Support, Attachment H-24A, Supporting Exhibit, page 6 of 8, line 16
- C Calculated in accordance with the EKPC Formulary Rate Protocols in Attachment H-24B of this Tariff. See Appendix C
- D EKPC 1 CP is EKPC's highest Monthly Firm Transmission System Peak Load based on the source data as described in Note 1 of Attachment H-24A, Page 8 of 8, plus transmission service provided for others over the EKPC transmission system, plus wheel-out to EKPC load connected to AEP/KP, Duke Ky, and LGE/KU
See Attachment H-24A, Supporting Exhibit, Page 8 of 8
- E EKPC 12 CP is EKPC's Monthly Firm Transmission System Peak Load based on the source data as described in Note 1 of Attachment H-24A, Page 8 of 8, plus transmission service provided for others over the EKPC transmission system, plus wheel-out to EKPC load connected to AEP/KP, Duke Ky, and LGE/KU
See Attachment H-24A, Supporting Exhibit, Page 8 of 8
- F Identified in EKPC Form FF1 as being non-transmission related. See Attachment H-24A, Supporting Exhibit, Pg 2 of 8
- G Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at page 3 of 5, line 8, column 5.
Prepayments are the electric related prepayments booked to Account No. 165 and reported on EKPC Form FF1, Ref Pg 110, line 46.
- H Line 5 - Remove non-safety related advertising included in Account 930.1. See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 3
Line 5a - Remove Total Regulatory Commission Expenses - See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 4
- Line 5b - Add Back Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting - See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 6
- Line 5c - Add EKPC costs relating to PJM transition. See Attachment H-24A, Supporting Exhibit, Page 3 of 8, Line 14
- I In accordance with RUS accounting standards, EKPC allocates all payroll and property taxes to the functional account. Labor- and plant-related taxes are already included in the appropriate transmission account.
- J As a member-owned non-profit RUS generation and transmission cooperative, EKPC is exempt from state and from federal income taxes under 501(c)(12) of Internal Revenue Code
- K Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- L Removes dollar amount of transmission expenses included in the OATT ancillary services rates, included in Account 561. See Attachment H-24A, Supporting Exhibit, Page 4 of 8.
- M Debt cost rate = long-term interest (line 21) / long term debt (line 27).
- N Proprietary Capital Cost calculated to achieve TIER of 1.50
- O TIER value approved by KPSC in Case No. 2010-000167
- P Includes income related only to transmission facilities, such as pole attachments, rentals and special use.
- Q Net of revenue from retained legacy transactions. See Attachment H-24A, Supporting Exhibit, page 6 of 8.

For the 12 months ended 12/31/2016

East Kentucky Power Cooperative, Inc.
Transmission Formula Rate Revenue Requirement
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)
For Rates Effective January 1, 2016

Schedule 1A Rate Calculation

Line No.	Source	Revenue Requirement
A. Schedule 1A Annual Revenue Requirements		
1	Total Load Dispatch & Scheduling (Account 561)	\$ 3,320,762
	Less allocated amount for steam production [(Line 6c/Line 6b) * Line 1]	\$ 53,309
	Total Load Dispatch & Scheduling (Account 561) excluding Steam	\$ 3,267,453
2	Revenue Credits for Schedule 1A	\$ -
3	Net Schedule 1A Revenue Requirement for Zone	\$ 3,267,453
4	Less: True Up Under/(Over) Recovery for 12 months ended 12/31/2015	\$ -
5	Schedule 1A Recovery Amount for 12 Months ended 12/31/2016	\$ 3,267,453
B. Schedule 1A Rate Calculations		
6	2015 Requirements Sales for Resale	12,663,428 MWh
6a	Plus Non-requirements Sales for Resale	1,182
6b	Subtotal	12,664,610
6c	Less Equivalent Steam	203,307
6d	Net MWh	12,461,303 MWh
7	Schedule 1A rate \$/MWh (Line 5 / Line 6)	(Line 3 / Line 6) \$0.2622 \$/MWh

