THE EMPIRE DISTRICT ELECTRIC COMPANY d.b.a. LIBERTY

P.S.C. Mo. No. 6 Sec. 4 1st Revised Sheet No. 17q

Canceling P.S.C. Mo. No. 6 Sec. 4 Original Sheet No. 17q

For ALL TERRITORY

FUEL & PURCHASE POWER ADJUSTMENT CLAUSE
RIDER FAC
For service on and after December 1, 2020

	Accumulation Period Ending		August 31, 2020
1	Total Energy Cost (TEC) = (FC + PP + E – OSSR - REC)		56,521,028
2	Net Base Energy Cost (B)	-	60,082,592
	2.1 Base Factor (BF)		0.02415
	2.2 Accumulation Period NSI (S_{AP})		2,487,892,000
3	(TEC-B)		(3,561,564)
4	Missouri Energy Ratio (J)	*	85.52[1]
5	(TEC - B) * J		(2,860,278)[2]
6	Fuel Cost Recovery	*	95.00%
7	(TEC - B) * J * 0.95		(2,575,706)
8	True-Up Amount (T)	+	(1,423,471)
9	Prudence Adjustment Amount (P)	+	
10	Interest (I)	+	(17,232)
11	Fuel and Purchased Power Adjustment (FPA)	=	(4,016,409)
12	Forecasted Missouri NSI (S_{RP})	÷	2,257,566,452
13	Current Period Fuel Adjustment Rate (FAR)	=	(.00178)
14	Current Period FAR_{PRIM} = FAR x VAF_{PRIM}		(.00186)
15	Current Period FAR_{SEC} = FAR x VAF_{SEC}		(.00190)
16	VAF_{PRIM} = 1.0464		1.0464
17	VAF_{SEC} = 1.0657		1.0657

[1]The Missouri Energy Ratio (J), on line 4, is calculated by dividing the Missouri retail kWh sales by the Total system kWh sales for the current accumulation period as specified by the tariff.

[2]The (TEC-B)*J, on line 5, is calculated by taking the sum of (TEC-B)*J for each month of the accumulation period. Therefore, because each month is weighted differently, the amount on line 5 will not necessarily equal the product of lines three and four.

The Empire District Electric Company
Fuel Adjustment Clause
Cost Adjustment Factor Calculation
Aug 2020

		Accumulation Period							
		Mar 20	Apr 20	May 20	Jun 20	Jul 20	Aug 20	Prior Period	Total
Generation	[FC]	$ 7,424,930.72	$ 5,254,536.45	$ 6,275,628.63	$ 8,364,301.39	$ 9,277,543.09	$ 9,442,928.96		$ 46,039,869.24
Fuel - AQCS	[FC]	$ 61,594.42	$ 17,806.09	$ 59,205.86	$ 51,136.44	$ 69,121.90	$ 60,402.73		$ 319,267.44
Native Load Cost	[PP]	$ 1,133,701.18	$ 1,667,386.81	$ 2,256,431.35	$ 1,641,251.01	$ 3,596,707.51	$ 4,337,119.30		$ 14,632,597.17
Transmission Costs	[PP]	$ 469,675.63	$ 590,803.82	$ 357,084.08	$ 452,666.96	$ 408,761.32	$ 405,949.93		$ 2,684,941.74
Net of Emission Allow.	[E]	$ -	$ -	$ -	$ (3.78)	$ -	$ -		$ (3.78)
EDE Sales	[OSSR]	$ (2,275,217.10)	$ (895,306.10)	$ (967,110.54)	$ (650,422.18)	$ (1,193,013.65)	$ (1,055,927.74)		$ (7,036,997.31)
Renewable Energy Credit Revenues	[REC]	$ (40,476.66)	$ (826.05)	$ -	$ (77,344.05)	$ -	$ -		$ (118,646.76)
Total Energy Cost		$ 6,774,208.19	$ 6,634,401.02	$ 7,981,239.38	$ 9,781,585.79	$ 12,159,120.17	$ 13,190,473.18		$ 56,521,027.74
Net Base Energy Rate		$ 0.02415	0.02415	0.02415	0.02415	0.02415	0.02415		
NSI kwh		387,728,000	341,125,000	356,135,000	438,030,000	504,563,000	460,311,000		2,487,892,000
Base Energy Cost	(B)	$ 9,363,631.20	$ 8,238,168.75	$ 8,600,660.25	$ 10,578,424.50	$ 12,185,196.45	$ 11,116,510.65		$ 60,082,591.80
TEC-B		$ (2,589,423.01)	$ (1,603,767.73)	$ (619,420.87)	$ (796,838.71)	$ (26,076.28)	$ 2,073,962.53		$ (3,561,564.06)
Missouri Retail kwh Sales		300,713,121	260,472,657	274,293,118	340,734,274	414,988,757	378,996,574		1,970,198,501
Total System kwh Sales		362,847,489	317,849,617	334,873,388	387,489,287	471,536,987	429,252,300		2,303,849,068
Missouri Energy Ratio	(J)	0.8288	0.8195	0.8191	0.8793	0.8801	0.8829		0.8552
(TEC-B)*J		(2,146,113.79)	(1,314,287.65)	(507,367.63)	(700,660.28)	(22,949.73)	1,831,101.52		$ (2,860,277.57)
Fuel & PP Cost Recovery (Over)/Under {[(FC + PP + E - OSSR - REC - B) * J] * 0.95}		$ (2,038,808.10)	$ (1,248,573.27)	$ (481,999.25)	$ (665,627.26)	$ (21,802.24)	$ 1,739,546.45	$ 141,557.45	$ (2,575,706.22)
(Over)/Under Adjustment	(T)							$ (1,423,471.04)	$ (1,423,471.04)
Interest (Expense)/Income	(I)	$ (3,598.39)	$ (5,063.79)	$ (3,333.77)	$ (3,349.30)	$ (2,029.10)	$ 142.72		$ (17,231.63)
Fuel & Purchased Power Adjustment {[(FC + PP + E - OSSR - REC - B) * J] * 0.95} + T + I + P	(FPA)	$ (2,042,406.49)	$ (1,253,637.06)	$ (485,333.02)	$ (668,976.56)	$ (23,831.34)	$ 1,739,689.17	$ (1,281,913.59)	$ (4,016,408.89)
For Recovery Period									
Forecasted NSI kwh	a								2,729,173,000
Forecasted Missouri Retail kwh Sales	b								2,112,016,000
Forecasted Total System kwh Sales	c								2,553,217,000
Forecasted Missouri Ratio									82.72%
Forecasted Missouri NSI kwh (S)=a*(b/c)	(S)								2,257,566,452
Cost Adjustment Factor (FAR=FPA./S)	(FAR)								-0.00178
FAR - Primary and above									-0.00186
Primary Expansion Factor	1.0464								
FAR - Secondary									-0.00190
Secondary Expansion Factor	1.0657								

BUDGET DATA ON THE "RECOVERY" TAB NEEDS TO BE FOR THE CURRENT, FORWARD 6 MONTHS.