Notes:

- (1) Revenue received pursuant to PJM Schedule 1A revenue allocation procedures for transmission service outside of EKPC's zone during the year used to calculate rates under Attachment H-24A
- (2) Amount from Attachment H-24A, Appendix C, line 13 for stated year.
- (3) Sourced from EKPC Form FF1, Ref Pg 401, adjusted for equivalent steam sold

Rate Formula Template
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.
RTEP - Transmission Enhancement Charges

To be completed in conjunction with Attachment H-24A

Line <u>No.</u>	(1)	(2)	(3)	(4)
		Attachment H-24A <u>Page, Line, Col.</u>	<u>Transmission</u>	<u>Allocator</u>
	TRANSMISSION PLANT			
1	Gross Transmission Plant - Total	Attachment H-24A, p 2, line 2 col 5 (Note A)	596,629,561	
2	Net Transmission Plant - Total	Attachment H-24A, p 2, line 14 col 5 (Note B)	420,922,830	
	O&M EXPENSE			
3	Total O&M Allocated to Transmission	Attachment H-24A, p 3, line 8 col 5	34,633,639	
4	Annual Allocation Factor for O&M	(line 3 divided by line 1 col 3)	5.80%	5.80%
	GENERAL AND COMMON (G&C) DEPRECIATION EXPENSE			
5	Total G&C Depreciation Expense	Attachment H-24A, p 3, lines 10 & 11, col 5 (Note H)	882,659	
6	Annual Allocation Factor for G&C Depreciation Expense	(line 5 divided by line 1 col 3)	0.15%	0.15%
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attachment H-24A, p 3, line 20 col 5	-	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.00%	0.00%
9	Annual Allocation Factor for Expense	Sum of lines 4, 6 and 8		5.95%
	INCOME TAXES			
10	Total Income Taxes	Attachment H-24A, p 3, line 27 col 5	-	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	0.00%	0.00%
	RETURN			
12	Return on Rate Base	Attachment H-24A, p 3, line 28 col 5	30,965,539	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	7.36%	7.36%
14	Annual Allocation Factor for Return	Sum of lines 11 and 13		7.36%

Note

- A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-24A and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- B Net Transmission Plant is that identified on page 2 line 14 of Attachment H-24A and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1 and includes CWIP in rate base if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment H-24A page 3 line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology if applicable.
- G The Network Upgrade Charge is the value to be used in PJM OATT Schedule 26.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in Attachment H-24A Appendix B, page 2, column 9.

For the 12 months ended 12/31/2016

East Kentucky Power Cooperative, Inc.
RTEP - Transmission Enhancement Charges

Network Upgrade Charge Calculation By Project

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Line No.	Project Name	RTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Annual Revenue Requirement	True-Up Adjustment	Network Upgrade Charge
		(Note C)	(Page 1 line 7)	(Col. 3 * Col. 4)	(Note D)	(Page 1 line 12)	(Col. 6 * Col. 7)	(Note E)	(Sum Col. 5, 8 & 9)	(Note F)	Sum Col. 10 & 11 (Note G)	
1a		\$ -	5.95%	\$0.00	\$ -	7.36%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
1b		\$ -	5.95%	\$0.00	\$ -	7.36%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
1c		\$ -	5.95%	\$0.00	\$ -	7.36%	\$0.00	\$0	\$0.00	\$ -	\$0.00	
2	Annual Totals								\$0	\$0	\$0	
3	RTEP Transmission Enhancement Charges for Attachment H-24A, Page 1, Line 5c											\$0

Note Letter

- A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-24A and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- B Net Transmission Plant is that identified on page 2 line 14 of Attachment H-24A and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1 and includes CWIP in rate base if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment H-24A page 3 line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology if applicable.
- G The Network Upgrade Charge is the value to be used in Schedule 26.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in page 2 column 9.

For the 12 months ended 12/31/2016

Rate Formula Template
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.
Calculation of Prior Year Transmission Revenue Requirement True-up Adjustment
To be completed in conjunction with Attachment H-24A

Line No.	(1)	(2)
<u>Reconciliation Adjustment for Transmission Revenue Requirements</u>		
1	Actual Transmission Revenue Requirement for 12 Months Ended 12/31/2016 including True Up for 12 months ended 12/31/2015 (1)	\$ 65,474,699.49
2	Less: True Up Under/(Over) Recovery Adjustment for EKPC Appendix H-24A: Adjustment for 12 mo. ended 12/31/2015 (2)	\$ (9,844,541.45)
3	Transmission revenue requirements for the 12 months ended 12/31/2016 (Line 1 - Line 2)	\$ 75,319,240.94
4	Less: Actual Transmission Revenue Collected for 12 months Ended 12/31/2016 (3)	\$ 75,258,797.81
5	True-Up Principal Under(Over) Recovery before Interest (Line 3 - Line 4)	\$ 60,443.13
6	Monthly Interest Rate--Final FERC rate (4)	0.290%
7	Number of Months being Trued Up	24
8	Interest (Line 5 x Line 6 x Line 7)	\$ 4,206.84
9	True Up Principal & Interest Under(Over) Recovery--Preliminary (5) (Line 5 + Line 8)	\$ 64,649.97

Notes:

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- (1) Revenue requirement from Page 1 of 5, line 7 of Attachment H-24A for the referenced year.
(2) EKPC Attachment H-24A, page 1 of 5, Line 6a for the referenced recovery year
(3) Revenue received under PJM Tariff Schedules 7 and 8 under Attachment H-24A for the referenced year.
(4) See: <http://www.ferc.gov/enforcement/acct-matts/interest-rates.asp> for the appropriate Months
(5) Goes to Attachment H-24A, page 1 of 5, line 6a

For the 12 months ended 12/31/2016

Rate Formula Template
Utilizing Attachment H-24A

East Kentucky Power Cooperative, Inc.
Calculation of Prior Year EKPC Schedule 1A Revenue Requirement True-up Adjustment
To be completed in conjunction with Attachment H-24A

Line No.	(1)	(2)
	<u>Reconciliation Adjustment for Schedule 1A Charges</u>	
10	Actual Schedule 1-A Costs for 12 Months Ended 12/31/2016 including True Up for 12 months ended 12/31/2015 (6)	\$ 3,741,284.07
11	Less: True Up Under/(Over) Recovery Adjustment for EKPC Sch. 1A for for 12 mo. ended 12/31/2015 (7)	\$ 473,831.08
12	True-Up Principal Under(Over) Recovery before Interest (Line 10 - Line 11)	\$3,267,452.99
13	Less: Actual Sch. 1A Revenue Collected for 12 months Ended 12/31/2016 (8)	<u>\$3,163,353.32</u>
14	True-Up Principal Under(Over) Recovery before Interest (Line 12 - Line 13)	\$ 104,099.67
15	Monthly Interest Rate--Final FERC rate (9)	0.290%
16	Number of Months being Trued Up	24
17	Interest (Line 14 x Line 15 x Line 16)	\$ 7,245.34
18	True Up Principal & Interest Under(Over) Recovery--Preliminary (10) (Line 14 + Line 17)	<u>\$ 111,345.01</u>

Notes:

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- (6) Revenue requirement calculated using EKPC Attachment H-24A, Appendix A and actual cost information for the referenced
- (7) EKPC Attachment H-24A, Appendix A, Line 6a for the referenced recovery year.
- (8) Revenue received from PJM under PJM Tariff Schedules 7 and 8 for the EKPC Zone under Attachment H-24A for the referenced
- (9) See: <http://www.ferc.gov/legal/acct-matts/interest-rates.asp> for the appropriate Month
- 10) Goes to Attachment H-24A, Appendix A, line 4.

East Kentucky Power Cooperative, Inc.
Depreciation Rates
Rates effective for year ending December 31, 2016

<u>Line No.</u>	<u>FERC Account Number</u> (A)	<u>Company Account Number</u> (B)	<u>Description</u> (C)	<u>Actual Accrual Rates</u> (D) %
Transmission Plant (1)				
1	350	350010	Rights of Way (No depr on land)	-
2	353	353000	Station Equipment	1.790
3	353	353010	Station Equipment - ECS	1.790
4	354	354000	Towers and Fixtures - Trans Plant	0.710
5	355	355000	Poles & Fixtures	1.560
6	356	356000	Overhead Conductors & Devices	1.490
7	359	359000	Roads and Trails - Trans Plant	2.778
General and Intangible Plant				
8	303	303000	Miscellaneous Intangible Plant	2.857
9	390	390000	Structures and Improvements - General Plant	4.778
10	391	391000	Office Furn & Equip - Gen Plant	0.200
11	391	391001	Office Furn & Equip - Peoplesoft	20.000
12	392	392000	Transportation Equipment	16.667
13	393	393000	Stores Equipment	10.000
14	394	394000	Tools, Shop & Garage Equipment	10.000
15	395	395000	Lab Equipment - General Plant	10.000
16	396	396000	Power Operated Equip - Gen Plant	10.000
17	397	397000	Communication Equipment - General Plant	10.000
18	397	397000	Communication Bldgs & Towers	3.030
19	397	397001	Communication Eq - ECS - General Plant	10.000
20	398	398000	Misc Equip - General Plant	10.000

NOTES:

- (1) Depreciation Rates approved in KPSC Case No. 2006-00236.

East Kentucky Power Cooperative
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)

**Materials and Supplies (1)
Allocation of Account 163**

<u>Line</u> <u>No.</u>		<u>M&S</u>	<u>Percentage</u>	<u>Acct 163 ⁽²⁾</u>	<u>Total M&S ⁽³⁾</u>
1	Production	\$ 36,570,299	59.84%	-	
2	Transmission	24,483,507	40.06%	-	
3	Distribution	57,801	0.09%	-	
4	Total M&S	\$ 61,111,607	100.00%	-	\$ 24,483,507

Notes:

(1) Source - EKPC Form FF1 Ref Pg 227, Column C

(2) Unallocated M&S balance as of Year End

(3) To Attachment H-24A, Page 2 of 5, Line 27.

**East Kentucky Power Cooperative, Inc.
 Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)**

Detail of Land Held for Future Use (1)

<u>Line No.</u>	<u>Property Description</u>	<u>Transmission Related</u>	<u>Non-Transmission Related Portion</u>	<u>Reported on EKPC Form FF1</u>
1.	Proposed East London Substation Site	\$ -	\$ 27,462	\$ 27,462
2		-	-	-
3		-	-	-
4		-	-	-
5		-	-	-
6		-	-	-
7	Balances	<u>\$ -</u>	<u>\$ 27,462</u>	<u>\$ 27,462</u>

Notes:
 (1) Source: EKPC Form FF1 Ref Pg 214, Account 105

**East Kentucky Power Cooperative, Inc.
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)**

Safety and Non-Safety Related Advertising, Regulatory Expense, and PJM Integration Costs

<u>Line No.</u>	<u>Source</u>	<u>EKPC</u>
1	General Advertising - Account 930.1	
	Form FF1, P. 321, col. B	\$ 218,787
2	Amount of Safety Related Advertising	<u>-</u>
3	Amount of Non-Safety Related Advertising (1)	\$ <u>218,787</u>
4	Regulatory Commission Expense - Account 928	
	Note 2	\$ 1,657,076
5	Less: Regulatory Expense unrelated to transmission (2)	(1,387,770)
6	Regulatory Expense Assoc w FERC Transmission Tariff	12,720
7	Regulatory Commission Expense Related to Transmission	<u>\$ 282,026</u>
8	PJM Integration Costs	
	Note 5	
9	Consulting	\$ 424,542
10	Legal Fees	\$ 1,358,555
11	PJM Charges	\$ 627,099
12	Equipment / Software Upgrades (Transmission Only)	<u>\$ 145,486</u>
13		<u>\$ 2,555,682</u>
14	Amortize for 3 years	\$ 354,956

Notes:

-
- (1) To Attachment H-24A, Page 3 of 5, Line 5
(2) Regulatory fees from Kentucky Public Service Commission, EKPC Form FF1, Ref Pg 321, Account 928
(3) Portion of regulatory expense for proceedings during the year that were not related to transmission, derived using the
(4) Direct costs of preparing the annual update and True-up of Transmission rates and posting the results with PJM
(5) Represents direct costs associated with EKPC's integration into PJM (transmission-related only) with three year amortization

**East Kentucky Power Cooperative, Inc.
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)**

Balancing Authority Costs

Line No.		EKPC
	A&G Expense	
1	A&G Expense, Page 321, line 168, Current Year	\$ 40,368,239
2	Adjustments	-
3	Adjusted A&G Expense - To Attachment H-24A, Page 3 of 5, Line 3	\$ 40,368,239
	Transmission Expense	
4	Transmission Expense, EKPC Form FF1, Ref Pg 321, line 100, Current Year	\$ 52,158,212
5	Adjustments	-
6	Adjusted Transmission Expense - To Attachment H-24A, Page 3 of 5, Line 1	\$ 52,158,212
	Balancing Authority Costs in 561 through 561.3	
7	B.A. Costs in Transmission Expense on EKPC Form FF1, Ref Pg 321	\$ 3,320,762
8	Less TVA Reliability Service Payments EKP Subaccount 561100	-
9	Adjusted B.A. Costs	\$ 3,320,762
10	Total Balancing Authority Costs (561.BA) in Adj Transmission Exp	\$ -
	Note 1	
11	Revenue Credits for Sched 1 / Acct 561 (2)	\$ 3,320,762
	Note 2	

Notes:

(1) Costs related to BA activities not included in Schedule 1 Costs
(2) To Attachment H-24A Page 4 of 5, Line 7

**East Kentucky Power Cooperative, Inc.
 Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)**

Determination of Transmission Plant Included in OATT Ancillary Services

<u>Line No.</u>	<u>EKPC</u>
1	Generation Step-up Transformers (1)
2	Sole use Property
3	Distribution Use
4	Transmission plant included in OATT Ancillary Services (2)

	EKPC
1	\$ 16,010,403
2	-
3	-
4	\$ 16,010,403

Notes:

(1) GSU capital costs that are included in the Transmission capital Account 353; amounts sourced from EKPC's PeopleSoft Asset Management System.

(2) To Attachment H-24A, page 4 of 5, Line 3

East Kentucky Power Cooperative, Inc.
Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)

Revenue Credits, Accounts 454, 456, 459 and GFA Revenues

Line No.			Account 454	
				EKPC
1	Per Books Total, Page 300 (Total Accts 440-459)		\$	878,371,408
2	Tower Lease Revenues in per Books Total above			-
3	Rent from Electric Property FF1 Pg 300, Account 454	Note 1		143,148
4	Portion Attributable to Transmission			100.0%
5	Revenue Credit Applicable to Attachment H-24A		\$	143,148
6	Total Account 454	Note 2	\$	143,148
			Account 456, 459	
			EKPC	
7	EKPC Form FF1, Page 300, Accounts 456 - 459	Note 3	\$	14,825,500
8	Remove Non-Transmission and Non-ISO Related Revenues:			
9	Production (Accts 456010, 456042, 456043 and 459000)			11,357,724
10	Common Transmission			-
11	Distribution			-
12	Customer Account (Accounts 456054 and 456057)			96,649
13	Administrative and General (Acct 456003)			600
14	Acct 456 less non-transmission and non-ISO revenue		\$	3,370,527
15	Total EKPC Account 456130 Transmission Service			3,009,055
16	Adjusted Total Accounts 456 - 459		\$	361,472
			GFA Revenues	
17	Less: AEP Revenue from retained legacy agreement	Note 4	\$	124,779
18	Total Other Transmission Revenue Credits	Note 5	\$	236,693

Notes:

- (1) Rent from KU for joint use of Rights of Way, Ref Pg 300, Page 1 of 2 (Acct 454)
(2) To Attachment H-24A, Page 4 of 5, line 34
(3) The amount shown in account 456 in FF1 includes revenues from sales of renewable energy credits included in account 459.
(4) Revenue from AEP GFA Account 456101- to Attachment H-24A, Page 1 of 5, Line 4.
(5) To Attachment H-24A, Page 4 of 5, Line 35

East Kentucky Power Cooperative, Inc.
 Utilizing EKPC 2016 Form FF1 Data (ver. FINAL - AUDITED)

Capital Structure
 As of December 31, 2016
 (In Dollars)

Line No.	Description				
Development of Cost of L.T. Interest					
1	Long term Interest (Note 1)	\$	113,041,720		
2	Outstanding Long Term Debt (Note 2)	\$	2,486,189,631		
3	Average Cost of Debt (Line 1/Line 2)			4.547%	
Development of Required Return					
			Value	Percent	Cost (Note 4)
4	Long Term Debt	\$	2,486,189,631	81.19%	4.547%
5	Proprietary Capital (Note 3)		575,825,247	18.81%	16.636%
6	Total (Line 4 plus Line 5)	\$	3,062,014,878		6.820%
7	Effective TIER (Note 4)			TIER =	1.50

Notes:

1. EKPC Form FF1 Ref Pg 117 Row 58, Column b, Current Year
2. EKPC Form FF1 for 2016 Ref Pg 112, Row 23 Bal at End of Year
3. EKPC Form FF1 for 2016 Ref Pg 112, Row 15 Bal at End of Year
4. 1.50.

East Kentucky Power Cooperative, Inc.

MONTHLY PEAKS IN KILOWATTS

Line No.		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Average
1	EKPC - Monthly Total Native Load (1)	2,753,419	2,504,050	1,940,031	1,739,589	1,816,729	2,072,988	2,193,087	2,170,997	2,069,203	1,589,596	2,018,802	2,542,266	25,410,756	2,117,563
2	EKPC Firm Transmission for Others (kW)														
3		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Average
4	Duke Kentucky	14,518	12,757	11,980	9,912	16,713	17,446	20,690	19,572	19,827	13,688	11,196	17,100	185,398	15,450
5	KU/LGE														
6	Bedford	3,940	3,411	2,689	2,065	2,230	2,553	2,806	2,824	2,784	1,936	2,638	3,365	33,242	2,770
7	Columbia	7,641	7,023	5,841	4,225	5,355	6,297	6,166	6,856	6,503	4,978	5,515	6,504	72,904	6,075
8	Columbia South	5,524	4,981	3,905	3,244	3,959	4,550	4,762	4,779	4,692	3,601	3,914	4,892	52,803	4,400
9	Falmouth	3,123	2,759	2,511	2,369	3,436	3,823	4,574	4,304	4,116	2,562	2,451	3,008	39,036	3,253
10	Garrard	149	222	425	95	54	52	15	15	15	15	86	79	1,224	102
11	Horse Cave	39,946	39,043	36,355	31,090	39,888	39,365	34,310	42,504	42,302	40,258	37,114	42,326	464,501	38,708
12	Hunters Bottom	2,467	2,167	1,677	1,635	1,874	1,373	1,510	1,473	1,410	991	1,567	2,106	20,351	1,696
13	Liberty	11,027	10,283	8,444	6,012	6,937	7,766	7,417	8,706	8,277	6,211	8,757	10,404	100,240	8,353
14	Mackville	847	754	526	454	355	480	499	485	479	301	504	727	6,411	534
15	Munfordville	6,460	5,624	4,506	3,433	5,641	6,375	6,157	6,813	6,579	3,779	4,971	4,604	64,943	5,412
16	Owingsville	7,349	6,502	6,182	5,655	6,518	7,383	7,575	8,037	7,740	6,380	6,100	7,002	82,422	6,869
17	Revelo	3,291	2,633	2,393	1,791	1,551	1,586	1,657	1,743	1,685	1,206	2,430	2,957	24,925	2,077
18	Russell Springs	10,499	9,716	7,140	5,340	5,496	6,437	6,300	6,630	5,983	5,207	6,961	9,259	84,967	7,081
19	Whitley City	7,872	6,601	4,455	3,534	2,946	3,855	4,039	3,856	3,730	2,705	4,964	6,325	54,862	4,574
20	Subtotal Transmission for KU/LGE	110,134	101,719	87,050	70,941	86,241	91,895	87,889	99,027	96,297	80,131	87,971	103,559	1,102,852	91,904
21	Total EKPC Firm Transmission for Others Subtotal (kW)	124,652	114,475	99,029	80,853	102,954	109,341	108,579	118,598	116,124	93,819	99,167	120,659	1,288,250	107,354
22	Total EKPC Monthly Transmission System Peak Load	2,878,071	2,618,525	2,039,060	1,820,442	1,919,683	2,182,329	2,301,666	2,289,596	2,185,327	1,683,415	2,117,968	2,662,925	26,699,007	2,224,917

Notes:

(1) Reflects the system peak demand (coincident peak) during a 60-minute clock hour. January 2016 through December 2016 information is sourced from the MV90 system.

EKPC - Monthly Total Native Load (EKPTOT)	2,783,166	2,532,270	1,963,641	1,758,453	1,847,213	2,106,416	2,219,347	2,205,000	2,102,560	1,614,549	2,046,587	2,572,219	25,751,421	2,145,952
EKPC Total Load less Wheel-Out Load (EKP - WHEEL)	2,267,157	2,056,882	1,578,715	1,400,973	1,468,689	1,655,420	1,773,860	1,776,804	1,674,077	1,273,433	1,640,668	2,083,138	20,659,816	1,721,651
EKPC Load on LGE/KU Transmission System (KU & LGE)	486,263	447,168	381,315	338,616	348,040	417,568	419,227	394,193	395,126	316,164	378,134	449,127	4,750,940	395,912
EKPC Total Load Excluding DUKE/AEP	2,753,419	2,504,050	1,940,031	1,739,589	1,816,729	2,072,988	2,193,087	2,170,997	2,069,203	1,589,596	2,018,802	2,542,266	25,410,756	2,117,563
EKPTOT less EKPC Total Load Excluding DUKE/AEP	29,747	28,220	23,611	18,865	30,484	33,429	26,260	34,003	33,357	24,952	27,786	29,953	340,665	28,389
EKPC Subs fed by DUKE (CINERGY)	21,272	20,989	17,460	13,697	24,643	27,462	19,229	26,679	26,797	20,515	20,227	22,417	261,387	21,782
EKPC Subs fed by AEP (KP_TOTAL)	8,475	7,231	6,150	5,167	5,841	5,966	7,030	7,324	6,559	4,437	7,559	7,537	79,277	6,606
EKPC Subs fed by DUKE/AEP	29,747	28,220	23,611	18,865	30,484	33,429	26,259	34,003	33,357	24,952	27,786	29,953	340,665	28,388
Check Difference	(0)	0	(0)	0	0	(0)	0	0	0	(0)	0	0		